

Xerox® WorkCentre® 5945 Family Multifunction Printer Service Manual



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About This Manual

This manual is part of a multinational service documentation system that is structured in the standard Xerox service manual format.

Organization

The service manual is the document used as the primary information source for repairing and maintaining this family of products and is available as EDOC on a CDROM, or in PDF format on a CDROM. The information within the manual is divided into an introduction and 8 other sections.

Section 1 Service Call Procedures

This section is used to start and complete a service call. The procedures in this section will either direct you to a Repair Analysis Procedure (RAP), or identify a faulty component or sub-assembly.

Section 2 Status Indicator Repair Analysis Procedures

This section contains the Repair Analysis Procedures (RAPs) and checkouts necessary to diagnose, isolate and repair faults other than image quality faults.

Section 3 Image Quality

This section contains the Image Quality Repair Analysis Procedures (IQ RAPs), checkouts and setup procedures necessary to diagnose, isolate and repair image quality faults.

Section 4 Repairs/Adjustments

This section contains the instructions for removal, replacement, and adjustment of parts within the machine.

Section 5 Parts List

This section contains the detailed and illustrated spare parts list. Any part that is spared or that must be removed to access a spared part is illustrated.

Section 6 General Procedures/Information

This section contains all other procedures, product specifications and general information. It also contains Tag/MOD information. The abbreviations used in this Manual are in GP 40 Glossary of Terms, Acronyms and Abbreviations.

Section 7 Wiring Data

This section contains PJ Locations and Wiring Diagrams.

Section 8 Accessories

This section contains details of any accessories that the machine may have.

Publication Comments Sheet

A Publication Comment Sheet is provided at the rear of the PDF version of the manual.

How To Use This Manual

Always start with the Service Call Procedures, Section 1. Perform Initial Actions and verify the problem, then follow the directions given.

How to Differentiate Between Machine Variants

When a procedure, parts list description or other reference is unique across different speeds of machine, the appropriate speed will be quoted. For example, 45 ppm or 55 ppm. Any artwork will also be specific.

NOTE: This manual services all configurations of the machine. Ignore references to options not installed on the machine.

Warnings, Cautions And Notes



A warning is used whenever an operating or maintenance procedure, practice, condition or statement, if not strictly observed, could result in personal injury.

A translated version of all warnings is in Translation of Warnings.



A caution is used whenever an operation or maintenance procedure, practice, condition or statement, if not strictly observed, could result in damage to the equipment.

NOTE: A note is used where it is essential to highlight a procedure, practice, condition or statement.

Remote Control Panel

The WorkCentre 5945/5955 is equipped with a remote control panel feature to allow remote user access to the UI.

The remote control panel feature enables users the ability to:

- Remotely view the local UI display graphics.
- Operate both hard and soft buttons on the control panel.

The remote control panel on the remote user PC mimics the device control panel enabling the remote user to operate the device as though they were standing at the machine. Remote access to service mode (diagnostics) is also possible. Refer to GP 15 Remote Diagnostics.

Change History

This page gives information on major changes to the service manual. Go to the relevant update.

- BUS Update August 2014
- BUS Update February 2015
- Bus Update August 2015
- Bus Update February 2016

BUS Update August 2014

- SCP 2 Call Actions
- SCP 3 Service Call Procedures
- SCP 5 Final Actions
- 301B 0V Distribution RAP
- 301E +5V and +5VSB Distribution RAP
- 301G +24V Distribution RAP
- 301J Power On and LVPS Control Signal RAP
- 302A Touch Screen Failure RAP
- 303-346-00, 303-347-00 Single Board Controller PWB to UI Error RAP
- 305-940-00, 305-966-00 SPDH No Original RAP
- 310-153-00, 310-163-00 Lead Edge Late to Post Fuser Sensor RAP
- 310-154-00, 310-164-00 Trail Edge Late from Post Fuser Sensor RAP
- 310-170-00 Lead Edge Late to Horizontal Transport Entry Sensor RAP
- 310-171-00 Trail Edge Late to Horizontal Transport Entry Sensor RAP
- 310-320-00 Fuser Control Failure RAP
- 310-330-00, 310-340-00 Fuser Warm Up Failure RAP
- 310-330, 310-340-00 Fuser Warm Up Failure RAP
- 310-400-00 Fuser CRUM Communication Failure RAP
- 312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP
- 312-043-00-110, 312-046-00-110 Hole Punch Operation Failure RAP
- 312-125-00-110, 312-126-00-110, 312-199-00-110 Paper Entry Jam RAP
- 312-127-00-110 Sheet Late to Hole Punch RAP
- 312-151-00-110, 312-152-00-110 Sheet Late to Bin 1 RAP
- 312-171-00-110, 312-172-00-110 Paper Exiting to Bin 0 RAP
- 312-198-00-110 Finisher Stray Sheet Detected RAP
- 312-310-00-110, 312-312-00-110, 312-313-00-110 Interlocks RAP
- 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP
- 312-371-00-110, 312-372-00-110, 312-378-00-110 Staple Head Unit Movement Failure RAP
- 312-392-00-110, 312-393-00-110, 312-394-00-110 Front Tamper Move Failure RAP
- 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP
- 312-462-00-110 Bin 1 Movement Failure RAP
- 312A-110 Chad Bin Present and Bin Full RAP
- 312B-110 Bin 1 Overload RAP

- 312C-110 2K LCSS Initialization Failure RAP
- 312D-110 2K LCSS Power Distribution RAP
- 312-125-00-150, 312-126-00-150, 312-199-00-150 Paper Entry Jam RAP
- 312-151-00-150, 312-152-00-150 Sheet Late to Bin 1 RAP
- 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP
- 312C-150 LVF BM Initialization Failure RAP
- 312D-150 LVF BM Power Distribution RAP
- 341-301 CRUMs Bus Communications Error RAP
- 371-500-00 Tray 1 Open During Run RAP
- 372-500-00 Tray 2 Open During Run RAP
- 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP
- 373-500-00 Tray 3 Open During Run RAP
- 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP
- 374-500-00 Tray 4 Open During Run RAP
- 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP
- 381-152-00 Trail Edge Late from Registration sensor RAP
- 381-155-00 Lead Edge Late to Registration Sensor From Bypass Tray
- 381-159-00 Lead Edge Late to HCF Exit Sensor from Tray 3 RAP
- 381A Paper Feed Retries RAP
- 391-365-00 Humidity Sensor Failure RAP
- 391-375-00 Ambient Temperature Sensor Failure RAP
- 391A HVPS RAP
- 392-400-00 Print Cartridge CRUM Communication Failure RAP
- 393-401-00 Toner Cartridge Missing RAP
- OF1 Unusual Noise RAP
- OF3 Dead Machine RAP
- OF4a Status Codes in Numerical Order
- OF4b Status Messages in Alphabetical Order
- OF6 Air Systems RAP
- OF7 IOT PWB Diagnostics RAP
- IQ8 IOT Skew RAP
- REP 10.7 Horizontal Transport Motor
- REP 60.15 LED Print Head Module
- REP 80.16 Bypass Tray Retard Roll Assembly
- REP 80.4 Registration Transport Assembly, Registration Roll and Registration Sensor
- REP 80.20 Tray 3 Paper Feed Assembly
- REP 80.21 Tray 4 Paper Feed Assembly
- ADJ 40.1 Machine Lubrication
- ADJ 60.1 Scanner Cleaning Procedure
- GP 4 Machine Software
- GP 8 Special Tools and Consumables
- GP 40 Glossary of Terms, Acronyms and Abbreviations
- dC330 Component Control

- PJ Locations, 2K LCSS PWB
- Wiring Diagram 4
- Wiring Diagram 7
- Wiring Diagram 9
- Wiring Diagram 12
- Wiring Diagram 18

The following procedures are new:

- REP 70.18 Bypass Tray Harness
- GP 42 How to Disable the Toner Cartridge CRUM RFID Reader
- TAG 002
- TAG 003
- TAG 004
- TAG 013

BUS Update February 2015

- · Health and Safety Incident reporting
- SCP 3 Fault Analysis
- SCP 4 Subsystem Maintenance
- 302A Touch Screen Failure RAP
- 310-153-00, 310-163-00 Lead Edge Late to Post Fuser Sensor RAP
- 310-154-00, 310-164-00 Trail Edge Late from Post Fuser Sensor RAP
- 310-170-00 Lead Edge Late to Horizontal Transport Entry Sensor RAP
- 310-702-00 Offset Motor Fault RAP
- 310-330-00, 310-340-00 Fuser Warm Up Failure RAP
- 312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP
- 312-043-00-110, 312-046-00-110 Hole Punch Operation Failure RAP
- 312-125-00-110, 312-126-00-110, 312-199-00-110 Paper Entry Jam RAP
- 312-127-00-110 Sheet Late to Hole Punch RAP
- 312-151-00-110, 312-152-00-110 Sheet Late to Bin 1 RAP
- 312-171-00-110, 312-172-00-110 Paper Exiting to Bin 0 RAP
- 312-198-00-110 Finisher Stray Sheet Detected RAP
- 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP
- 312-371-00-110, 312-372-00-110, 312-378-00-110 Staple Head Unit Movement Failure RAP
- 312-392-00-110, 312-393-00-110, 312-394-00-110 Front Tamper Move Failure RAP
- 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP
- 312-462-00-110 Bin 1 Movement Failure RAP
- 312A-110 Chad Bin Present and Bin Full RAP
- 312B-110 Bin 1 Overload RAP
- 312D-110 2K LCSS Power Distribution RAP
- 312E-110 Staple Head Operation Failure RAP
- 312G-110 This RAP Has Been Removed
- 312L-110 Stapler Priming Failure RAP

- 312-043-00-150, 312-046-00-150 Hole Punch Operation Failure RAP
- 312-340-00-150, 312-342-00-150 Ejector Movement Failure RAP
- 362-777-00, 362-778-00 Motor Communications Failure RAP
- 366A Side 2 LED Exposure Lamp Failure RAP
- 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP
- 381-146-00 Lead Edge Late to Tray 4 Feed Sensor RAP
- 381-155-00 Lead Edge Late to Registration Sensor from the Bypass Tray RAP
- 381-159-00 Lead Edge Late to HCF Exit Sensor from Tray 3 RAP
- 381-162-00 Trail Edge Late from Registration Sensor Duplex Mode RAP
- 381-167-00 Lead Edge Late to Tray 4 Exit Sensor RAP
- 381-190-00 Lead Edge Late to Registration Sensor from Tray 1 RAP
- 381-191-00 Lead Edge Late to Registration Sensor from Tray 2 RAP
- 381-192-00 Lead Edge Late to Registration Sensor from Tray 3 RAP
- 381-193-00 Lead Edge Late to Registration Sensor from Tray 4 RAP
- 381-194-00 Lead Edge Late to TAR 1 Sensor from Tray 2 RAP
- 381-195-00 Lead Edge Late to TAR 1 Sensor from Tray 3 RAP
- 381-196-00 Lead Edge Late to TAR 1 Sensor from Tray 4 RAP
- 381-197-00 Lead Edge Late to TAR 2 Sensor from Tray 3 RAP
- 381-198-00 Lead Edge Late to TAR 2 Sensor from Tray 4 RAP
- 381-199-00 Lead Edge Late to HCF Exit Sensor from Tray 4 RAP
- 383-155-00, 383-156-00 Duplex Sensor RAP
- OF1 Unusual Noise RAP
- OF2 POST Error RAP
- OF4a Status Codes in Numerical Order
- OF4b Status Messages in Alphabetical Order
- OF12 False Print Cartridge End of Life RAP
- IQ2 IOT IQ Defects RAP
- IQ3 Xerographic RAP
- IQ10 Copy Quality Improvement RAP
- REP 5.4 Input Tray Assembly
- REP 5.9 Length Sensors
- REP 10.1 Inverter Assembly
- REP 10.2 Exit Drive Assembly
- REP 10.7 Horizontal Transport Motor and Drive Belt
- REP 12.14-110 2K LCSS PWB
- REP 12.19-150 Back Stop Assembly, Left Guide Assembly and Static Eliminators
- REP 60.3 Top Cover Assembly, Fan filter Cover and Fan Filter
- REP 60.6 Side 2 Scan Assembly and Side 2 Reg Sensor
- REP 70.18 Bypass Tray Harness and Bypass Elevate Tray Assembly
- REP 80.8 TAR/Bypass Tray Motor and Transport Drive Belt Kit
- REP 80.20 Tray 3 Paper Feed Assembly
- REP 80.21 Tray 4 Paper Feed Assembly
- ADJ 40.1 Machine Lubrication

- ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure
- ADJ 80.2 Simplex and Duplex Buckle Timing
- ADJ 90.1 Xerographics Cleaning
- GP 3 Service Information
- GP 4 Machine Software
- GP 15 Remote Diagnostics
- GP 20 Paper and Media Size Specifications
- GP 39 Consumables Compatibility Information
- GP 42 How to Disable the Toner Cartridge CRUM RFID Reader
- dC131 NVM Read/Write
- Processor Tags
- SPDH Tags

The following procedures are new:

- 316-718-00 to 316-726-00 Hard Disk Faults RAP
- OF16 USB Keyboard RAP
- REP 80.32 Tray 3 or Tray 4 Feed Clutch
- REP 80.33 Left Door Harness Set

Bus Update August 2015

- SCP 3 Fault Analysis
- SCP 4 Subsystem Maintenance
- 301-300-00 Front Door Open Entry RAP
- 301-305-00 Left Door Open Entry RAP
- 301B 0V Distribution, +5V Return, +24V Return RAP
- 301C AC Power RAP
- 301E +5V and +5VSB Distribution RAP
- 301G +24V Distribution
- 301H Short Circuit and Overload RAP
- 301K Sleep Mode RAP
- 305-335-00, 305-336-00 SPDH Takeaway Sensor Paper Jam RAP
- 310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP
- 310-320-00 Fuser Control Failure RAP
- 310A Centre Output Tray Poor Stacking RAP
- 310-330-00, 310-340-00 Fuser Warm Up Failure RAP
- 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP
- 312-340-00-150, 312-342-00-150 Ejector Movement Failure RAP
- 316-000-00 to 316-016-99 Network Faults 1 RAP
- 316-603-11 to 316-608-105 Network Faults 4 RAP
- 316-626-00 to 316-635-99 Network Faults 8 RAP
- 316-649-35 to 316-668-95 Network Faults 10 RAP
- 316-669-28 to 316-730-66 Network Faults 11 RAP
- 316-751-00 to 316-753-95 Network Faults 13 RAP
- 316-754-09 to 316-756-93 Network Faults 14 RAP

- 316-757-09 to 316-760-99 Network Faults 15 RAP
- 316-761-09 to 316-765-93 Network Faults 16 RAP
- 316-766-09 to 316-772-95 Network Faults 17 RAP
- 316-780-00 to 316-789-47 Network Faults 19 RAP
- 316-790-09 to 316-799-47 Network Faults 20 RAP
- 316-810-00 to 316-839-47 Network Faults 22 RAP
- 316-880-47 to 316-929-19 Network Faults 24 RAP
- 316-930-19 to 316-971-19 Network Faults 25 RAP
- 316-975-19 to 316-989-19 Network Faults 26 RAP
- 320-320-00 Fax Fault Not Cleared by Reset RAP
- 320-327-00, 320-332-00, 320-340-00 Fax Network Line 2 Fault RAP
- 320A Fax Entry RAP
- 362-450-00 to 362-472-00, 362-781-00 Scanner Calibration Faults RAP
- 362-477-00 to 362-481-00, 362-782-00, 362-785-00, 362-786-00 Timing Errors RAP
- 371-500-00 Tray 1 Open During Run RAP
- 372-500-00 Tray 2 Open During Run RAP
- 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP
- 374-100-00, 374-217-00 Elevator Lift Failure Entry RAP
- 374-500-00 Tray 4 Open During Run Entry RAP
- 374A Tray 4 False Low Paper Level RAP
- 374B Tray 4 Out of Paper RAP
- 381-146-00 Lead Edge Late To Tray 4 Feed Sensor Entry RAP
- 381-151-00 Lead Edge Late to Registration Sensor RAP
- 381-155-00 Lead Edge Late to Registration Sensor from the Bypass Tray RAP
- 381-161-00 Lead Edge Late to Registration Sensor Duplex Mode RAP
- 381-167-00 Lead Edge Late to Tray 4 Exit Sensor Entry RAP
- 381-190-00 Lead Edge Late to Registration Sensor from Tray 1 RAP
- 381-191-00 Lead Edge Late to Registration Sensor from Tray 2 RAP
- 381-192-00 Lead Edge Late to Registration Sensor from Tray 3 RAP
- 381-193-00 Lead Edge Late to Registration Sensor from Tray 4 RAP
- 381-196-00 Lead Edge Late to TAR 1 Sensor from Tray 4 RAP
- 381-198-00 Lead Edge Late to TAR 2 Sensor from Tray 4 RAP
- 381-199-00 Lead Edge Late to HCF Exit Sensor from Tray 4 RAP
- 393-390-00 Toner Cartridge Empty RAP
- OF4a Status codes Table 4
- OF4a Status codes Table 8
- OF4a Status codes Table 10
- OF4a Status codes Table 13
- OF4a Status codes Table 18
- OF4b Status messages Table 1
- OF4b Status messages Table 2
- OF4b Status messages Table 3
- OF4b Status messages Table 4

- OF4b Status messages Table 1 A to F
- OF4b Status messages Table 4 S to X
- IQ1 Image Quality Entry RAP
- IQ2 IOT IQ Defects RAP
- IQ3 Xerographic RAP
- IQ7 Document Glass and Scanner IQ Defects RAP
- IQ10 Copy Quality Improvement RAP
- IQ11 Print Quality Improvement RAP
- IQS 5 Skew
- IQS 6 Copy / Print Defects
- IQS 7 Registration
- REP 1.8 Front Door Interlock Removal (W/O TAG 015)
- REP 1.9 Left Door Interlock Removal (W/O TAG 015)
- REP 10.8 Jam Clearance Paper Guide & Hinge Assembly
- REP 12.7-110 Hole Punch Unit, Motor and Sensors
- REP 12.7-150 Hole Punch Unit, Motor and Sensors
- REP 40.1 Main Drive Module
- REP 70.15 Tray 4 Elevator Motor (W/OTAG 009)
- REP 80.21 Tray 4 Paper Feed Assembly
- REP 80.33 Left Door Harness Set
- ADJ 12.3-110 Not Used
- ADJ 12.3-150 Not Used
- ADJ 40.1 Machine Lubrication
- GP 4 Machine Software
- GP 30 Tray 4 Control PWB Test Points
- dC131 Table1 IOT NVM ID 500-001 to 500-903
- dC131 Table 2 IOT NVM ID 501-160 to 501-387
- dC131 Table 6 IOT NVM ID 505-001 to 505-033
- dC131 Table 9 IOT NVM ID 510-001 to 512-002
- dC131 Table 14 CCS NVM ID 604-241 to 604-999
- dC131 Table 19 CCS NVM ID 609-001 to 609-468
- dC131 Table 22 CCS NVM ID 616-001 to 616-341
- Wiring Diagram Introduction
- Wiring Diagram 1
- Wiring Diagram 6
- Wiring Diagram 8
- Wiring Diagram 9
- Wiring Diagram 11
- Wiring Diagram 18
- PJ Locations -Table 7, Figures 5 & 15

The following procedures are new:

- 301-300A-00 Front Door Open RAP (W/OTAG 007, TAG 008, TAG 015)
- 301-300B-00 Front Door Open RAP (W/TAG 007, TAG 008, TAG 015)

- 301-305A-00 Left Door Open RAP (W/OTAG 007, TAG 008, TAG 015)
- 301-305B-00 Left Door Open RAP (W/TAG 007, TAG 008, TAG 015)
- 303-315-00 DC Platform Internal Interface Fault RAP
- 312-492-00-110 Finisher Communication Failure
- 312-492-00-150 Finisher Communication Failure
- 370B Tray 1 and Tray 2 Wrong Size Paper RAP
- 374-100A-00, 374-217A-00 Tray 4 Elevator Lift Failure RAP (W/O TAG009)
- 374-100B-00, 374-217B-00 Tray 4 Elevator Lift Failure RAP (W/TAG 009)
- 374-500A-00 Tray 4 Open During Run RAP (W/O TAG 009)
- 374-500B-00 Tray 4 Open During Run RAP (W/TAG 009)
- 381-146A-00 Lead Edge Late To Tray 4 Feed Sensor RAP
- 381-146B-00 Lead Edge Late To Tray 4 Feed Sensor RAP
- 381-167A-00 Lead Edge Late to Tray 4 Exit Sensor RAP
- 381-167B-00 Lead Edge Late to Tray 4 Exit Sensor RAP
- 381-222-00 TAR Gear NVM Changed RAP
- 393-974-00, 393-987-00 Unknown Toner Cartridge RAP
- REP 1.12 Front Door Interlock Removal (W/TAG 015)
- REP 1.13 Left Door Interlock Removal (W/TAG 015)
- REP 70.19 Tray 4 Elevator Motor (W/TAG 009)
- REP 80.34 Bypass Tray Mylar Retard Shield
- REP 80.35 Left Door Fan 1 and Fan 2
- ADJ 80.4 Bypass Tray Nip Pressure
- ADJ 80.5 Tray 4 Closing Alignment
- TAG 007
- TAG 008
- TAG 009
- TAG 010
- TAG 015
- TAG D-004
- TAG X001
- TAG X002
- Wiring Diagram 30
- Wiring Diagram 31

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- 301A Ground Distribution RAP
- 301L LVPS RAP
- 305-335-00, 305-336-00 SPDH Takeaway Sensor Paper Jam RAP
- 310-330-00, 310-340-00 Fuser Warm Up Failure RAP
- 316D Wireless Connectivity RAP
- 322-352-00 to 322-353-01 Serial Number Fault RAP
- 362-777-00, 362-778-00 Motor Communications Failure RAP
- 373-500-00 Tray 3 Open During Run RAP

- 374-500A-00 Tray 4 Open During Run RAP
- 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP
- 381-159-00 Lead Edge Late to HCF Exit Sensor from Tray 3 RAP
- 381-199-00 Lead Edge Late to HCF Exit Sensor from Tray 4 RAP
- OF15 Xerox Secure Access RAP
- IQ1 Image Quality Entry RAP
- IQ2 IOT IQ Defects RAP
- REP 80.22 HCF Transport Motor
- GP 4
- TAG 014
- TAG D-004
- TAG X-002

Mod/Tag Identification

Figure 1 shows the Mod/Tag identification symbols.



These with tag symbols are used to identify the components or configurations that are part of a machine change covered



by this tag number.



These without tag symbols are used to identify the components or configurations that are used when this tag is not fitted.



W-1-1148-A

Figure 1 Mod/Tag identification symbols

Voltages Resistances and Tolerances

For AC power specifications, refer to GP 22 Electrical Power Requirements.

DC Voltage Levels and Tolerances

DC voltages should be measured between an available test point and a machine ground. Table 1 shows the range of the common voltages.

Table 1 DC Voltage Levels

| _ | Voltage Tolerance | |
|---------------------|--------------------|--|
| Nominal Voltage | Range | RAP Reference |
| 0V | 0.00 to 0.10V | 301B 0V Distribution RAP |
| +3.3V standby | +3.23V to +3.43V | 301J Power On and LVPS Control Signals RAP |
| +3.3V | +3.23V to +3.43V | 301D +3.3V Distribution RAP. See notes below |
| +5V and +5V standby | +4.75V to +5.25V | 301E +5V and +5VSB Distribution RAP |
| +12V | +11.4V to +12.6V | 301F +12V Distribution RAP |
| +24V | +23.28V to +25.73V | 301G +24V Distribution RAP |

Non-standard voltage levels will be quoted on the relevant circuit diagram. All other voltage levels are plus or minus 10%.

Resistance Tolerances

All resistance measurement tolerances are plus or minus 10%, unless otherwise stated in the procedure.

DC Signal Nomenclature

Figure 1 shows the signal nomenclature used in this manual.

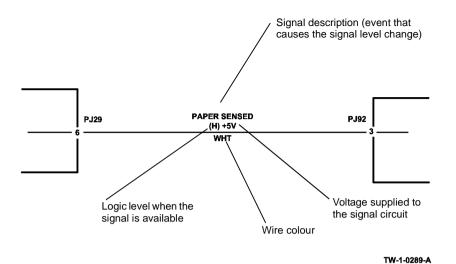


Figure 1 Signal Nomenclature

Table 2 shows the signal tolerances.

Table 2 Signal tolerances

| Signal Voltage | (H) Logic Level | (L) Logic Level |
|----------------|-------------------|-----------------|
| +5V | +3.85V or greater | At or near 0.8V |
| +3.3V | +2V or greater | At or near 0.8V |

Non standard signal tolerances will be quoted on the relevant circuit diagram.

NOTE: The logic level shown with the signal name will be the actual signal as measured with a service meter. This will not necessarily be the same as the logic state shown on the diagnostic screen.

Samples of RAP Reference Text

Throughout the manual there are linked references that extend the diagnostic procedure or add more information.

Go to Flag 1. Check Q08-300.

NOTE: This links to a particular part of the circuit diagram within a RAP.

Refer to:

GP 11 How to Check a Sensor.

NOTE: This links to General Procedures information.

Figure 1, P/J6, IOT PWB

NOTE: The Figure links to the relevant illustration. The P/J links to the connector location on the PWB in a circuit diagram. The PWB links to the pin layout on the PWB, referenced in the Wiring Diagram section.

301D +3.3V Distribution RAP.

NOTE: This links to a RAP.

- Install new components as necessary:
 - Tray 1 empty sensor, PL 80.26 Item 7.

NOTE: This links to the parts list. If installation of the new component is simple, the parts list artwork is sufficient to show how the component is assembled in the machine. If installation of the new component is not simple, the parts listing will contain cross references to repair procedures and adjustments, as necessary.

Symbols Used in Circuit Diagrams

Refer to Figure 2.

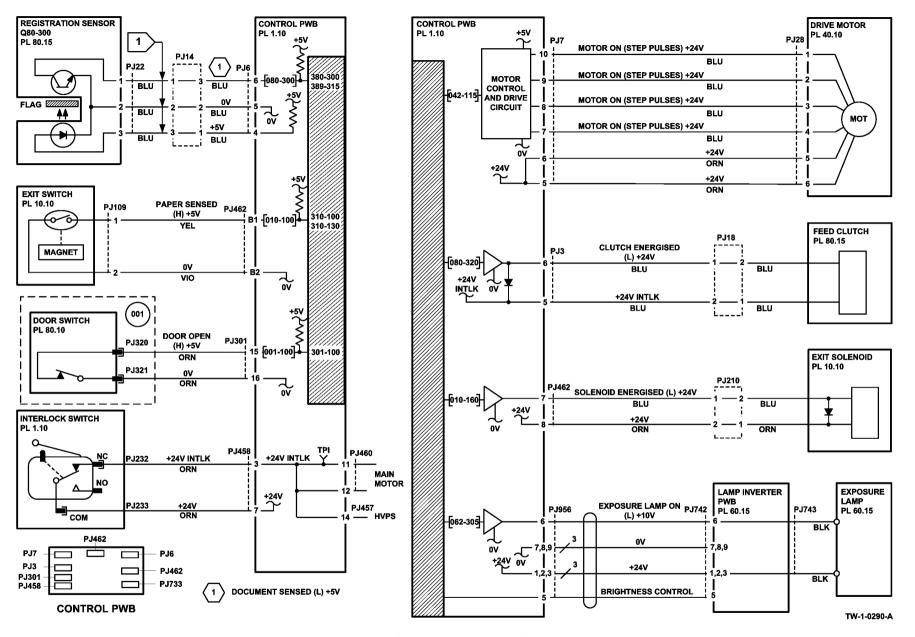


Figure 2 Symbols used in circuit diagrams

Connector Pin Numbers in Circuit Diagrams

The connector pin numbers shown in the circuit diagrams depict the location of the pins as marked on the PWB. If the pin numbers marked on a harness connector differ, the PWB pin numbers take precedence.

Safety Information

The WARNING that follows is for general guidance when live working.



Do not work in a confined space. 1m (39 inches) space is needed for safe working.

Safety Icons

The safety icons that follow are displayed on the machine:

ESD Caution Symbol





Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Location Arrow Symbol

The location arrow symbol points to the location to install, to gain access to, or to release an object.



Hot Surface Symbol

This symbol indicates hot surfaces. Take care when servicing the machine.



Lethal Voltage Symbol

This symbol indicates potentially lethal voltages. Take care when servicing the machine when the power cord is connected.



Toner Cartridge

The product contains a toner cartridge that is recyclable. Under various state and local laws, it may be illegal to dispose of the cartridge into the municipal waste. Check with the local waste officials for details on recycling options or the proper disposal procedures.

Fuses



Do not install a fuse of a different type or rating. Installing the wrong type or rating of fuse can cause overheating and a risk of fire.

Part Replacement

Only use genuine Xerox approved spare parts or components to maintain compliance with legislation and safety certification. Also refer to GP 26 Restriction of Hazardous Substances (RoHS).

Disassembly Precautions

Do not leave the machine with any covers removed at a customer location.

Reassembly Precautions

Use extreme care during assembly. Check all harnesses to ensure they do not contact moving parts and do not get trapped between components.

General Procedures

Observe all warnings displayed on the machine and written in the service procedures. Do not attempt to perform any task that is not specified in the service procedures.

Health and Safety Incident reporting

I. Summary

This section defines requirements for notification of health and safety incidents involving Xerox products (equipment and materials) at customer locations.

II. Scope

Xerox Corporation and subsidiaries worldwide.

III. Objective

To enable prompt resolution of health and safety incidents involving Xerox products and to ensure Xerox regulatory compliance.

IV. Definitions

Incident:

An event or condition occurring in a customer account that has resulted in injury, illness or property damage. Examples of incidents include machine fires, smoke generation, physical injury to an operator or service representative. Alleged events and product conditions are included in this definition.

V. Requirements

Initial Report:

- Xerox organizations shall establish a process for individuals to report product incidents to Xerox Environment Health and Safety within 24 hours of becoming aware of the event.
- The information to be provided at the time of reporting is contained in Appendix A (Health and Safety Incident Report involving a Xerox product).
- 3. The initial notification may be made by any of the methods that follow:
 - For incidents in North America and Developing Markets West (Brazil, Mexico, Latin American North and Latin American South):
 - Email Xerox EH&S at: usa.xerox.ehs@xerox.com.
 - Fax Xerox EH&S at: 1-585-216-8817 [intelnet 8*219-8817].
 - For incidents in Europe and Developing Markets East (Middle East, Africa, India, China and Hong Kong):
 - Email Xerox EH&S at: ehs-europe@xerox.com.
 - Fax Xerox EH&S at: +44 (0) 1707 353914 [intelnet 8*668 3914].

NOTE: If sending a fax, please also send the original via internal mail.

Responsibilities for resolution:

- Business Groups/Product Design Teams responsible for the product involved in the incident shall:
 - Manage field bulletins, customer correspondence, product recalls, safety retrofits.
 - b. Fund all field retrofits.
- 2. Field Service Operations shall:
 - Preserve the Xerox product involved and the scene of the incident inclusive of any associated equipment located in the vicinity of the incident.

- Return any affected equipment/part(s) to the location designated by Xerox EH&S and/or the Business Division.
- c. Implement all safety retrofits.
- Xerox EH&S shall:
 - Manage and report all incident investigation activities.
 - b. Review and approve proposed product corrective actions and retrofits, if necessary.
 - c. Manage all communications and correspondence with government agencies.
 - d. Define actions to correct confirmed incidents.

VI. Appendices

The Health and Safety Incident Report involving a Xerox Product (Form # EH&S-700) is available in the locations that follow:

- On electronic documentation (EDOC), located in the Library.
- In the hardcopy, located at the end of the manual.

Translation of Warnings



A warning is used whenever an operating or maintenance procedure, practice, condition or statement, if not strictly observed, could result in personal injury.

DANGER: Une note Danger est utilisée chaque fois qu'une procédure d'utilisation ou de maintenance peut être cause de blessure si elle n'est pas strictement respectée.

AVVERTENZA: Un segnale di avvertenza è utilizzato ogni volta che una procedura operativa o di manutenzione, una pratica, una condizione o un'istruzione, se non strettamente osservata, potrebbe causare lesioni personali.

VORSICHT: Weist darauf hin, dass ein Abweichen von den angeführten Arbeits- und Wartungsanweisungen gesundheitliche Schäden, möglicherweise sogar schwere Verletzungen zur Folge haben kann.

AVISO: Un aviso se utiliza siempre que un procedimiento de operación o mantenimiento, práctica o condición puede causar daños personales si no se respetan estrictamente.



Do not work in a confined space. 1 m (39 inches) space is needed for safe working.

DANGER: Ne pas travailler dans un espace restreint. 1 mètre d'espace est nécessaire pour un dépannage en toute sécurité.

AVVERTENZA: Non lavorare in uno spazio limitato; è necessario uno spazio di almeno un metro attorno alla macchina per la sicurezza dell'operatore.

VORSICHT: Nur mit ausreichendem Bewegungsspielraum (1 m) arbeiten.

AVISO: No trabaje en un espacio reducido. Se necesita 1 metro de espacio para trabajar con seguridad.



Do not install a fuse of a different type or rating. Installing the wrong type or rating of fuse can cause overheating and a risk of fire.

DANGER: Ne pas installer de fusible de type ou de calibre différent. Il existe un risque de surchauffe voire d'incendie.

AVVERTENZA: Per evitare rischi di surriscaldamento o d'incendio, non installare un fusibile di tipo o carica diversi da quelli esistenti.

VORSICHT: Keine Sicherungen anderer Art oder anderer Leistung auf dem IOT-PWB installieren - Überhitzungs- und Brandgefahr.

AVISO: No instale un fusible de potencia o tipo distinto. Un fusible de potencia o tipo distinto puede producir sobrecalentamiento y el riesgo de incendio.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

DANGER : Mettez la machine hors tension. Reportez-vous à GP 14. Déconnectez le cordon d'alimentation de l'alimentation du client lorsque vous réalisez des tâches qui ne nécessitent pas d'électricité. L'électricité peut être à l'origine de blessures, voire d'un accident mortel. Les pièces amovibles peuvent être à l'origine de blessures.

AVVERTENZA: Spegnere la macchina. Vedere GP 14. Scollegare il cavo di alimentazione dall'alimentatore quando si esequono attività che non richiedono elettricità. L'elettricità può causare morte o lesioni personali. Le parti in movimento possono causare lesioni personali.

VORSICHT: Schalten Sie die Stromversorgung der Maschine ab. Siehe auch GP 14. Ziehen Sie das Stromkabel ab, wenn Sie Aufgaben ausführen, für die keine Stromversorgung benötigt wird. Stromschläge können Todesfällen oder Verletzungen verursachen. Bewegliche Teile können zu Verletzungen führen.

AVISO: Apaque la electricidad de la máquina. Consulte el GP 14. Desconecte el cable de alimentación eléctrica de la toma de pared mientras esté realizando tareas que no necesiten corriente. La electricidad puede causar daños o la muerte. Las partes móviles pueden causar daños.



Do not switch on the electricity to the machine while a ground circuit is disconnected. Ground circuits ensure that the machine remains safe during a fault condition.

DANGER: Ne pas mettre la machine sous tension si un circuit de mise à la masse est déconnecté. Les circuits de mise à la masse permettent de garantir la sécurité de la machine lors d'un incident.

AVVERTENZA: Non accendere la macchina se uno dei conduttori di terra non è connesso. In caso di quasti elettrici, tali conduttori garantiscono la sicurezza del sistema.

VORSICHT: Stromzufuhr zum Gerät nicht einschalten, wenn keine Erdung gegeben ist.

AVISO: No encienda la máquina mientras esté deconectado algún circuito de tierra. Los circuitos de tierra mantienen la seguridad de la máquina en las situaciones de averías o errores.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury. DANGER: Prendre des précautions lors du relevé de la tension de la prise de courant alternatif. L'électricité peut entraîner des blessures graves voire mortelles.

AVVERTENZA: Procedere con cautela durante la misurazione della tensione CA della rete. L'elettricità può causare infortuni o morte.

VORSICHT: Bei der Netzspannungsprüfung stets vorsichtig vorgehen

AVISO: Tenga cuidado al medir la tensión de la línea de alimentación de corriente alterna. La electricidad puede causar lesiones e incluso la muerte.



Ensure that the ground plate is located between the Fax PWB and the front cover. The ground plate provides a ground path for lightning strikes. Electricity can cause death or iniurv.

DANGER: Assurez-vous que la plaque de masse est positionnée entre la carte de câblage imprimé (PWB) du fax et le panneau avant. La plaque de masse fournit un chemin de mise à la terre pour la foudre. L'électricité peut tuer ou blesser.

AVVERTENZA: Assicurarsi che la piastra di messa a terra venga posizionata tra la scheda di collegamenti stampata (PWB) del fax e la copertura anteriore. Tale piastra fornisce un percorso di messa a terra per la protezione contro le scariche atmosferiche. L'elettricità può causare lesioni o morte.

VORSICHT: Sicherstellen, dass sich die Grundplatte zwischen Fax PWB und vorderer Abdeckung befindet. Die Grundplatte dient als Blitzableiter. Elektrischer Strom kann lebensgefährlich sein.

AVISIO: Asegúrese de que la placa de conexión a tierra esté situada entre la tarjeta del fax y la cubierta frontal. La placa de conexión a tierra facilita una ruta de conexión a tierra para los rayos. La electricidad puede proyocar lesiones graves e incluso mortales.



Take care during this procedure. Motors will become hot during normal operation.

DANGER: Exécuter cette procédure avec précaution. Les moteurs peuvent devenir très chauds en fonctionnement normal.

AVVERTENZA: Procedere con cautela durante questa procedura. I motori si riscaldano molto durante il funzionamento.

VORSICHT: Bei diesem Vorgang vorsichtig vorgehen, da Motoren im Normalbetrieb heiß werden können.

AVISO: Tenga cuidado al efectuar este procedimiento. Los motores alcanzan altas temperaturas durante su funcionamiento normal.



Do not touch the fuser while it is hot.

DANGER: Ne pas toucher au four pendant qu'il est encore chaud.

AVVERTENZA: Non toccare il fonditore quando è caldo.

VORSICHT: Fixierbereich erst berühren, wenn dieser abgekühlt ist.

AVISO: No toque el fusor mientras está caliente.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

DANGER: Attention à ne pas faire tomber la trieuse/agrafeuse petite capacité. Elle n'est pas stable lorsqu'elle est détachée de la machine. Ne pas montrer au client comment détacher la trieuse/agrafeuse.

AVVERTENZA: Fare attenzione a non destabilizzare il modulo della pinzatrice/impilatore da 2000 fogli. Quando è sganciato dalla macchina, il modulo è instabile: non mostrare al cliente come sganciarlo

VORSICHT: Stapler nicht umstoßen. Nach Trennung des Staplers vom Document Centre ist dieser sehr instabil

AVISO: Tenga cuidado de que no se caiga el apilador/grapadora de baja capacidad. Cuando no está acoplada a la máquina es inestable. No le muestre al cliente como desacoplar el apilador/grapadora de baja capacidad.



Take care not to topple the LVF BM. The LVF BM is unstable when undocked from the machine. Do not show the customer how to undock the LVF BM

DANGER : Attention à ne pas faire tomber la plieuse/brocheuse du module de finition petite capacité. Elle n'est pas stable lorsqu'elle est détachée de la machine. Ne pas montrer au client comment détacher la plieuse/brocheuse du module de finition petite capacité.

AVVERTENZA: Fare attenzione a non destabilizzare la stazione libretto della stazione di finitura per bassi volumi. Quando è sganciata dalla macchina, la stazione libretto è instabile: non mostrare al cliente come sganciarla.

VORSICHT: Finisher-Booklet Maker für kleine Auflagen (LVF BM) nicht kippen. Nach der Trennung vom Drucker steht das Endverarbeitungsgerät nicht stabil. Kunden nicht in der Abkopplung des Endverarbeitungsgeräts vom Drucker einweisen.

AVISO: Tenga cuidado de que no se caiga el realizador de folletos de la acabadora de bajo volumen. Cuando no está acoplado a la máquina es inestable. No le muestre al cliente como desacoplar el realizador de folletos de la acabadora de bajo volumen.



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.

DANGER: Ne pas s'approcher du méchanisme de la lame de pliage lors d'une activité à proximité de la plieuse/brocheuse pendant que la machine est sous tension. Ce mécanisme s'active rapidement et avec force.

AVVERTENZA: Quando la macchina è accesa, tenersi a debita distanza dalla lama di piegatura mentre si opera in prossimità della stazione libretto. Il meccanismo della lama di piegatura si attiva con velocità e forza notevoli.

VORSICHT: Wenn bei eingeschaltetem Gerät nahe am Booklet Maker gearbeitet wird, von der Schneidevorrichtung fernhalten. Die Schneidevorrichtung wird schnell und mit viel Druck ausgelöst.

AVISO: Manténgase apartado del mecanismo de la cuchilla hendedora cuando trabaje junto al realizador de folletos si la máquina está encendida. Dicho mecanismo se activa de forma rápida y con mucha fuerza.



Ensure that the ground plate is located between the fax PWB and the front cover. The ground plate provides a ground path for lightning strikes. Electricity can cause death or injury.

DANGER: Assurez-vous que la plaque de masse est positionnée entre la carte de câblage imprimé (PWB) du fax et le panneau avant. La plaque de masse fournit un chemin de mise à la terre pour la foudre. L'électricité peut tuer ou blesser.

AVVERTENZA: Assicurarsi che la piastra di messa a terra venga posizionata tra la scheda di collegamenti stampata (PWB) del fax e la copertura anteriore. Tale piastra fornisce un percorso di messa a terra per la protezione contro le scariche atmosferiche. L'elettricità può causare lesioni o morte.

VORSICHT: Sicherstellen, dass sich die Grundplatte zwischen Fax PWB und vorderer Abdeckung befindet. Die Grundplatte dient als Blitzableiter. Elektrischer Strom kann lebensgefährlich sein.

AVISIO: Asegúrese de que la placa de conexión a tierra esté situada entre la tarjeta del fax y la cubierta frontal. La placa de conexión a tierra facilita una ruta de conexión a tierra para los rayos. La electricidad puede provocar lesiones graves e incluso mortales.



Only use the correct plug to connect a power lead to a power outlet.

DANGER : Toujours utiliser la fiche appropriée pour connecter le cordon d'alimentation à la prise.

AVVERTENZA: Usare la spina corretta per connettere il cavo elettrico alla presa.

VORSICHT: Nur Netzkabel mit dem für die vorhandenen Netzsteckdose geeigneten Netzstecker verwenden.

AVISO: Utilice solamente un enchufe apropiado para conectar el cable de alimentación a la toma de corriente.



Take care during this procedure. Sharp edges may be present that can cause injury.

DANGER : Exécuter cette procédure avec précaution. La présence de bords tranchants peut entraîner des blessures.

AVVERTENZA: Procedere con cautela durante questa procedura. Possono essere presenti oggetti con bordi taglienti pericolosi.

VORSICHT: Bei diesem Vorgang vorsichtig vorgehen, damit keine Verletzungen durch die scharfen Kanten entstehen.

AVISO: Tenga cuidado al efectuar este procedimiento. Puede haber bordes afilados que podrían producir lesiones.



Do not attempt any repairs to the power cord or safety ground harness/conductor.

DANGER : Ne pas tenter de réparer le faisceau/conducteur de mise à la masse ou du cordon d'alimentation.

AVVERTENZA: Non eseguire riparazioni sul cavo dell'alimentazione o sul conduttore di terra di sicurezza.

VORSICHT: Keine Reparaturen am Netzkabel oder am Schutzleiter vornehmen.

AVISO: No intente reparar el cable de alimentación ni el conductor/mazo de tierra de protección.



Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.

DANGER: Ne pas retirer le CAD monopasse alors qu'il est en position basse. Dans cette position, les ressorts compensateurs sont compressés et peuvent entraîner des blessures s'ils se relâchent.

AVVERTENZA: Non rimuovere l'alimentatore automatico a passaggio singolo quando è abbassato. In questa posizione, le molle del contrappeso sono compresse e possono causare lesioni al rilascio.

VORSICHT: Vorlageneinzug nicht in abgesenkter Position entfernen. Bei abgesenktem Vorlageneinzug sind die Ausgleichsfedern zusammengedrückt und können bei Fre¬igabe Verletzungen verursachen.

AVISO: No quite el alimentador de documentos de pasada única si está bajado. Cuando está bajado, los resortes de contrapeso están comprimidos y pueden causar lesiones al soltarse.



Use safe handling procedures when removing the module. Refer to GP 16. The module is heavy.

DANGER: Conformez-vous aux procédures de manipulation de sécurité pour le retrait du module. Reportez-vous à GP 16. Le module est lourd.

AVVERTENZA: Utilizzare procedure di gestione sicure durante la rimozione del modulo. Vedere GP 16. Il modulo è pesante.

VORSICHT: Verwenden Sie sichere Vorgehensweisen zum Entfernen des Moduls. Siehe auch GP 16. Das Modul ist sehr schwer.

AVISO: Utilice los procedimientos de seguridad cuando elimine el módulo. Consulte el GP 16. El módulo es pesado.

WARNING

Wear protective gloves, PL 26.10 Item 10 and eye protection when using solvents and cleaning agents.

DANGER: Mettez des gants protecteurs, PL 26.10 Item 10 et des lunettes de protection quand vous utilisez des solvants et des produits de nettoyage.

AVVERTENZA: Indossare guanti protettivi, PL 26.10 Item 10 e una protezione per gli occhi durante l'utilizzo di solventi e prodotti detergenti.

VORSICHT: Bitte tragen Sie Schutzhandschuhe, PL 26.10 Item 10 und Augenschutz bei der Verwendung von Lösungs-und Reinigungsmitteln.

AVISO: Póngase guantes protectores, PL 26.10 Item 10 y la protección ocular cuando use disolventes y productos de limpieza.



USA and Canada. Do not install this machine in a hallway or exit route that does not have 1.12 m (44 inches) of space additional to the normal space requirements in front of the machine. To conform with fire regulations this additional 1.12 m (44 inches) of space is needed in front of the machine in hallway and exit routes.

DANGER: États-Unis et Canada. Si cette machine est installée dans un couloir ou une voie de sortie, 1,12 m (44 pouces) d'espace supplémentaire à l'espace normal doit être disponible devant la machine conformément aux normes de sécurité d'incendie.

AVVERTENZA: N/A VORSICHT: N/A

AVISO: Estados Unidos y Canadá. No instale esta máquina en un corredor o ruta de salida que no tenga 1.12 m (44 pulgadas) de ancho delante de la máquina, sin incluir el espacio que ocupe la máquina. Este espacio adicional de 1.12 m (44 pulgadas) delante de la máquina en corredores y rutas de salida es necesario para cumplir los requisitos de las normas sobre incendios.



Isolate the machine from the customer's network before performing tasks that do not need network access. Isolating the machine will prevent remote diagnostic access, GP 15.

AVERTISSEMENT: Isolez la machine du réseau des clients avant d'effectuer les tâches qui ne nécessitent pas l'accès au réseau. Cette isolation bloquera l'accès diagnostique à distance, GP 15.

AVVERTENZA: Prima di eseguire attività che non richiedono l'accesso alla rete, isolare la macchina dalla rete del cliente. L'isolamento della macchina impedisce l'accesso alla diagnostica remota (GP 15).

ACHTUNG: Für Aufgaben, bei denen kein Netzwerkzugriff erforderlich ist, das Gerät vom Kundennetzwerk trennen. Hinweis: Bei Trennung des Geräts ist keine Ferndiagnose möglich (GP 15).

AVISO: Desconecte la máquina de la red del cliente para realizar operaciones que no necesiten acceso a red. Desconectar la máquina de la red evitará que se genere el diagnóstico de acceso remoto, GP 15.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

DANGER: Assurez-vous que la machine est hors tension lorsque vous effectuez des tâches ne nécessitant pas d'alimentation électrique. Reportez-vous à GP 14. Débranchez le câble d'alimentation pour prévenir tout risque d'électrocution. Les chocs électriques peuvent présenter un danger de mort ou entraîner des blessures graves. De plus, certaines pièces, lorsqu'elles sont en mouvement, peuvent être source de blessures graves.

AVVERTENZA: Accertarsi di isolare la macchina dall'alimentazione elettrica quando si eseguono attività che non richiedono elettricità. Vedere GP 14. Scollegare il cavo di alimentazione. L'elettricità può causare morte o lesioni personali. Le parti in movimento possono causare lesioni personali.

VORSICHT: Sicherstellen, dass die Stromversorgung des Geräts bei Arbeiten, die keinen Strom erfordern, ausgeschaltet ist. Siehe auch GP 14. Den Netzstecker ziehen. Andernfalls besteht Stromschlaggefahr und Verletzungsgefahr durch bewegliche Teile.

AVISO: Asegúrese de mantener la máquina aislada de la energía eléctrica mientras realiza tareas que no necesitan electricidad. Consulte GP 14. Desconecte el cable de alimentación. La energía eléctrica puede producir lesiones o incluso la muerte. Las piezas sueltas pueden producir lesiones.

1 Service Call Procedures

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SCP 1 Initial Actions

Service Call Procedures are used at the beginning of a service call. Use Initial Actions to collect information about the machine performance.

Also refer to SCP 6 Machine Features.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not work in a confined space. 1m (39 inches) space is needed for safe working.

- Take note of problems, error messages or error codes. If necessary, refer to Machine Status.
- 2. Switch off, then switch on the machine, GP 14.
- Ask the operator to describe or demonstrate the problem.

NOTE: If the machine is password protected, log in to service copy mode, refer to GP 1.

- 4. If the problem is the result of an incorrect action by the operator, refer the operator to the user documentation.
- Check the steps that follow:
 - a. The power lead is connected to the wall outlet and to the machine.
 - b. Documents are not loaded in the SPDH or on the document glass.
 - c. The paper is loaded correctly.
 - d. All paper trays are closed.
 - e. All doors are closed.
 - f. If a telephone line cable is installed, ensure that the cable is connected between the line socket and the wall jack.
 - g. If a telephone line cable is installed, ensure that the customer telephone line is functioning.
- 6. Check the machine service log book for previous actions that are related to this call.
- 7. Go to SCP 2 Call Actions.

Machine Status

To display a list of the most recent fault codes, perform the steps that follow:

- Press the Machine Status button on the UI.
- 2. Select the Active Messages tab on the UI.
- 3. Select the Fault History button on the UI.

NOTE: If the Machine Status screen is not accessible, go to dC122 to view the fault history.

To display the active messages on the UI, perform the steps that follow:

- Press the Machine Status button on the UI.
- Select the Active Messages tab on the UI
- Select Faults & Alerts from the pull down menu.

SCP 2 Call Actions

Use Call Actions to perform any general actions before starting to diagnose the fault.

Procedure

- 1. If the reason for the service call is to disable the RFID functionality of the toner cartridge CRUM, go to GP 42 How to Disable the Toner Cartridge CRUM RFID Reader.
- 2. If this is the first service call to this machine, if possible, perform the actions that follow:
 - If the Install Wizard has failed to install the information from the SIM card, perform the 303-405-00, 303-406-00 SIM Card Fault RAP.
 - b. Check the machine configuration with the customer. Check that all the required hardware and software is installed. Check that all the required hardware and software is enabled.
 - c. Check that all the machine settings are entered correctly.
 - Mark off the hardware options, software options or Tags installed on the Tag matrix cards.
 - e. Enter the machine information and the customer information in the service log book.
- Review the copy, print and fax samples.
- 4. Ensure the user access settings are correct. If necessary refer to the user documentation.
- To prevent the deletion of the customer information and soft machine settings, save the NVM. Refer to dC361 NVM Save and Restore.
- If necessary, perform GP 19 Network Clone Procedure.

NOTE: The clone file must be taken whenever the customer changes the network controller setting or after the system software is changed.

- Before switching off the machine or clearing the memory, check for a customer job in the memory.
- Check and record the total impressions usage counter. If the usage counters are reset during the call, refer to GP 41 Reporting Usage Counter Resets.
- Go to SCP 3 Fault Analysis.

SCP 3 Fault Analysis

Use Fault Analysis to identify the appropriate RAP to perform based on the machine fault or symptoms.

Procedure



Isolate the machine from the customer's network before performing tasks that do not need network access. Isolating the machine will prevent remote diagnostic access, GP 15.



Do not expose the print cartridge, PL 90.17 Item 9 to light for more than 30 minutes. If necessary, remove the print cartridge, then place in a black bag.

Based on the machine fault or symptoms, go to the relevant procedure:

NOTE: Use the machine in all modes until the fault is found.

- Messages, Fault Codes and Status Codes.
- Power Up Problems.
- Sleep Mode Problems.
- Image Quality Problems.
- User Interface Problems.
- SPDH Problems.
- · Paper Supply and Paper Feed Problems.
- Centre Output Tray Problems.
- 2K LCSS Problems.
- LVF BM Problems.
- Fax Problems.
- Other Problems.

Messages, Fault Codes and Status Codes

- If a fault code is displayed, perform the Status Indicator RAP for that code.
- If a status code or message is displayed, but not a fault code, perform the OF4 Status Code and Messages RAP.
- Perform the 319-401-00, 319-402-00 Stress Out of Memory RAP if the machine has the problems that follow:
 - A message that there is not enough memory to complete the job.
 - The machine does not print a complex job.
 - The customer reports that the print speed is slow.
- If a fault code and the message 'Mark Service Unavailable' is displayed, perform the Status Indicator RAP for that code. If the fault continues after the RAP is performed, perform the 303B Mark Service Unavailable RAP.

Power Up Problems

• If the UI has stalled and shows the splash-logo screen, or the system appears to have power but the UI is blank, perform the OF2 Post Error RAP.

- Perform the OF3 Dead Machine RAP if the machine has the problems that follow:
 - The machine will not power up.
 - There is no information on the UI.
 - There is no LED illumination on the UI.
 - If all the panel lights are on, the UI touch screen is illuminated and the machine then
 powers off.
- If the UI displays 'system unavailable' or the machine does not come to a 'Ready to scan your job' state. Perform the OF5 Boot Up Failure RAP.

Sleep Mode Problems

If the machine fails to enter or exit sleep mode, perform the 301K Sleep Mode RAP.

Image Quality Problems

If the machine has an image quality fault, perform the IQ1 Image Quality Entry RAP.

User Interface Problems

- If the UI is not illuminated, perform the 302A Touch Screen Failure RAP.
- If the UI is illuminated, but there is no information, perform the 302B UI Control Panel Button or Touch Screen RAP.

SPDH Problems

- If the SPDH has detected a document of the wrong size, perform the 305A Document Size Sensors Failure RAP.
- If the SPDH does not detect the documents in the SPDH input tray, perform the 305C Document Present Failure RAP.
- If the message 'Due to a system error all scanned jobs have been deleted' is displayed, perform the 305B Last Sheet Out Sensor Failure RAP.
- If the SPDH is damaging documents, perform the 305D Damaged Documents RAP.
- If the machine locks up after the SPDH scans documents in duplex mode, perform the 305-960-00 SPDH LED Fan Lock Alarm RAP.

Paper Supply and Paper Feed Problems

- For the paper supply problems that do not have a fault code, perform the procedures that follow, as appropriate:
 - 370A Tray Out of Service RAP.
 - 371A Tray 1 and Tray 2 Empty RAP.
 - 373A Tray 3 False Low Paper Level RAP.
 - 373B Tray 3 Out of Paper RAP.
 - 374A Tray 4 False Low Paper Level RAP.
 - 374B Tray 4 Out of Paper RAP.
 - 375A Bypass Tray RAP.
- If the paper fed from tray 1 or tray 2 does not match the paper size indicated on the UI, perform the procedures that follow, as appropriate:
 - 371-500-00 Tray 1 Open During Run RAP.
 - 372-500-00 Tray 2 Open During Run RAP.
- If the machine produces a multifeed, perform the OF8 Multi-feed RAP.
- If the machine produces the symptoms that follow, perform the 381A Paper Feed Retries RAP.
 - Intermittent paper jams at different points in the paper path from registration to IOT exit.

 Paper jams at any point in the paper path from registration to IOT exit, but only from one specific paper tray.

Centre Output Tray Problems

 If there is poor stacking in the centre output tray, perform the 310A Centre Output Tray Poor Stacking RAP.

2K LCSS Problems

- If the machine has a 2K LCSS fault, but not a fault code, perform the procedures that follow, as appropriate:
 - 312A-110 Chad Bin Present and Bin Full RAP.
 - 312B-110 Bin 1 Overload RAP.
 - 312C-110 2K LCSS Initialization Failure RAP.
 - 312D-110 2K LCSS Power Distribution RAP.
 - 312E-110 Staple Head Operation Failure RAP.
 - 312F-110 2K LCSS PWB DIP Switch Settings RAP.
 - 312G-110 2K LCSS PWB Damage RAP.
 - 312H-110 Copy Damage in the 2K LCSS RAP.
 - 312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - 312K-110 2K LCSS Poor Stacking RAP.
 - 312L-110 Stapling Prime Failure RAP.
- If the machine has the problems that follow, perform the 312F-110 2K LCSS PWB DIP Switch Settings RAP:
 - False jam clearance messages.
 - Communication errors between the 2K LCSS and the machine.
- If the staples of a stapled set are not correct, perform the 312L-110 Stapling Failure RAP.
- If the prints bond together in the 2K LCSS travs, perform the OF6 Air Systems RAP.

LVF BM Problems

- If the machine has an LVF BM fault, but not a fault code, perform the procedures that follow, as appropriate:
 - 312A-150 Poor Stacking RAP.
 - 312B-150 Bin 1 Overload RAP.
 - 312C-150 LVF BM Initialization Failure RAP.
 - 312D-150 LVF BM Power Distribution RAP.
 - 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
 - 312G-150 LVF BM Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - 312H-150 Copy Damage in the LVF BM RAP.
 - 312J-150 Booklet Quality RAP.
- If the staples of a stapled set are not correct, perform the 312-377-00-150 LVF BM Stapling Failure RAP.
- If the prints bond together in the LVF BM trays, perform the OF6 Air Systems RAP.

Fax Problems

For fax problems with no fault code, perform the 320A Fax Entry RAP.

Other Problems

Hot machine. Perform the OF6 Air Systems RAP.

- Convenience stapler faults. Perform the OF13 Convenience Stapler RAP.
- Unusual machine noise. Perform the OF1 Unusual Noise RAP.
- Ozone type machine odour. Perform the 391A HVPS RAP.
- If the UI displays 'system not available' or the machine continues to boot up, perform the OE5 Boot Up Failure RAP
- The machine will not switch off. Perform the 303C Switch Off Failure RAP.
- Foreign interface device fault. Perform the 303E Foreign Device PWB Fault RAP.
- Xerox Extensible Interface Platform (XEIP) faults. Perform the OF14 Xerox Extensible Interface Platform RAP.
- Xerox secure access faults. Perform the OF15 Xerox Secure Access RAP.
- Scan to file failure when using the FTP or SMB protocols. Perform the 316A Workflow Scanning Entry RAP.
- The date and time appearing on the customer's banner sheets or the configuration report is incorrect. Perform the 303A SBC PWB Battery RAP.
- Multiple error messages are displayed on the UI after a IOT PWB, scanner PWB, hard disk or SD card has been installed. Refer to GP 27 Machine Configuration Control and Recovery.
- The machine displays incompatible print cartridge or fuser module. Check the 4 main configuration parameters, GP 27. Ensure that the machine settings are correct.
- Failure of wireless printing. Perform the 316D Wireless Connectivity RAP.
- If the fuser module has prematurely reached its end of life, 250,000 prints, perform the OF9 False Fuser End of Life RAP.
- If the print cartridge has prematurely reached its end of life, 147,000 prints, perform the OF12 False Print Cartridge End of Life RAP.
- If the machine scans the originals but then fails to start printing, and does not shut down
 with a fault, perform the 303-316-00 CCM Cannot Communicate with IOT RAP.
- Failure of an external USB keyboard. Go to the OF16 USB Keyboard RAP.

SCP 4 Subsystem Maintenance

Use Subsystem Maintenance to identify potentially worn components that should be replaced to prevent further faults, and to perform routine cleaning and lubrication of the machine.

Procedure



Switch off the electricity to the machine, GP 14. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.

Go to the correct procedure:

- All Service Checks
- Installation of New Parts
- HFSI
- Lubrication
- How to Clean the Machine
- Print Cartridge Handling

All Service Checks

Perform the actions that follow at every service call:

- Clean the relevant optical sensors:
 - SPDH reg sensor, PL 5.18 Item 11.
 - SPDH feed sensor, PL 5.20 Item 10.
 - SPDH takeaway sensor, PL 5.20 Item 10.
 - SPDH length sensor 2, PL 5.30 Item 9.
 - SPDH last sheet out sensor, PL 5.30 Item 18.
 - Post fuser sensor, PL 10.11 Item 7 (centre output tray) or PL 10.12 Item 7 (horizontal transport).
 - Horizontal transport entry sensor, PL 10.15 Item 8.
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Tray 3 feed sensor, PL 80.32 Item 3.
 - Tray 4 feed sensor, PL 80.33 Item 6.
 - Tray 4 exit sensor, PL 80.33 Item 6.
 - Registration sensor, PL 80.17 Item 7.
 - (2K LCSS) entry sensor, PL 12.70 Item 3.
 - (LVF BM) BM paper present sensor, PL 12.380 Item 5.
 - (LVF BM) finisher entry sensor, PL 12.385 Item 7.
- Check the LVF BM staple cartridges. If necessary, install new LVF BM staple cartridges, PL 12.395 Item 8.

Installation of New Parts

The design life of the major components is shown in Table 1.

Table 1 Component design life

| Part | Life | Parts List Reference |
|--|--------------------------------|----------------------|
| Fuser module | 250k prints | PL 10.8 Item 1 |
| Bias transfer roll | 250k prints | PL 80.15 Item 3 |
| Pressure blade | 350k prints | PL 80.17 Item 12 |
| Drive pulley | 350k prints | PL 80.25 Item 3 |
| Transport roll | 350k prints | PL 80.25 Item 7 |
| Transport drive belt kit | 350k prints | PL 80.25 Item 11 |
| Print cartridge | 147k prints | PL 90.17 Item 9 |
| Toner cartridge | 25k prints at 6% area coverage | PL 90.17 Item 2 |
| SPDH feed roll kit | 170k feeds | PL 31.12 Item 15 |
| Tray 1 and 2 feed rolls | 750k feeds | PL 80.26 |
| Transport drive belt kit | 300k feeds | PL 80.25 Item 11 |
| Tray 3 feed rolls | 400k feeds | PL 80.32 Item 9 |
| Tray 4 feed rolls | 400k feeds | PL 80.33 Item 11 |
| Bypass tray feed rolls and retard pad | 100k feeds | PL 70.35 |
| 2K LCSS staple cartridge | 5k staples | PL 12.55 Item 7 |
| LVF BM staple cartridge | 5k staples | PL 12.365 Item 7 |
| LVF BM staple cartridge (book- let maker) | 2k staples | PL 12.395 Item 8 |

HFSI

For High Frequency Service Items (HFSI), refer to dC135 CRU/HFSI Status.

Lubrication

To lubricate the machine, refer to ADJ 40.1 Machine Lubrication.

How to Clean the Machine

- Refer to ADJ 90.1 Xerographics Cleaning.
- Refer to ADJ 5.4 SPDH Cleaning Procedure.
- Clean the upper surfaces of the CVT glass and document glass. Refer to ADJ 60.1 Scanner Cleaning Procedure.
- Refer to ADJ 60.4 LED Print Head Cleaning.
- For special tools and consumables, refer to GP 8 Special Tools and Consumables.

Print Cartridge Handling

- The print cartridge must be protected from light shock and mechanical damage.
- Do not expose the photoreceptor drum to bright lights for extended periods.
- Whenever the print cartridge is removed, place the print cartridge in the black plastic bag supplied with the machine. Store the print cartridge in a safe place on a clean flat surface, to avoid damage to the photoreceptor drum surface.
- Place the print cartridge in the black bag if the left door is opened for long periods.

SCP 5 Final Actions

Use Final Actions to verify the correct operation of the machine and to complete the service call.

Procedure

Perform the steps that follow. If a fault is identified, go to SCP 3 Fault Analysis:

- 1. If necessary, re-connect the machine to the customer's network.
- 2. If necessary, restore the NVM to the machine, Refer to dC361 NVM Save and Restore,
- If necessary, perform GP 19 Network Clone Procedure.

NOTE: The clone file will need to be taken whenever the system software is changed.

- Perform the relevant maintenance procedures. Refer to SCP 4 Subsystem Maintenance.
- 5. Ensure that the machine has the latest available software loaded.
- Operate the machine in all modes. Make the copies and prints from all trays. Use the SPDH and the document glass.
- Make copies and/or prints from all trays. Check the registration and copy quality. To reset the registration, perform dC604 Registration Setup Procedure. For copy quality defects, perform the IQ1 Image Quality Entry RAP.
- 8. Make a proof copy or print of a customer document.
- If some of the customer's selections were changed, return the selections to the customer settings.
- 10. Mark off the hardware options, software options or Tags installed on the Tag matrix cards.
- 11. If some changes were made to the configuration or options were added, print the configuration report. Store the configuration report with the machine log book. Discard the previous version of the configuration report.
- 12. To clear all fault counters, go to GP 1 Service Mode.
- Log the usage counters. If the usage counters are reset during the call, refer to GP 41 Reporting Usage Counter Resets
- 14. If a new IOT PWB, scanner PWB, hard disk or SD card has been installed, check that the machine's configuration is correct. Refer to GP 27.
- 15. Save the NVM of the machine to the hard disk. Refer to dC361 NVM Save and Restore.
- 16. If necessary, provide the customer with training.
- 17. Remove and destroy all copies of test patterns.
- 18. Ensure the machine and service area are clean.

SCP 6 Machine Features

Configuration Options

The WorkCentre 5945/5955 is available as a basic machine with trays 1, 2, 3, 4 and 5 (bypass tray). It is also available in various configurations using the options that follow:

General

For the space requirements, environment range and the print out time. Refer to:

- GP 21 Installation Space Requirements.
- GP 23 Environmental Data.
- GP 25 First Copy / Print Out Time and Power On / Off Time.

Paper Supply and Paper Handling Options

- Two 500 sheet paper trays (trays 1 and 2).
- 3600 sheet high capacity feeder (trays 3 and 4).
- 100 sheet bypass tray.
- 200 sheet single pass document handler (SPDH).

Output Options

- Office finisher (2K LCSS). A 2250 sheet 2 bin stapler stacker.
- Office finisher with booklet maker (LVF BM). A 2000 sheet 2 bin stapler stacker tray with booklet maker.

NOTE: A horizontal transport is also installed when a finisher is fitted.

Accessories and Kits

- Workshelf.
- 50 sheet convenience stapler.
- 2 hole punch kit.
- Legal 2 hole punch kit.
- 3 hole punch kit.
- 4 hole punch kit.
- Swedish 4 hole punch kit.
- 1 Line Fax kit.
- 2 Line Fax kit.
- Scan to PC desktop SE standard.
- Scan to PC desktop SE professional.
- Nationalization kits.
- Foreign device interface kit.
- Tray 2/4 lock kit.
- Envelope tray feed kit.
- Horizontal transport kit (used when a finisher is fitted).
- Unicode international printing kit.
- Secure access kit.
- Common access card.
- McAfee Integrity Control enablement kit.
- XPS enablement kit.
- Wireless print kit.
- Smartcard kit.

NOTE: The service manual covers all of the above configurations. Within the manual, ignore any references to options that are not installed.

Machine Identification

The diagrams that follow illustrate some of the machine configurations:

- Figure 1 WorkCentre 5945 with trays 3 and 4, centre output tray and workshelf.
- Figure 2 WorkCentre 5955 with trays 3 and 4, workshelf and 2K LCSS.
- Figure 3 WorkCentre 5955 with trays 3 and 4, workshelf and LVF BM.

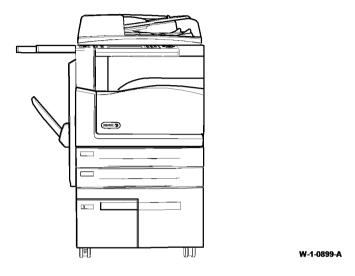


Figure 1 WorkCentre 5945 with centre output tray

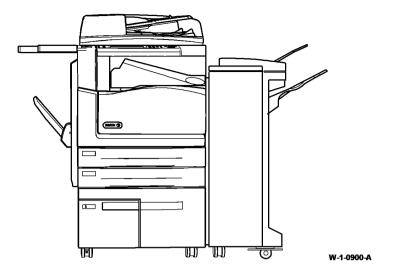


Figure 2 WorkCentre 5955 with 2K LCSS

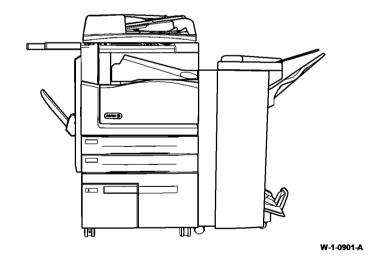


Figure 3 WorkCentre 5955 with LVF BM

2 Status Indicator RAPs

| Chain 1 - Standby Power | | 303-401-00, 303-403-00 Fax Not Detected RAP | 2-90 |
|--|------|---|-------|
| 301-300-00 Front Door Open Entry RAP | 2-5 | 303-405-00, 303-406-00 SIM Card Fault RAP | 2-91 |
| 301-300A-00 Front Door Open RAP (W/OTAG 007, TAG 008, TAG 015) | | 303-417-00 Incompatible Fax Software RAP | 2-91 |
| 301-300B-00 Front Door Open RAP (W/TAG 007, TAG 008, TAG 015) | 2-8 | 303-777-00 Power Loss Detected RAP | 2-92 |
| 301-305-00 Left Door Open Entry RAP | | 303-788-00 Failed to Exit Power Save Mode RAP | 2-92 |
| 301-305A-00 Left Door Open RAP (W/OTAG 007, TAG 008, TAG 015) | | 303-790-00 Time Zone Cannot Be Set RAP | 2-93 |
| 301-305B-00 Left Door Open RAP (W/TAG 007, TAG 008, TAG 015) | | 303A SBC PWB Battery RAP | 2-93 |
| 301A Ground Distribution RAP | | 303B Mark Service Unavailable RAP | 2-95 |
| 301B 0V Distribution RAP | | 303C Switch Off Failure RAP | |
| 301C AC Power RAP | | 303D SBC PWB Diagnostics RAP | |
| 301D +3.3V Distribution RAP | | 303E Foreign Device PWB Fault RAP | 2-99 |
| 301E +5V and +5VSB Distribution RAP | | - | |
| 301F +12V Distribution RAP | | Chain 5 - SPDH | |
| 301G +24V Distribution RAP | _ | 305-253-00 SPDH Communications Error RAP | |
| 301H Short Circuit and Overload RAP | | 305-300-00 SPDH Open RAP | |
| 301J Power On and LVPS Control Signal RAP | | 305-305-00 SPDH Top Cover Open RAP | |
| 301K Sleep Mode RAP | | 305-335-00, 305-336-00 SPDH Takeaway Sensor Paper Jam RAP | 2-105 |
| 301L LVPS RAP | _ | 305-340-00, 305-341-00 SPDH Reg Sensor Failure RAP | 2-108 |
| SUIL LVFS NAF | 2-00 | 305-342-00, 305-343-00 SPDH Side 2 Reg Sensor Failure RAP | 2-111 |
| Chain 2 - User Interface | | 305-940-00, 305-966-00 SPDH No Original RAP | |
| 302-302-00, 302-306-00, 302-308-00 Flash Failure RAP | 2-73 | 305-941-00 Insufficient Originals RAP | 2-115 |
| 302-315-00 Service Registry Bad Data RAP | | 305-958-00 SPDH Lift Home Position Sensor Failure RAP | |
| 302-316-00, 302-317-00 SRS Error RAP | | 305-959-00 SPDH Calibration Home Position Sensor Failure RAP | |
| 302-320-00 Data Timeout Error RAP | | 305-960-00 SPDH LED Fan Lock Alarm RAP | 2-122 |
| 302-321-00 XEIP Browser Dead RAP | | 305-961-00 SPDH Motor Fan Lock Alarm RAP | |
| 302-380-00, 302-381-00 UI Communication Fault RAP | | 305-962-00 SPDH Feed Sensor Adjustment Error RAP | |
| 302-390-00 Configurable Services RAP | | 305-963-00 SPDH Takeaway Sensor Adjustment Error RAP | |
| 302A Touch Screen Failure RAP | | 305-964-00 SPDH Reg Sensor Adjustment Error RAP | |
| 302B UI Control Panel Button or Touch Screen RAP | | 305-965-00 SPDH Side 2 Reg Sensor Adjustment Error RAP | |
| 502D OT CONTROL T WHOLE BUILDING TOWN CONCENT IV II | 210 | 305A Document Size Sensors Failure RAP | |
| Chain 3 - Machine Run Control | | 305B Last Sheet Out Sensor Failure RAP | |
| 303-306-00 Software Downgrade Not Permitted RAP | 2-79 | 305C Document Present Failure RAP | |
| 303-307-00 Software Upgrade Synchronization Failure RAP | 2-79 | 305D Damaged Documents RAP | |
| 303-315-00 DC Platform Internal Interface Fault RAP | | 500D Damaged Documento 10 tr | 2 100 |
| 303-316-00 CCM Cannot Communicate with IOT RAP | | Chain 10 - Fusing and Copy/Print Transportation | |
| 303-324-00, 303-327-00, 303-390-00 Software Upgrade Failure RAP | | 310-153-00, 310-163-00 Lead Edge Late to Post Fuser Sensor RAP | 2-137 |
| 303-325-00 System Detects the Machine Clock Failed to Increment During Power | | 310-154-00, 310-164-00 Trail Edge Late from Post Fuser Sensor RAP | 2-140 |
| 303-326-00 Software Upgrade Not Required RAP | | 310-170-00 Lead Edge Late to Horizontal Transport Entry Sensor RAP | |
| 303-329-00, 303-330-00 Software Upgrade Request RAP | | 310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP | |
| 303-331-00, 303-332-00 Main Controller and Network Controller on the SBC PW | | 310-172-00 Unexpected Sheet in Horizontal Transport RAP | |
| Communicate RAP | | 310-201-00 Unexpected Sheet at Post Fuser Sensor RAP | |
| 303-338-00 SBC Main Controller Reset RAP | | 310-320-00 Fuser Control Failure RAP | |
| 303-346-00, 303-347-00 Single Board Controller PWB to UI Error RAP | | 310-330-00, 310-340-00 Fuser Warm Up Failure RAP | |
| 303-355-00 CCM POST Failure Detected RAP | | 310-338-00 Horizontal Transport Interlock Open in Run RAP | |
| 303-360-00, 303-800-00 IOT to Finisher RAP | | 310-399-00 Fuser CRUM Authorization Failure RAP | |
| 303-362-00 CCS Power Fault RAP | | 310-400-00 Fuser CRUM Communication Fault RAP | |
| 303-397-00 System Configuration Recovery Attempt RAP | | 310-702-00 Offset Motor Fault RAP | |
| 303-398-00. 303-399-00 SOK 1 Not Detected RAP | | 310A Centre Output Tray Poor Stacking RAP | |
| 000 000 00. 000 000-00 0011 1 NOI DEIEGIEU IVAI | 2-00 | o . o . o o o o o o o o o o o o o o | 102 |

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312-371-00-150, 312-372-00-150, 312-378-00-150 Staple Head Unit Movement Failure RAP.....

| 312-377-00-150 Stapling Failure RAP | 2-272 |
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| 312-392-00-150, 312-393-00-150, 312-394-00-150 Front Tamper Move Failure RAP | 2-275 |
| 312-396-00-150, 312-397-00-150, 312-398-00-150 Rear Tamper Move Failure RAP | 2-277 |
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| 312-462-00-150 Bin 1 Movement Failure RAP | 2-282 |
| 312-492-00-150 Finisher Communication Failure | 2-286 |
| 312A-150 Poor Stacking RAP | 2-289 |
| 312B-150 Bin 1 Overload RAP | 2-289 |
| 312C-150 LVF BM Initialization Failure RAP | 2-290 |
| 312D-150 LVF BM Power Distribution RAP | 2-291 |
| 312E-150 Staple Head Operation Failure RAP | 2-296 |
| 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP | 2-298 |
| 312G-150 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP | 2-298 |
| 312H-150 Copy Damage in the LVF BM RAP | 2-299 |
| 312J-150 Booklet Quality RAP | 2-300 |
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| Chain 16 - Network Controller | |
| 316-000-00 to 316-016-99 Network Faults 1 RAP | 2-305 |
| 316-017-19 to 316-153-19 Network Faults 2 RAP | 2-306 |
| 316-154-09 to 316-602-105 Network Faults 3 RAP | 2-307 |
| 316-603-11 to 316-608-105 Network Faults 4 RAP | 2-308 |
| 316-609-07 to 316-612-68 Network Faults 5 RAP | 2-309 |
| 316-613-09 to 316-620-90 Network Faults 6 RAP | 2-310 |
| 316-620-92 or 316-625-90 Network Faults 7 RAP | 2-311 |
| 316-626-00 to 316-635-99 Network Faults 8 RAP | 2-312 |
| 316-636-35 to 316-647-26 Network Faults 9 RAP | 2-313 |
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| 316-669-28 to 316-730-66 Network Faults 11 RAP | 2-315 |
| 316-718-00 to 316-726-00 Hard Disk Faults RAP | 2-316 |
| 316-742-19 Hard Disk ODIO Failure RAP | 2-316 |
| 316-750-07 to 316-750-95 Network Faults 12 RAP | 2-317 |
| 316-751-00 to 316-753-95 Network Faults 13 RAP | 2-318 |
| 316-754-09 to 316-756-93 Network Faults 14 RAP | 2-319 |
| 316-757-09 to 316-760-99 Network Faults 15 RAP | 2-320 |
| 316-761-09 to 316-765-93 Network Faults 16 RAP | 2-321 |
| 316-766-09 to 316-772-95 Network Faults 17 RAP | 2-322 |
| 316-770-09 to 316-779-95 Network Faults 18 RAP | 2-323 |
| 316-780-00 to 316-789-47 Network Faults 19 RAP | 2-324 |
| 316-790-09 to 316-799-47 Network Faults 20 RAP | 2-325 |
| 316-800-09 to 316-809-47 Network Faults 21 RAP | 2-326 |
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| 316-840-47 to 316-879-47 Network Faults 23 RAP | 2-328 |
| 316-880-47 to 316-929-19 Network Faults 24 RAP | 2-329 |
| 316-930-19 to 316-971-19 Network Faults 25 RAP | 2-330 |
| 316-975-19 to 316-989-19 Network Faults 26 RAP | 2-331 |
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| 316B FTP or SMB Unable to Connect to Remote Server RAP | 2-333 |
| 316C Remote Directory Lock Failed RAP | 2-335 |

316D Wireless Connectivity RAP 2-335

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| Chain 19 - Image Processing | |
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| 319-750-00 EPC Memory Change Detected RAP | 2-340 |
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| 320-305-00 Fax System Low Memory Unrecoverable RAP | 2-343 |
| 320-320-00 Fax Fault Not Cleared by Reset RAP | 2-344 |
| 320-322-00 Non-Volatile Device Not Installed RAP | 2-344 |
| 320-323-00, 320-324-00 Fax System Memory Low RAP | 2-345 |
| 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 Fax Network | |
| Line 1 Fault RAP | 2-345 |
| 320-327-00, 320-332-00, 320-340-00 Fax Network Line 2 Fault RAP | 2-346 |
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| 320-701-00 Fax Phone Book Download Failed RAP | 2-347 |
| 320-710-00, 320-711-00 Image Overwrite Error RAP | 2-347 |
| 320A Fax Entry RAP | 2-348 |
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301-300-00 Front Door Open Entry RAP

301-300-00 The front door has opened during machine operation.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the appropriate RAP:

- 301-300A-00 Front Door Open RAP (W/O TAG 007, TAG 008, TAG 015)
- 301-300B-00 Front Door Open RAP (W/TAG 007, TAG 008, TAG 015)

301-300A-00 Front Door Open RAP (W/OTAG 007, TAG 008, TAG 015)

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 001-300, front door interlock, Figure 1. Open and close the front door. **The display changes.**

N

Use an interlock cheater to actuate the front door interlock switch, SO1-300. **The display changes.**

N

Go to Flag 1. Check S01-300.

Refer to:

- P/J763. IOT PWB.
- GP 13 How to Check a Switch.
- REP 1.2 Wiring Harness Repairs.

If necessary install a new front door interlock switch, PL 1.12 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

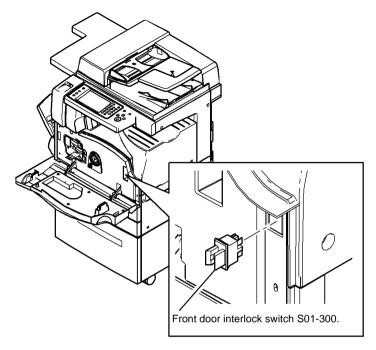
Check that the front door, PL 28.10 Item 5 closes correctly. If not, check the components that follow:

- The toner dispense latch is in the latched position, PL 90.17 Item 5.
- The LED print head module latch is in the latched position, PL 60.35 Item 2.
- The switch actuating flag on the front door for damage, if necessary install a new front door assembly, PL 28.11 Item 1.

Check the components that follow:

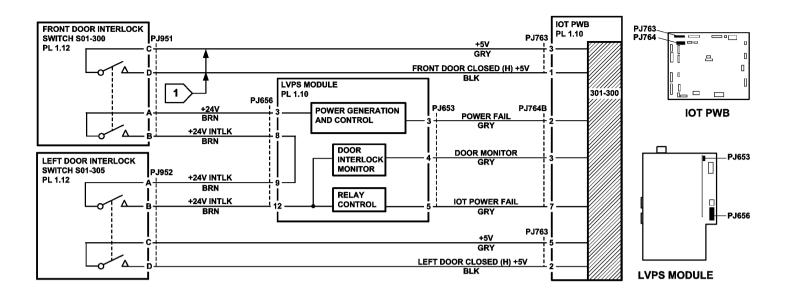
- The switch actuating flag on the front door for damage.
- The front door assembly, PL 28.11 Item 1 is not distorted or damaged.
- The magnet, PL 28.11 Item 3 is not damaged or missing.

If necessary install a new front door assembly, PL 28.11 Item 1.



W-1-0988-A

Figure 1 Component location



TW-1-0250-A

Figure 2 Circuit diagram

301-300B-00 Front Door Open RAP (W/TAG 007, TAG 008, TAG 015)

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 001-300, front door interlock, Figure 1. Open and close the front door. **The display changes.**

ΥI

Use an interlock cheater to actuate the front door interlock switch, SO1-300. **The display changes.**

N

Go to Flag 1. Check S01-300.

Refer to:

- GP 13 How to Check a Switch.
- REP 1.2 Wiring Harness Repairs.

If necessary install a new front door interlock switch, PL 1.12 Item 1.

Actuate, SO1-300. The display changes.

Y N

Go to Flag 2. Check the wiring for continuity.

Refer to:

- REP 1.2 Wiring Harness Repairs.
- P/J653.
- P/J764.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

If the IOT PWB is diagnosed as good install a new LVPS module W/TAG 008.

Perform SCP 5 Final Actions.

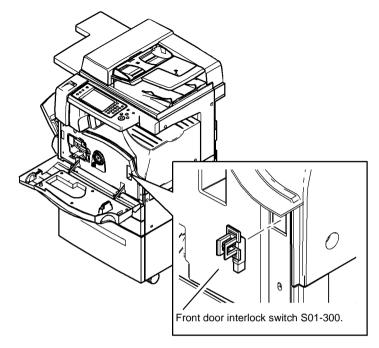
Check that the front door, PL 28.10 Item 5 closes correctly. If not, check the components that follow:

- The toner dispense latch is in the latched position, PL 90.17 Item 5.
- The LED print head module latch is in the latched position, PL 60.35 Item 2.
- The switch actuating flag on the front door for damage, if necessary install a new front door assembly, PL 28.11 Item 1.

Check the components that follow:

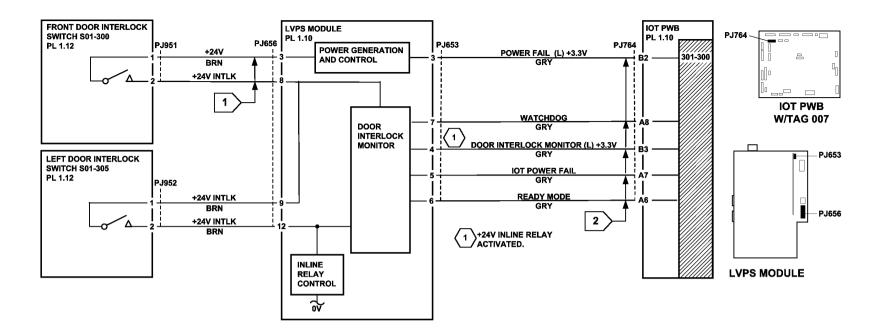
- The switch actuating flag on the front door for damage.
- The front door assembly, PL 28.11 Item 1 is not distorted or damaged.
- The magnet, PL 28.11 Item 3 is not damaged or missing.

If necessary install a new front door assembly, PL 28.11 Item 1.



W-1-1432-A

Figure 1 Component location



TW-1-0329-A

Figure 2 Circuit diagram

301-305-00 Left Door Open Entry RAP

301-305-00 The left door has been opened during machine operation.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the appropriate RAP:

- 301-305A-00 Left Door Open RAP (W/OTAG 007, TAG 008, TAG 015)
- 301-305B-00 -00 Front Door Open RAP (W/TAG 007, TAG 008, TAG 015)

301-305A-00 Left Door Open RAP (W/OTAG 007, TAG 008, TAG 015)

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 001-305, left door interlock. Open and close the left hand door, Figure 1. **The display changes.**

Y N

Use an interlock cheater to actuate the left door interlock switch, SO1-305. **The display changes.**

Y N

Go to Flag 1. Check S01-305.

Refer to:

- P/J763. IOT PWB.
- GP 13 How to Check a Switch.
- REP 1.2 Wiring Harness Repairs.

If necessary, install a new left door interlock switch, PL 1.12 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Check that the left door assembly, PL 80.10 Item 1 closes correctly. If not, check the components that follow:

- Door latch plate (2), PL 80.11 Item 13.
- Rear latch cam. PL 80.11 Item 11.
- Rear latch, PL 80.11 Item 10.
- Front latch cam. PL 80.11 Item 5.
- Front latch, PL 80.11 Item 4.
- Damper spring (2), PL 80.11 Item 2.
- Damper cable (2), PL 80.11 Item 3.

Check that the left door assembly, PL 80.10 Item 1 closes correctly. If not, check the components that follow:

- Door latch plate (2), PL 80.11 Item 13.
- Rear latch cam, PL 80.11 Item 11.
- Rear latch, PL 80.11 Item 10.
- Front latch cam, PL 80.11 Item 5.
- Front latch, PL 80.11 Item 4.
- Damper spring (2), PL 80.11 Item 2.
- Damper cable (2), PL 80.11 Item 3.

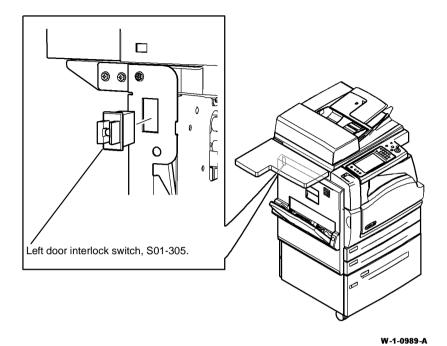
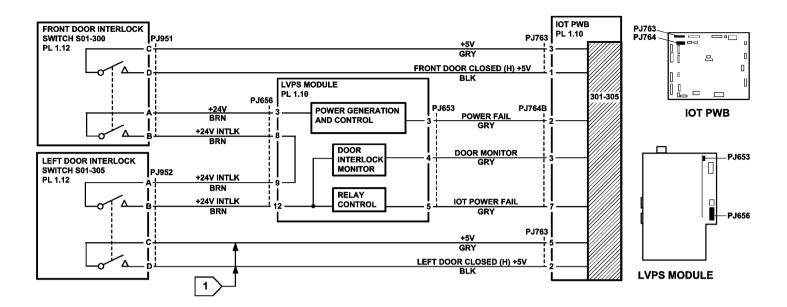


Figure 1 component location



TW-1-0251-A

Figure 2 Circuit diagram

301-305B-00 Left Door Open RAP (W/TAG 007, TAG 008, TAG 015)

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 001-305, left door interlock. Open and close the left hand door, Figure 1. **The display changes.**

Υ

Use an interlock cheater to actuate the left door interlock switch, SO1-305. **The display changes.**

ΥÑ

Go to Flag 1. Check S01-305.

Refer to:

- GP 13 How to Check a Switch.
- REP 1.2 Wiring Harness Repairs.

If necessary, install a new left door interlock switch, PL 1.12 Item 1.

Actuate, SO1-300. The display changes.

Y N

Go to Flag 2. Check the wiring for continuity.

Refer to:

- REP 1.2 Wiring Harness Repairs.
- P/J653.
- P/J764.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

If the IOT PWB is diagnosed as good install a new LVPS module W/TAG 008.

Perform SCP 5 Final Actions.

Check that the left door assembly, PL 80.10 Item 1 closes correctly. If not, check the components that follow:

- Door latch plate (2), PL 80.11 Item 13.
- Rear latch cam, PL 80.11 Item 11.
- Rear latch. PL 80.11 Item 10.
- Front latch cam, PL 80.11 Item 5.
- Front latch, PL 80.11 Item 4.
- Damper spring (2), PL 80.11 Item 2.
- Damper cable (2), PL 80.11 Item 3.

Check that the left door assembly, PL 80.10 Item 1 closes correctly. If not, check the components that follow:

- Door latch plate (2), PL 80.11 Item 13.
- Rear latch cam, PL 80.11 Item 11.

- Rear latch, PL 80.11 Item 10.
- Front latch cam, PL 80.11 Item 5.
- Front latch, PL 80.11 Item 4.
- Damper spring (2), PL 80.11 Item 2.
- Damper cable (2), PL 80.11 Item 3.

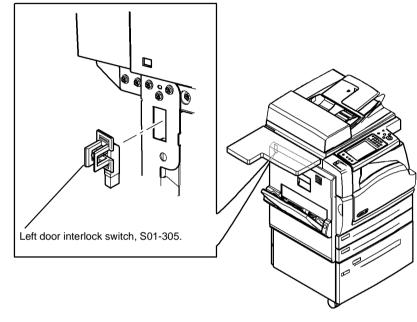
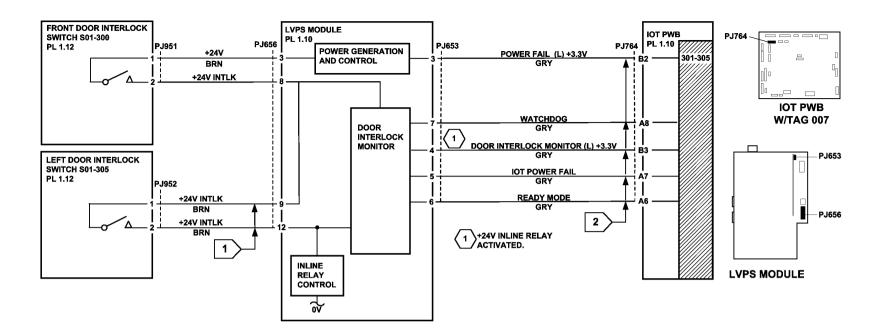


Figure 1 component location

W-1-1433-A



TW-1-0330-A

Figure 2 Circuit diagram

301A Ground Distribution RAP

Use this RAP to identify ground distribution faults.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not switch on the electricity to the machine while a ground circuit is disconnected. Ground circuits ensure that the machine remains safe during a fault condition.

NOTE: Ground distribution faults must be isolated by continuity checks and visual inspection. Check all circuits between each connection and ground.

Ground distribution faults can cause the faults that follow:

- Image quality faults.
- Paper feed faults.
- Paper path faults.
- Random logic faults

To diagnose a suspected ground distribution fault, the points that follow must be considered:

- Ensure that all the connectors are not damaged. Check crimping for suspect electrical connections or any mechanical failure that could cause a failed or poor electrical contact. Refer to REP 1.2 Wiring Harness Repairs.
- When making a continuity check on a harness, disconnect the harness at both ends, to
 ensure that other wiring does not cause continuity readings to be incorrect. Ensure that
 any in-line connectors are installed correctly.
- When making a check between connectors and ground, preferably use the main frame ground connection, Figure 5. Alternatively use any unpainted metal part of the machine frame
- Check the ground conductor of the main power cord for continuity or damage, if necessary install a new main power cord, PL 1.10 Item 8.
- Check that the ground connections that follow are secure:
 - Bypass Tray Ground.
 - Duplex Transport Ground.
 - Fax Module Ground.
 - Fuser Module Ground.
 - LED Print Head Module Ground.
 - Main Frame Ground.
 - Paper Transport Rolls Ground.
 - Print Cartridge Ground.
 - Registration Transfer Ground
 - Scanner Module Ground.

- SPDH Ground.
- Tray 3 and 4 Ground.

Bypass Tray Ground

Refer to Figure 1. Check for continuity of less than 10k ohms between the bypass tray feed roll shaft. PL 70.35 Item 14 and the left door frame.

To improve continuity, perform the steps that follow:

- Remove the feed roll assembly, REP 80.15.
- 2. Remove the ground wire, Figure 1 and clean the terminals at both ends of the wire.
- Clean the bearings, PL 70.35 Item 10 and the parts of the feed roll shaft where the bearings locate.
- 4. Reassemble the bypass tray assembly

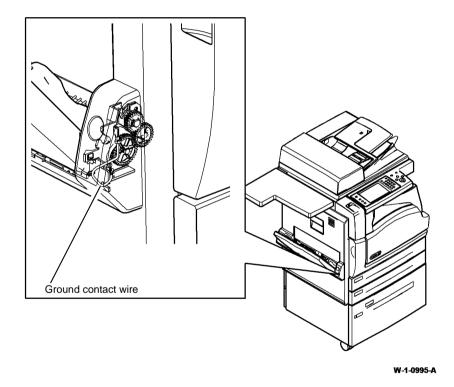


Figure 1 Bypass ground connections

Duplex Transport Ground

The ground connection between the left door frame and the machine frame is through the left door hinges. Check for continuity of less than 10 ohms between the left door frame and the machine frame, if necessary remove the left door assembly, REP 80.7, clean the hinge components, then re-install the left door.

Refer to Figure 2. Check the tightness of the screw holding the ground spring strip to the duplex motor bracket. Check for continuity of less than 10 ohms between the duplex motor bracket and the machine frame. If necessary remove the ground spring strip, clean the contact faces and re-assemble, to improve continuity.

Refer to Figure 2. Check for continuity of less than 10 ohms between the duplex transport ground strip and the machine frame. If necessary remove the duplex transport ground strip, clean the contact faces and re-assemble, to improve continuity.

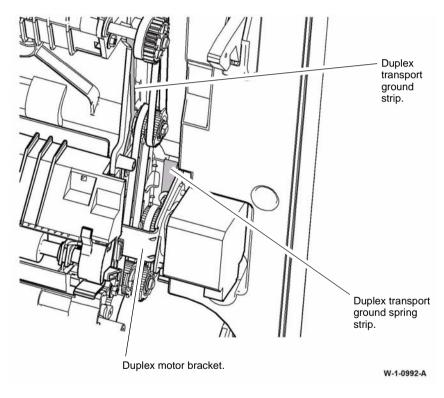


Figure 2 Duplex transport ground

Fax Module Ground

Refer to Figure 3. Ensure the face of the Fax module ground plate and the mounting area of the SBC cage are clean.

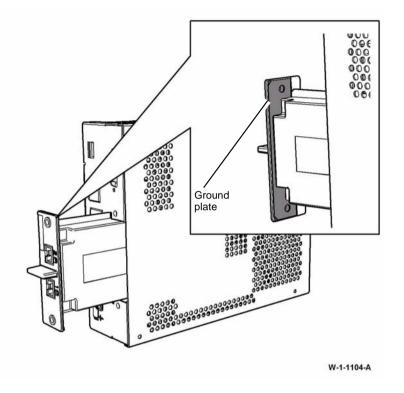


Figure 3 Fax module ground

Fuser Module Ground

Check for continuity of less than 1 ohm between the fuser frame and the fuser module ground, Figure 4.

Refer to Figure 4. Perform the steps that follow:

- To improve continuity, disconnect the fuser module ground terminal, clean the contact faces and re-assemble.
- Remove the fuser. Check the drawer connector contacts are clean and undamaged. If necessary install new components.

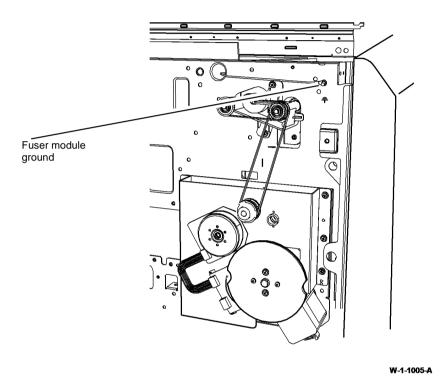


Figure 4 Fuser module ground

Main Frame Ground

Refer to Figure 5, check for continuity of less than 1 ohm between the LVPS input ground connection and the main frame ground. Also check for a continuity of less than 1 ohm between the scanner module ground connection and the main frame ground. Check that the hardware is tight and the harness crimping is good. To improve continuity, disconnect the terminals, clean the contact faces then re-assemble.

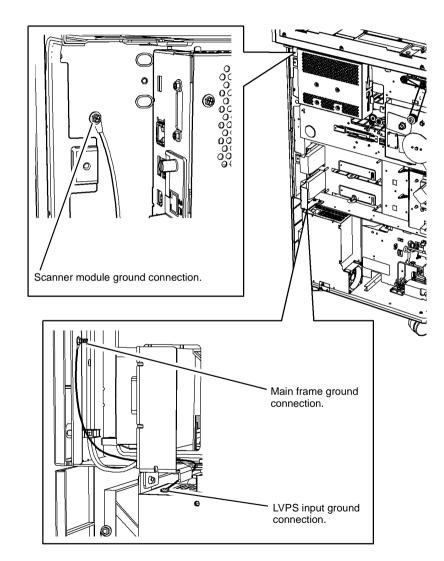
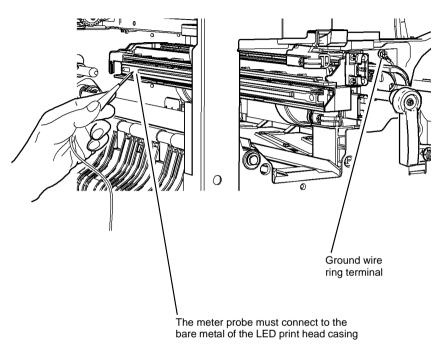


Figure 5 Component location

LED Print Head Module Ground

Check for continuity of less than 10 ohms between the LED print head casing, Figure 6 and the main frame ground connection.



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Figure 6 LPH ground connection

To improve continuity, perform the actions that follow:

- 1. Remove the LED print head module, REP 60.15.
- 2. Clean the contact faces of the ground wire ring terminal.
- 3. Figure 7, clean the contact faces of the LPH ground spade connector.

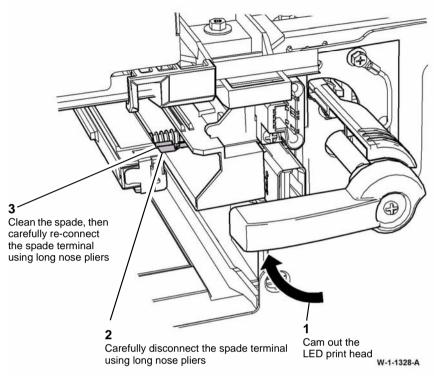


Figure 7 LPH ground spade connection

4. Install the LED print head module, REP 60.15.

Paper Transport Rolls Ground

Refer to Figure 8. Open the left door. Rotate the transport rolls by hand and check for continuity of less than 10k ohms between the tray 1 and tray 2 transport roll shafts and the main frame ground connection, Figure 5. To improve continuity for the tray 1 and tray 2 transport roll shafts, remove, clean and re-install the shaft and bearings, REP 80.10.

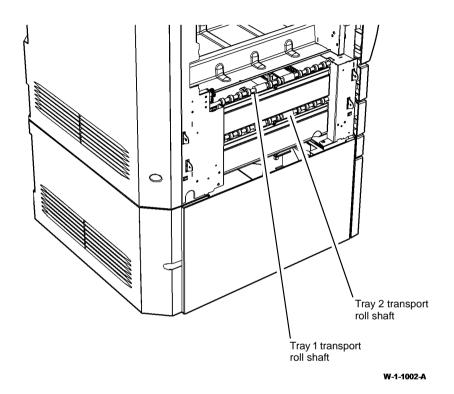


Figure 8 Paper transport rolls

Print Cartridge Ground

Refer to Figure 9. Ensure the machine is switched off, GP 14. Check for continuity of less than 10 ohms between the machine frame and photoreceptor drive shaft. To improve continuity, remove the ground contact strip, Figure 9 and clean the contact areas of the strip, frame bracket and drive shaft, then re-assemble and test.

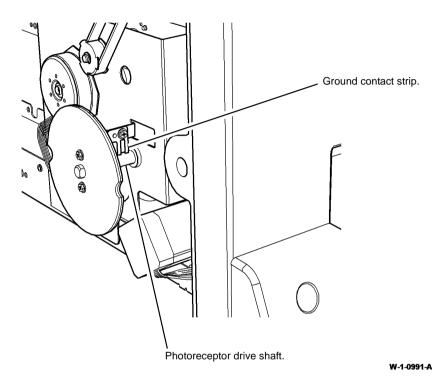


Figure 9 Print cartridge ground



Take care not to damage the surface of the photoreceptor drum when checking the resistance.

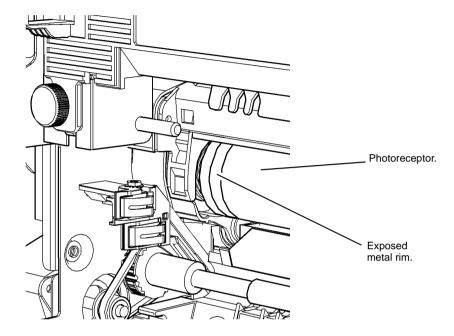
Refer to Figure 10. Check for continuity of less than 20 ohms between the machine frame and the exposed metal rim at each end of the photoreceptor.

NOTE: The print cartridge may have a residual coating on the exposed metal rim. Make sure good contact is made.

To improve continuity, perform the steps that follow:

- 1. Remove the print cartridge, PL 90.17 Item 9.
- Put a sheet of paper beneath the print cartridge drive shaft, Figure 11.

- Use an abrasive cloth, PL 26.10 Item 1 to clean the front end of the print cartridge drive shaft.
- 4. Apply a conductive lubricant to the cleaned area.
- 5. Re-assemble and test. If necessary, install a new print cartridge, PL 90.17 Item 9.



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Figure 10 Print cartridge ground

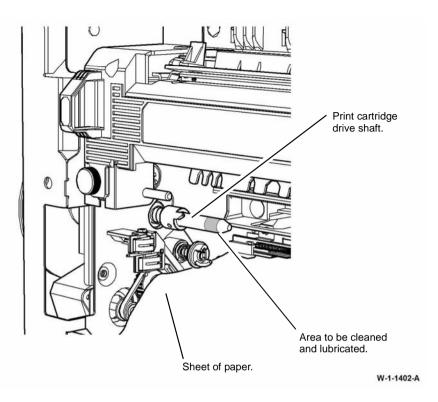


Figure 11 Print cartridge drive shaft

Registration Transfer Ground

Refer to Figure 12. Check for continuity of less than 10 ohms between the stiffener and the ground strip, PL 80.22 Item 18. If necessary remove the stiffener (4 screws), clean the contact faces and re-assemble, to improve continuity.

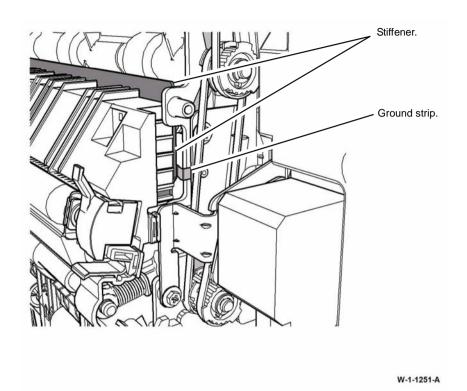


Figure 12 Stiffener ground

Refer to Figure 12 and Figure 13. Check for continuity of less than 10 ohms between the stiffener and the ground contact strip, PL 80.15 Item 17. If necessary clean the contact faces to improve continuity.

Refer to Figure 13. Check for continuity of less than 10 ohms between the registration transfer backplate and the ground strap, PL 80.15 Item 17. If necessary remove the ground strap (1 screw), clean the contact faces and re-assemble, to improve continuity.

Refer to Figure 13. Check for continuity of less than 10 ohms between the registration transfer backplate and the springs, PL 80.15 Item 10. If necessary remove the springs, clean the contact faces and re-assemble, to improve continuity.

Refer to Figure 13. Check for continuity of less than 2k ohms between the springs and the registration nip roll, PL 80.15 Item 4. If necessary remove the springs, registration nip roll and registration nip roll bearings. Clean the contact faces and re-assemble, to improve continuity.

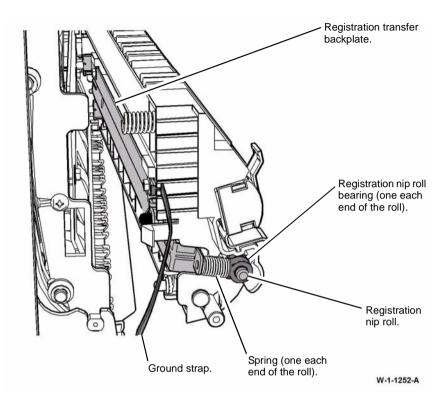


Figure 13 Transfer ground

Scanner Module Ground

Refer to Figure 14. Check the connections that follow:

- For continuity of less than 1 ohm between the main frame ground connection and the scanner frame, refer to Figure 5. To improve continuity disconnect the scanner module ground connection, Figure 5 and the other end of the ground wire at the scan carriage motor assembly, PL 60.20 Item 2, clean the contact faces and re-assemble.
- For continuity of less than 10 ohms between the scanner frame, via 3 ground springs to the 3 mounting plates. To improve continuity disconnect the springs, clean the contact faces and re-assemble.
- For continuity of less than 10 ohms between the mounting plate and the grounding strip.
 To improve continuity disassemble the parts, clean the contact faces and re-assemble.
- For continuity of less than 10 ohms between the grounding strip and the transit shaft. To improve continuity disassemble the parts, clean the contact faces and re-assemble.
- For continuity of less than 10 ohms between the grounding strip and the carriage support rail. To improve continuity disassemble the parts, clean the contact faces and re-assemble.
- The cleanliness of the foam pad between the scan carriage and the carriage support rail.
 If necessary clean the pad using film remover, PL 26.10 Item 4.

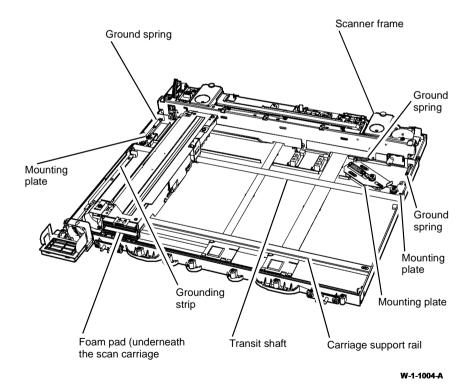
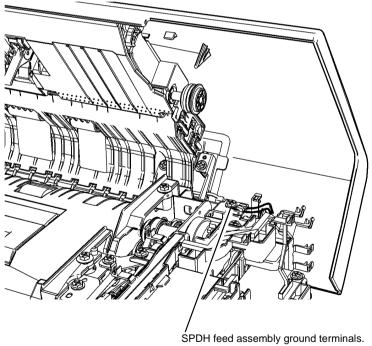


Figure 14 Scanner ground connections

SPDH Ground

Refer to Figure 15 and Figure 16. Perform the checks that follow:

- Remove the SPDH rear cover, PL 5.10 Item 1. Check for continuity of less than 1 ohm between the SPDH frame and the Scanner module ground connection, Figure 5 via the SPDH frame to the left counterbalance ground spring, Figure 16. To improve continuity, remove the SPDH, REP 5.19 and clean the contact faces between the left counterbalance, PL 5.10 Item 4 and the Machine. Also remove the SPDH frame to the left counterbalance ground spring, Figure 16 and clean the contact faces, then re-assemble.
- Remove the feed assembly, REP 5.2, but do not disconnect the harness. Check for continuity between the feed assembly ground points at the end of the green wires and the ground terminals shown in Figure 15. To improve continuity disconnect, clean and reassemble the connections.
- Check for continuity between the motor housings and the left counterbalance. To improve continuity disconnect, clean and reassemble the motor ground connections shown in Figure 16.
- Remove the input tray assembly, REP 5.4, but do not disconnect the harness. Check for
 continuity between the ground point at the end of the green wire next to the last sheet out
 sensor, PL 5.30 Item 18 and the input tray ground connection indicated in Figure 16. To
 improve continuity disconnect, clean and reassemble the connections.



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Figure 15 SPDH ground connections 1

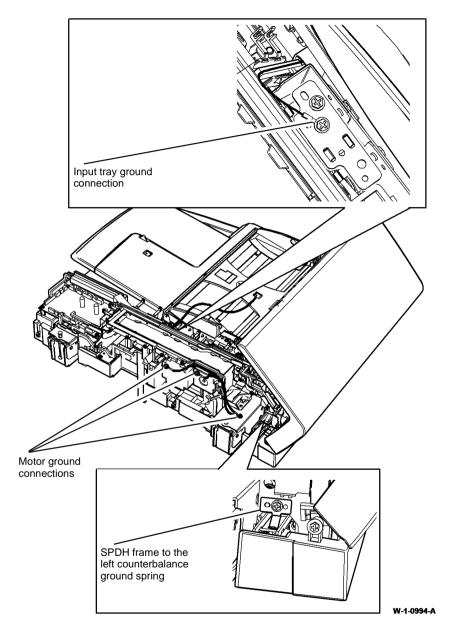
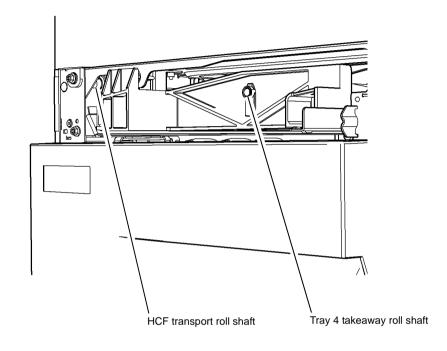


Figure 16 SPDH ground connections 2

Tray 3 and 4 Ground

Remove the tray 4 front cover, PL 70.26 Item 5 (4 screws). Refer to Figure 17. With tray 4 closed, check for continuity of less than 10k ohms between the tray 4 takeaway roll shaft and the main frame ground connection, also between the HCF transport roll shaft and the main frame ground connection.

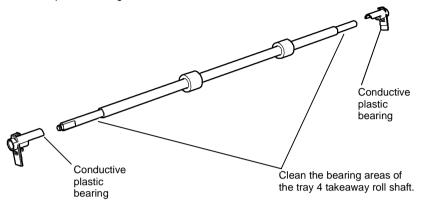


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Figure 17 Continuity check points

- If necessary, open the tray then rotate the shafts. Close the tray and repeat the measurements.
- To improve continuity, remove the tray 4 takeaway roll, REP 80.26. Refer to Figure 18.Clean the conductive plastic bearings and shaft. Then install the removed components.

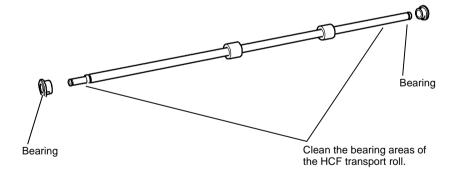
Clean inside and outside of the conductive plastic bearings.



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Figure 18 Component cleaning

- 3. To improve continuity, remove the HCF transport roll and bearings, REP 80.27. Refer to Figure 19. Clean the bearings and shaft. Then install the removed components.
 - Clean inside and outside of the conductive plastic bearings.



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Figure 19 Component cleaning

- 4. Empty tray 4 of paper. Refer to Figure 20. Check for continuity of less than 10k ohms between the ground point and the points that follow:
 - Lift plate.

Status Indicator RAPs

- Front paper guide
- Rear paper guide.

To improve continuity, disconnect and clean the ground harness connectors, then re-connect.

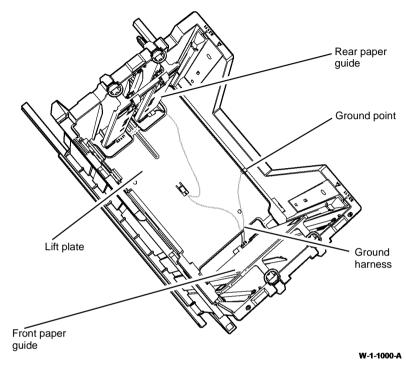


Figure 20 Tray 4 grounding

- Empty tray 3 of paper. Refer to Figure 21. Check for continuity of less than 10k ohms between the ground point and the points that follow:
 - Lift plate.
 - · Front paper guide
 - Rear paper guide.

To improve continuity, disconnect and clean the ground harness connectors, then re-connect.

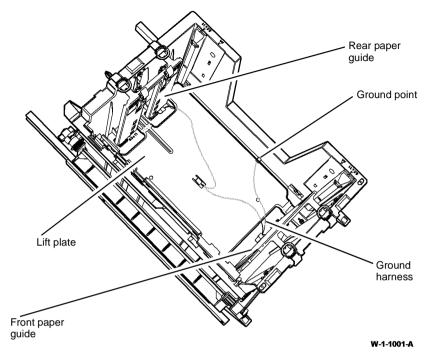


Figure 21 Tray 3 grounding

301B 0V Distribution RAP

Use this RAP to identify 0V distribution faults.

Procedural Notes

- If a voltage is measured between ground and a return 0V line, then the continuity of that 0V circuit must be checked.
- To isolate a 0V distribution fault, perform the checks that follow:
 - Check the continuity of a harness while the harness is disconnected at both ends.
 This is to ensure that other wiring does not cause false continuity readings.
 - Check the continuity and perform a visual inspection of each connection sequentially, back to its source.
 - 3. Check that any in-line connectors are installed correctly.
 - Check that all connectors are mechanically good. Check crimping for suspect electrical connections or any mechanical failure that could cause a failed or poor electrical contact, GP 7. Refer to REP 1.2 for information concerning wiring harness repairs.
- The expression 'return' is used to identify the 0V line that completes the circuit for a particular voltage.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the 0V circuit that has the suspect problem:

- +3.3V Return
- +5V Return
- +12V Return
- +24V Return

+3.3V Return

Go to the appropriate component in the list that follows that has the suspect 0V supply. Check the wiring GP 7.

- IOT PWB. PL 1.10 Item 2.
 - Flag 1, P/J776, P/J654.
- Bypass tray width sensor, Q75-601, PL 70.35 Item 8.
 - Flag 3, PJ585, PJ218, PJ217, PJ199, PJ198, P/J750.
 - Flag 1, P/J776, P/J654.
- SBC PWB PL 3.22 Item 3.
 - Flag 2, P/J850, P/J655.
- UI control PWB, PL 2.10 Item 6.
 - Flag 4, P/J130, P/J864.
 - Flag 2, P/J850, P/J655.
- Fax connector PWB, PL 20.05 Item 4.
 - Flag 5, P/J1, P/J880.

- Flag 2, P/J850, P/J655.
- Fax module, PL 20.05 Item 1.
 - Flag 5, P/J1, P/J880.
 - Flag 2, P/J850, P/J655.
- Foreign device interface PWB. PL 3.22 Item 18.
 - Flag 6, P/J16, P/J881.
 - Flag 2, P/J850, P/J655.
- Foreign device.
 - Flag 9, PJ124, P/J100.
 - Flag 6, P/J16, P/J881.
 - Flag 2, P/J850, P/J655.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.
 - Flag 8, P/J459, P/J418.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.

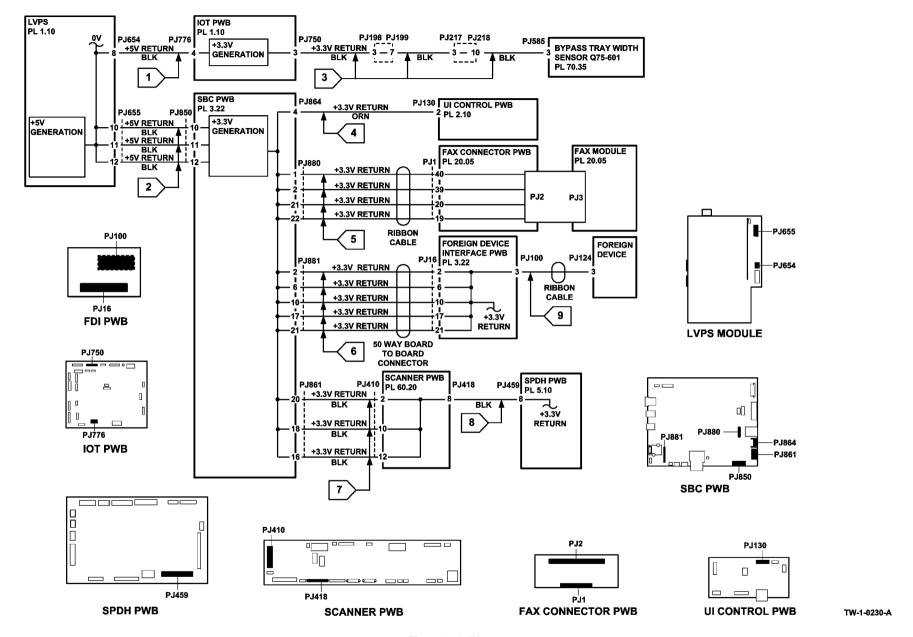


Figure 1 +3.3V return

+5V Return

Go to the appropriate component in the list that follows that has the suspect 0V supply. Check the wiring GP 7.

- IOT PWB. PL 1.10 Item 2.
 - Flag 10, P/J776, P/J654.
- Tray 1 stack height sensor, Q71-330, PL 80.26 Item 8.
 - Flag 21, PJ451, PJ178.
 - Flag 13, P/177, P/J751.
 - Flag 10, P/J776, P/J654.
- Tray 1 empty sensor, Q71-320, PL 80.26 Item 7.
 - Flag 22, PJ452, P/J178.
 - Flag 14, PJ177, P/J751.
 - Flag 10, P/J776, P/J654.
- Tray 2 stack height sensor, Q72-330, PL 80.26 Item 8.
 - Flag 23, PJ546, PJ179.
 - Flag 15, PJ180, P/J751.
 - Flag 10, P/J776, P/J654.
- Tray 2 empty sensor, Q72-320, PL 80.26 Item 7.
 - Flag 24, PJ547, PJ179.
 - Flag 16, PJ180, P/J751.
 - Flag 10, P/J776, P/J654.
- USB port harness, PL 2.10 Item 13.
 - Flag 17, PJ911, P/J867.
 - Flag 11, P/J850, P/J655.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 18, P/J410, P/J861.
 - Flag 11, P/J850, P/J655.
- Document size sensor 2, Q62-253, PL 60.20 Item 3.
 - Flag 25, PJ435, P/J422.
 - Flag 11, P/J850, P/J655.
- Document size sensor 1, Q62-251, PL 60.20 Item 3.
 - Flag 26, PJ434, P/J422.
 - Flag 11, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.
 - Flag 27, P/J460, P/J417.
 - Flag 18, P/J410, P/J861.
 - Flag 11, P/J850, P/J655.
- Last sheet out sensor, Q05-308, PL 5.30 Item 18.
 - Flag 29, PJ482, P/J463.
 - Flag 27, P/J460, P/J417.
 - Flag 18, P/J410, P/J861.
 - Flag 11, P/J850, P/J655.
- Fax connector PWB, PL 20.05 Item 4.

- Flag 19, P/J1, P/J880.
- Flag 11, P/J850, P/J655.
- Fax module PL 20.05 Item 1.
 - Flag 28, PJ3, P/J2.
 - Flag 19, P/J1, P/J880.
 - Flag 11, P/J850, P/J655.
- Hard disk drive. PL 3.22 Item 2.
 - Flag 20, PJ211, P/J852.
 - Flag 11, P/J850, P/J655.
- Main drive module. PL 40.15 Item 1.
 - Flag 12. P/J973. P/J656.
- (W/O TAG 010) Tray 3 level encoder, Q73-340, PL 70.21 Item 5.
 - Flag 35, PJ515, P/J755.
 - Flag 10, P/J776, P/J654.
 - HCF exit sensor, Q81-108, PL 80.32 Item 3.
 - Flag 36, PJ516, PJ248.
 - Flag 10, P/J776, P/J654.
- Tray 3 empty sensor, Q73-320, PL 80.32 Item 3.
 - Flag 37, PJ517, PJ251.
 - Flag 31, PJ250, PJ248.
 - Flag 10, P/J776, P/J654.
- Tray 3 feed sensor, Q81-103, PL 80.32 Item 3.
 - Flag 38, PJ518, PJ251.
 - Flag 32, PJ250, PJ248.
 - Flag 10, P/J776, P/J654.
- Tray 3 stack height sensor, Q73-330, PL 80.32 Item 6.
 - Flag 39, PJ519, PJ251.
 - Flag 33, PJ250, P/J248.
 - Flag 10, P/J776, P/J654.
- Tray 3 home sensor, Q73-300, PL 70.21 Item 4.
 - Flag 40, PJ520, PJ251.
 - Flag 34, PJ250, PJ248.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 control PWB, PL 70.21 Item 2.
 - Flag 30, P/J155, P/J775.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 010, W/O TAG 009) Tray 4 level encoder, Q74-340, PL 70.21 Item 5.
 - Flag 41, P/J156.
 - Flag 30, P/J155, P/J775.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 exit sensor, Q81-150, PL 80.33 Item 6.
 - Flag 42, P/J161.
 - Flag 30, P/J155, P/J775.

- Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 feed sensor, Q81-104, PL 80.33 Item 6.
 - Flag 43, P/J161.
 - Flag 30. P/J155. P/J775.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 empty sensor, Q74-320, PL 80.33 Item 6.
 - Flag 44, P/J157.
 - Flag 30, P/J155, P/J775.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 stack height sensor, Q74.330, PL 80.33 Item 7.
 - Flag 45, P/J157.
 - Flag 30, P/J155, P/J775.
 - Flag 10, P/J776, P/J654.
- (W/O TAG 009) Tray 4 home sensor, Q74-300, PL 70.21 Item 4.
 - Flag 46, P/J157.
 - Flag 30, P/J155, P/J775.
 - Flag 10, P/J776, P/J654.
- (W/TAG 009) Tray 4 exit sensor, Q81-150, PL 80.33 Item 6.
 - Flag 92, P/J786.
- (W/TAG 009) Tray 4 feed sensor, Q81-104, PL 80.33 Item 6.
 - Flag 93, P/J786.
- (W/TAG 009) Tray 4 empty sensor, Q74-320, PL 80.33 Item 6.
 - Flag 94, P/J786.
- (W/TAG 009) Tray 4 stack height sensor, Q74.330, PL 80.33 Item 7.
 - Flag 95, P/J786.
- (W/TAG 009) Tray 4 home sensor, Q74-300, PL 70.21 Item 4.
 - Flag 96, P/J786.
- (W/O TAG 013) Toner cartridge PWB, PL 90.17 Item 12.
 - Flag 47, P/J245, P/J782.
 - Flag 10, P/J776, P/J654.
- CRUM, part of the fuser module, PL 10.8 Item 1.
 - Flag 61, PJ409, PJ741, PJ740, PJ513, PJ187.
 - Flag 53, PJ188, P/J766.
 - Flag 10, P/J776, P/J654.
- CRUM, part of the print cartridge assembly, PL 90.17 Item 9.
 - Flag 61, PJ513, PJ187.
 - Flag 48, PJ188, P/J766.
 - Flag 10, P/J776, P/J654.
- Toner concentration sensor, part of the print cartridge assembly, PL 90.17 Item 9.
 - Flag 62, PJ510, PJ187.
 - Flag 48, PJ188, P/J766.
 - Flag 10, P/J776, P/J654.
- Duplex sensor, Q83-160, PL 80.10 Item 8.

- Flag 63, PJ580, PJ226.
- Flag 55, PJ227, P/J759.
- Flag 10, P/J776, P/J654.
- Trav 1 TAR sensor, Q81-001, PL 80.10 Item 5.
 - Flag 64, PJ584, PJ226.
 - Flag 51, PJ227, P/J750.
 - Flag 10, P/J776, P/J654.
- Tray 2 TAR sensor, Q82-001, PL 80.10 Item 5.
 - Flag 65, PJ583, PJ226.
 - Flag 52, PJ227, P/J750.
 - Flag 10, P/J776, P/J654.
- Bypass tray empty sensor, Q75-320 PL 70.35 Item 5.
 - Flag 66, PJ586, PJ218.
 - Flag 59, PJ217, PJ199.
 - Flag 53, PJ198, P/J750.
 - Flag 10, P/J776, P/J654.
- Bypass tray elevate sensor, Q75-040, PL 70.35 Item 20.
 - Flag 67, PJ587, PJ218.
 - Flag 60, PJ217, PJ199.
 - Flag 54, PJ198, P/J750.
 - Flag 10, P/J776, P/J654.
- Post fuser sensor, Q10-120, PL 10.12 Item 7.
 - Flag 68, PJ972, PJ185.
 - Flag 55, PJ184, P/J761.
 - Flag 10, P/J776, P/J654.
- Offset sensor, Q10-300, PL 10.11 Item 8.
 - Flag 69, P/J971, PJ185.
 - Flag 56, PJ184, P/J761.
 - Flag 10, P/J776, P/J654.
- Horizontal transport entry sensor, Q10-041, PL 10.15 Item 8.
 - Flag 57, PJ960, P/J773.
 - Flag 10, P/J776, P/J654.
- Horizontal transport interlock, Q10-042, PL 10.15 Item 16.
 - Flag 58, PJ962, P/J773.
 - Flag 10, P/J776, P/J654.
- Registration sensor, Q82-150, PL 80.17 Item 7.
 - Flag 70, PJ984, P/J763.
 - Flag 10, P/J776, P/J654.
- Environmental sensors PWB, PL 80.17 Item 8.
 - Flag 71, PJ982, P/J763.
 - Flag 10, P/J776, P/J654.

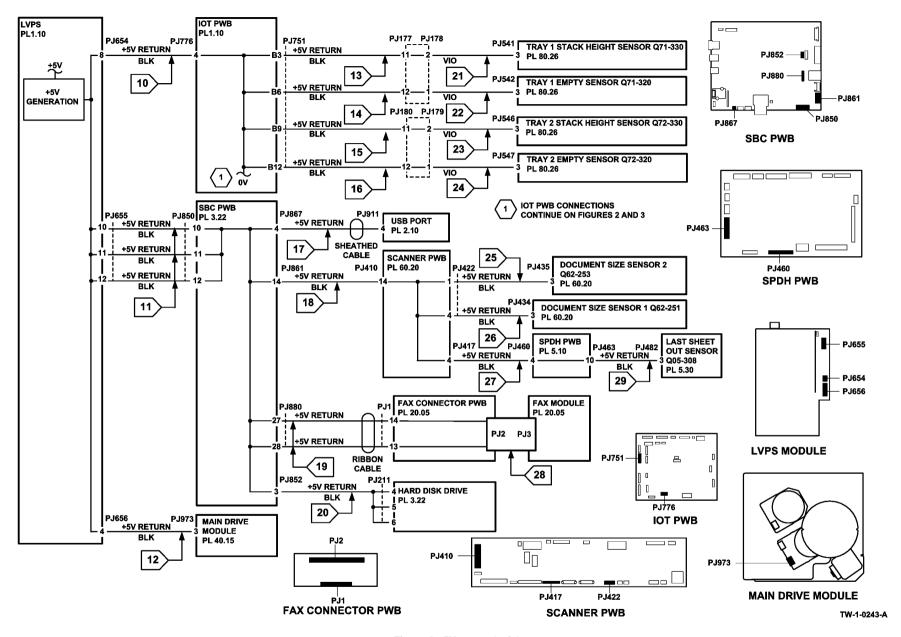
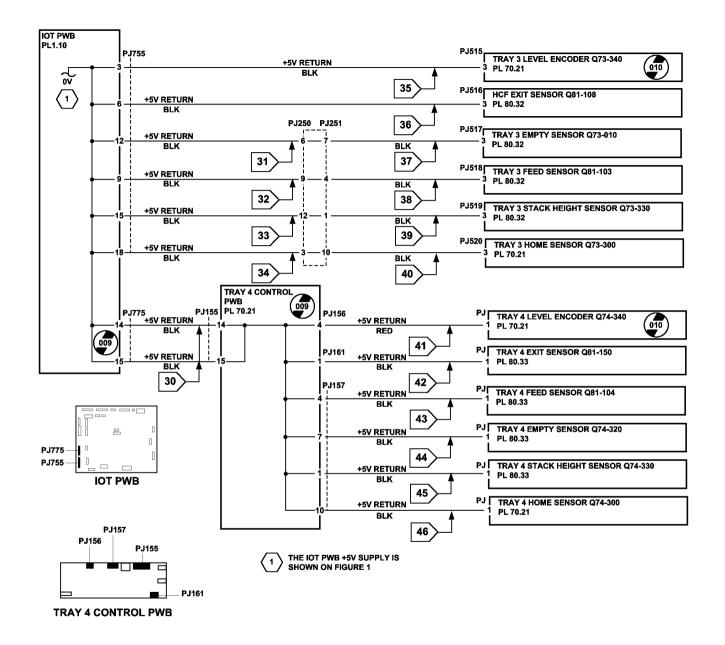


Figure 2 +5V return 1 of 4



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Figure 3 +5V return 2 of 4

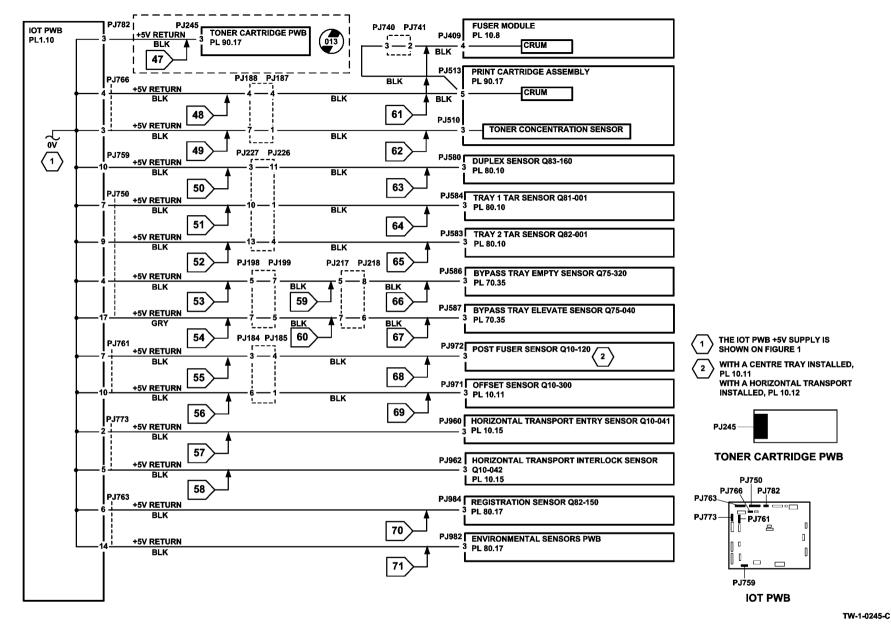
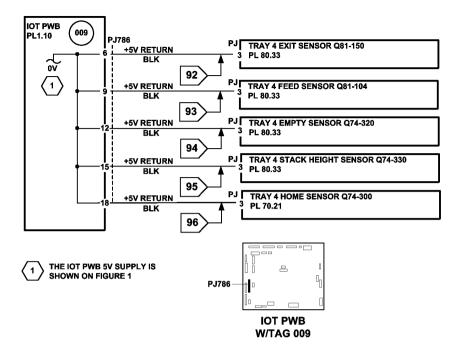


Figure 4 +5V return 3 of 4



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Figure 5 +5V return 4 of 4

+12V Return

Go to the appropriate component in the list that follows that has the suspect 0V supply. Check the wiring GP 7.

- UI control PWB, PL 2.10 Item 6.
 - Flag 73, P/J130, P/J864.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 74, P/J410, P/J861.

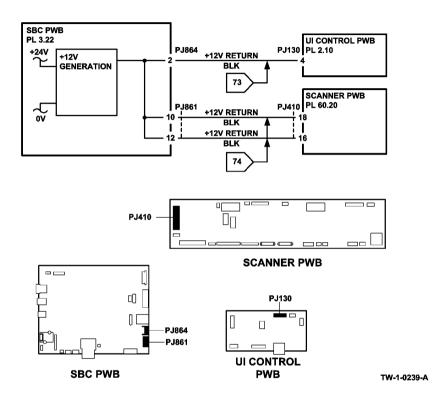


Figure 6 +12V Return

+24V Return

Go to the appropriate component in the list that follows that has the suspect 0V supply. Check the wiring GP 7.

- IOT PWB. PL 1.10 Item 2.
 - Flag 75, P/J776, P/J654.
- HVPS, PL 1.10 Item 3.
 - Flag 78, P/J830, P/J769.
 - Flag 75, P/J776, P/J654.
- Toner cartridge motor, part of the toner dispense module, PL 90.17 Item 1.
 - Flag 79, P/J512, P/J767.
 - Flag 75, P/J776, P/J654.
- (W/TAG 009 only) Tray 4 control PWB,PL 70.21 Item 2.
 - Flag 76, P/J158, P/J656.
- Main drive module, PL 40.15 Item 1.
 - Flag 77, P/J973, P/J656.
 - Flag 80, PJ621, PJ623.
- SBC PWB, PL 3.22 Item 3.
 - Flag 81, P/J850, P/J655.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- Scanner CCD PWB, PL 60.25 Item 4.
 - Flag 83, P/J446, P/J416.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- Scanner LED drive PWB, PL 60.25 Item 6.
 - Flag 86, P/J448, P/J447.
 - Flag 83, P/J446, P/J416.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- Cooling fan, PL 60.15 Item 6.
 - Flag 84, P/J424.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.
 - Flag 85, P/J459, P/J418.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- Side 2 CCD PWB, PL 60.30 Item 4.
 - Flag 87, P/J452, P/J458.
 - Flag 85, P/J459, P/J418.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.

- Side 2 LED drive PWB, PL 5.10 Item 17.
 - Flag 91, P/J454, P/J492.
 - Flag 90, P/J456, P/J453.
 - Flag 87, P/J452, P/J458.
 - Flag 85, P/J459, P/J418.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- LED cooling fan, PL 5.18 Item 8.
 - Flag 88, PJ484, PJ483, P/J471.
 - Flag 85, P/J459, P/J418.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.
- Motor cooling fan, PL 5.18 Item 7.
 - Flag 89, P/J470.
 - Flag 85, P/J459, P/J418.
 - Flag 82, P/J410, P/J861.
 - Flag 81, P/J850, P/J655.

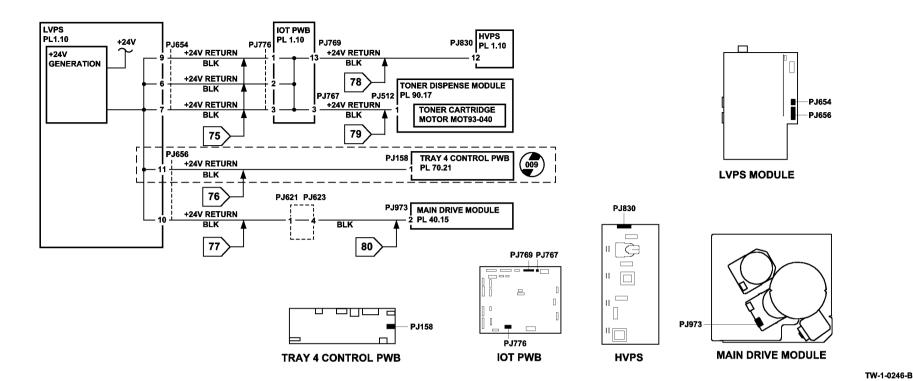
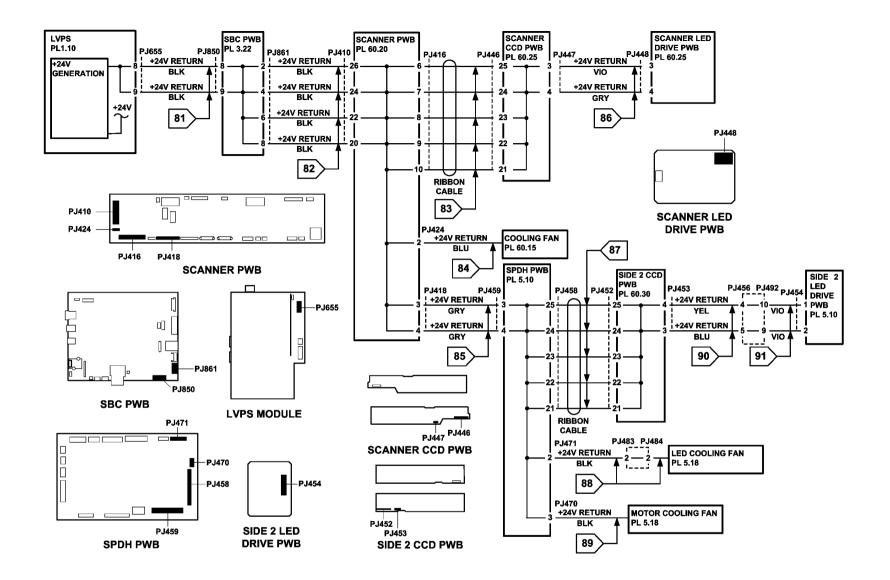


Figure 7 +24V return 1 of 2



TW-1-0247-A

Figure 8 +24V return 2 of 2

301C AC Power RAP

Use this RAP to identify AC power input and output failures.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Incorrect voltage may damage the machine. The machine must not be connected to the power outlet if the voltage is incorrect.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.

Check the AC mains (line) voltage at the customer power outlet. The voltage measured is within the electrical power requirements, GP 22.

ΥI

If the voltage is incorrect, or the wiring of the main supply is found to be defective, inform your technical manager and the customer. Do not attempt to repair or adjust the customer supply.

Check the main power cord for continuity and damage. The main power cord is good.

′ N

Install a new main power cord, PL 1.10 Item 8.

Switch on the machine, GP 14. Go to Flag 1. Measure the voltage at the power outlet, P/J652, Figure 1. The voltage measured is within the electrical power requirements, GP 22.

Y N

Go to Flag 2. Check for the AC voltage at P/J650 on the LVPS, Figure 1. The AC voltage is present.

N

в с

Switch off the machine, GP 14. Disconnect the power cord from the LVPS. Measure the resistance between ACL and ACN at P/J651 on the LVPS, Figure 1. **The resistance reading is greater than 1M Ohms.**

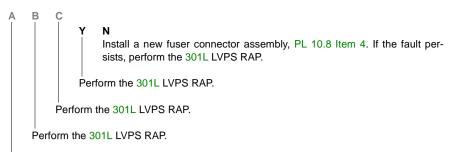
Y N

Remove the fuser module. On the fuser module, measure the resistance between pins 8 and 7 and 8 and 9. Refer to Figure 3. **The reading is 3 to 9 ohms.**

Y N

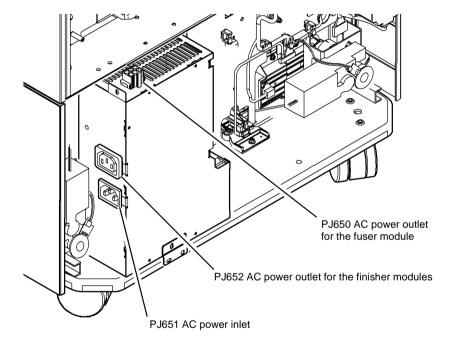
Install a new fuser module, PL 10.8 Item 1. If the fault persists, perform the 301L LVPS RAP.

Go to Flag 2. Check the wire harness between P/J650 and PJ100, Figure 2. The harness is good.



Check the power cords to the output device:

- 2K LCSS, PL 12.75 Item 8.
- LVF BM, PL 12.425 Item 4.



W-1-1006-A

Figure 1 AC input and output

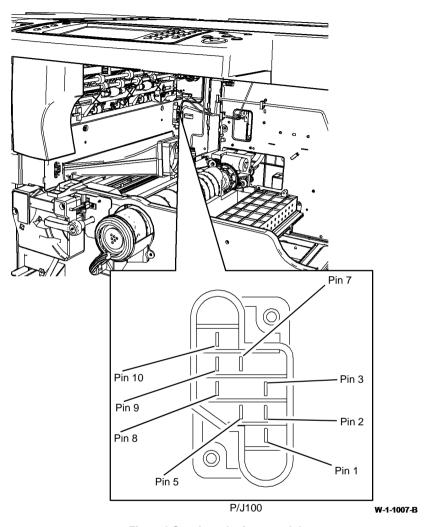


Figure 2 Supply to the fuser module

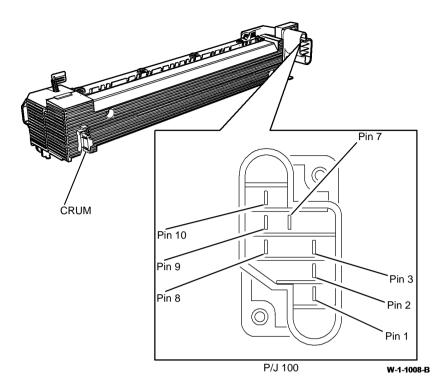
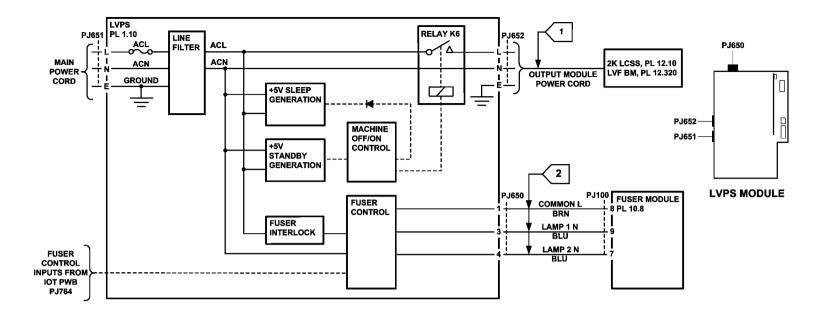


Figure 3 Fuser module



TW-1-0242-A

Figure 4 AC circuit diagram

301D +3.3V Distribution RAP

Use this RAP to identify +3.3V distribution problems.

NOTE: Short circuit or overload of the +3.3V supply from the IOT PWB will result in all +3.3V outputs off from IOT PWB only.

NOTE: Short circuit or overload of the +3.3V supply from the SBC PWB will result in all +3.3V outputs off from SBC PWB only.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to Figure 1. Go to the appropriate component in the list that follows that has a suspect +3.3V supply. Check the wiring, GP 7.

- IOT PWB, PL 1.10 Item 2.
 - Flag 1, P/J776, P/J654.
- Bypass tray width sensor Q75-601, part of the bypass tray, PL 70.35 Item 8.
 - Flag 3, PJ585, PJ218, PJ217, PJ199, PJ198, P/J750.
 - Flag 1, P/J776, P/J654.
- SBC PWB. PL 3.22 Item 3.
 - Flag 2, P/J850, P/J655.
- UI control PWB, PL 2.10 Item 6.
 - Flag 4, P/J130, P/J864.
 - Flag 2, P/J850, P/J655.
- Fax connector PWB, PL 20.05 Item 4.
 - Flag 5, P/J1, P/J880.
 - Flag 2, P/J850, P/J655.
- Fax module, PL 20.05 Item 1.
 - Flag 5, PJ3, P/J2, P/J1, P/J880.
 - Flag 2, P/J850, P/J655.
- Foreign device interface PWB, PL 3.22 Item 18.
 - Flag 6, P/J16, P/J881.
 - Flag 2, P/J850, P/J655.
- Foreign device.
 - Flag 9, PJ124, P/J100.
 - Flag 6, P/J16, P/J881.
 - Flag 2, P/J850, P/J655.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.

- Flag 8, P/J459, P/J418.
- Flag 7, P/J410, P/J861.
- Flag 2, P/J850, P/J655.
- Side 2 registration sensor Q05-343, PL 60.30 Item 8.
 - Flag 10, PJ500, PJ456, PJ492, P/J466.
 - Flag 8, P/J459, P/J418.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- DH registration sensor Q05-340, PL 5.18 Item 11.
 - Flag 11, PJ491, P/J467.
 - Flag 8, P/J459, P/J418.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- DH feed sensor Q05-330, PL 5.20 Item 10.
 - Flag 12, PJ498, P/J465.
 - Flag 8, P/J459, P/J418.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- DH takeaway sensor Q05-335, PL 5.20 Item 10.
 - Flag 13, PJ497, P/J465.
 - Flag 8, P/J459, P/J418.
 - Flag 7, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.

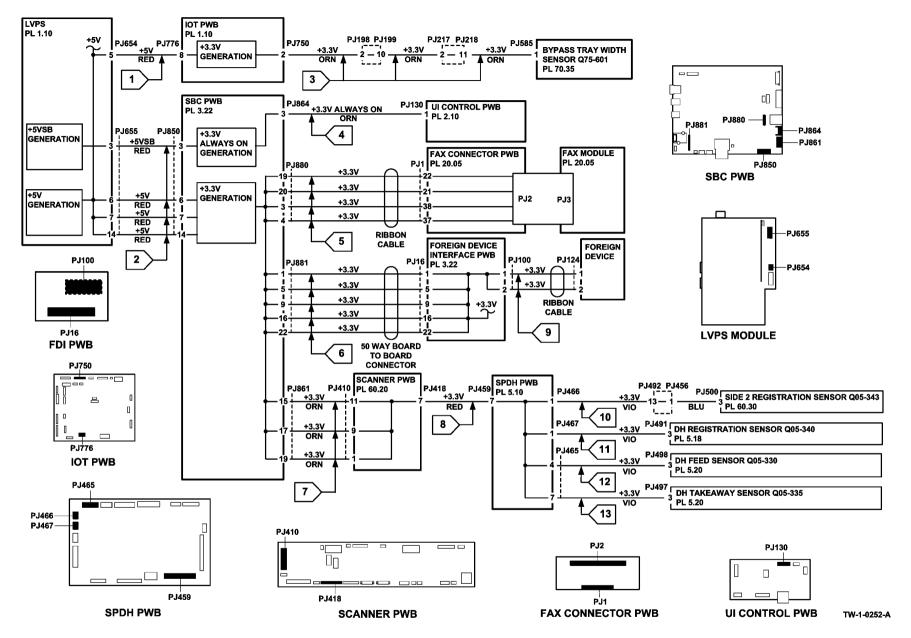


Figure 1 +3.3V distribution

301E +5V and +5VSB Distribution RAP

Use this RAP to identify +5V and +5VSB distribution problems.

NOTE:

- Short circuit or overload of +5VSB (standby) will result in all voltage outputs from the LVPS off. When the short circuit or overload is removed all the outputs will recover to normal operating voltages after 10 seconds.
- Short circuit or overload of +5V will result in +5V output from the LVPS off. When the short
 circuit or overload is removed the output will recover to normal operating voltage after 10
 seconds.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the appropriate component in the list that follows that has the suspect +5V supply. Check the wiring GP 7.

- IOT PWB, PL 1.10 Item 2.
 - Flag 1, P/J776, P/J654.
- Tray 1 stack height sensor, Q71-330, PL 80.26 Item 8.
 - Flag 12, PJ541, PJ178.
 - Flag 4, PJ177, P/J751.
 - Flag 1, P/J776, P/J654.
- Tray 1 empty sensor, Q71-320, PL 80.26 Item 7.
 - Flag 13, PJ542, PJ178.
 - Flag 5, PJ177 P/J751.
 - Flag 1, P/J776, P/J654.
- Tray 2 stack height sensor, Q72-330, PL 80.26 Item 8.
 - Flag 14, PJ546, PJ179.
 - Flag 6, PJ180, P/J751.
 - Flag 1, P/J776, P/J654.
- Tray 2 empty sensor, Q72-320, PL 80.26 Item 7.
 - Flag 15, PJ547, PJ179.
 - Flag 7, PJ180, P/J751.
 - Flag 1, P/J776, P/J654.
- SBC PWB (+5V and +5VSB), PL 3.22 Item 3.
 - Flag 2, P/J850, P/J655.
- USB port, PL 2.10 Item 13.
 - Flag 8, PJ911, P/J867.
 - Flag 2, P/J850, P/J655.
- Scanner PWB. PL 60.20 Item 4.
 - Flag 9, P/J410, P/J861.

- Flag 2, P/J850, P/J655.
- Document size sensor 2, Q62-253, PL 60.20 Item 3.
 - Flag 16, PJ435, P/J422.
 - Flag 9, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- Document size sensor 1, Q62-251, PL 60.20 Item 3.
 - Flag 17, PJ434, P/J422.
 - Flag 9. P/J410. P/J861.
 - Flag 2, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.
 - Flag 18, P/J460, P/J417.
 - Flag 9, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- Last sheet out sensor, Q05-308, PL 5.30 Item 18.
 - Flag 20, PJ482, P/J463.
 - Flag 18, P/J460, P/J417.
 - Flag 9, P/J410, P/J861.
 - Flag 2, P/J850, P/J655.
- Fax connector PWB, PL 20.05 Item 4.
 - Flag 10, P/J1, P/J880.
 - Flag 2, P/J850, P/J655.
- Fax module, PL 20.05 Item 1.
 - Flag 19, PJ3, P/J2.
 - Flag 10, P/J1, P/J880.
 - Flag 2, P/J850, P/J655.
- Hard disk drive, PL 3.22 Item 2.
 - Flag 11, PJ211, P/J852.
 - Flag 2, P/J850, P/J655.
- Main drive module, PL 40.15 Item 1.
 - Flag 3, P/J973, PJ621, PJ623, P/J656.
- HCF exit sensor, Q81-108, PL 80.32 Item 3.
 - Flag 25, PJ516, PJ248.
 - Flag 1, P/J776, P/J654.
- Tray 3 empty sensor, Q73-320, PL 80.32 Item 3.
 - Flag 26, PJ517, PJ251.
 - Flag 21, PJ250, PJ248.
 - Flag 1, P/J776, P/J654.
- Tray 3 feed sensor, Q81-103, PL 80.32 Item 3.
 - Flag 27, PJ519, PJ251.
 - Flag 22, PJ250, PJ248.
 - Flag 1, P/J776, P/J654.
- Tray 3 stack height sensor, Q73-330, PL 80.32 Item 6.
 - Flag 28, PJ519, PJ251.

- Flag 23, PJ250, PJ248.
- Flag 1, P/J776, P/J654.
- Tray 3 home sensor, Q73-300, PL 70.21 Item 4.
 - Flag 29, PJ520, PJ251.
 - Flag 24, PJ250, PJ248.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 control PWB, PL 70.21 Item 2.
 - Flag 20. P/J155. P/J775.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 exit sensor, Q81-150, PL 80.33 Item 6.
 - Flag 30, P/J161.
 - Flag 20, P/J155, P/J775. Refer also to GP 30.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 feed sensor, Q81-104, PL 80.33 Item 6.
 - Flag 31, P/J157.
 - Flag 20, P/J155, P/J775. Refer also to GP 30.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 empty sensor, Q74-320, PL 80.33 Item 6.
 - Flag 32, P/J157.
 - Flag 20, P/J155, P/J775. Refer also to GP 30.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 stack height sensor, Q74-330, PL 80.33 Item 7.
 - Flag 33, P/J157.
 - Flag 20, P/J155, P/J775. Refer also to GP 30.
 - Flag 1, P/J776, P/J654.
- (W/O TAG 009) Tray 4 home sensor, Q74-300, PL 70.21 Item 4.
 - Flag 34, P/J157.
 - Flag 20, P/J155, P/J775. Refer also to GP 30.
 - Flag 1, P/J776, P/J654.
- (W/TAG 009) Tray 4 exit sensor, Q81-150, PL 80.33 Item 6.
 - Flag 60, P/J786.
- (W/TAG 009) Tray 4 feed sensor, Q81-104, PL 80.33 Item 6.
 - Flag 61, P/J786.
- (W/TAG 009) Tray 4 empty sensor, Q74-320, PL 80.33 Item 6.
 - Flag 62, P/J786.
- (W/TAG 009) Tray 4 stack height sensor, Q74-330, PL 80.33 Item 7.
 - Flag 63, P/J786.
- (W/TAG 009) Tray 4 home sensor, Q74-300, PL 70.21 Item 4.
 - Flag 64, P/J786.
- (W/O TAG 013) Toner cartridge PWB, PL 90.17 Item 12.
 - Flag 35, P/J245, P/J782.
 - Flag 1, P/J776, P/J654.
- Fuser module (CRUM), PL 10.8 Item 1.

- Flag 49, PJ409, PJ741, PJ740, PJ513, PJ187.
- Flag 36, PJ188, P/J766.
- Flag 1, P/J776, P/J654.
- Print cartridge assembly (CRUM), PL 90.17 Item 9.
 - Flag 49, PJ513, PJ187.
 - Flag 36, PJ188, P/J766.
 - Flag 1, P/J776, P/J654.
- Toner concentration sensor, part of the print cartridge assembly, PL 90.17 Item 9.
 - Flag 50, PJ510, PJ187.
 - Flag 37, PJ188, P/J766.
 - Flag 1, P/J776, P/J654.
- Duplex sensor, Q83-160, PL 80.10 Item 8.
 - Flag 51, PJ580, PJ226.
 - Flag 38, PJ227, P/J759.
 - Flag 1, P/J776, P/J654.
- Tray 1 TAR sensor, Q81-001, PL 80.10 Item 5.
 - Flag 52, PJ584, PJ226.
 - Flag 39, PJ227, P/J750.
 - Flag 1, P/J776, P/J654.
- Tray 2 TAR sensor, Q82-001, PL 80.10 Item 5.
 - Flag 53, PJ583, PJ226.
 - Flag 40, PJ227, P/J750.
 - Flag 1. P/J776. P/J654.
- Bypass tray paper empty sensor, Q75-320, PL 70.35 Item 5.
 - Flag 54, PJ586, PJ213.
 - Flag 47, PJ217, PJ199.
 - Flag 41, PJ198, P/J750.
 - Flag 1, P/J776, P/J654.
- Bypass tray elevate sensor, Q75-040, PL 70.35 Item 20.
 - Flag 55, PJ587, PJ213.
 - Flag 48, PJ217, PJ199.
 - Flag 42, PJ198, P/J750.
 - Flag 1, P/J776, P/J654.
- Post fuser sensor, Q10-120, PL 10.11 Item 7.
 - Flag 56, PJ972, PJ185.
 - Flag 43, PJ184, P/J761.
 - Flag 1, P/J776, P/J654.
- Offset sensor, Q10-300, PL 10.11 Item 8.
 - Flag 57, PJ971, PJ185.
 - Flag 44, PJ184, P/J761.
 - Flag 1, P/J776, P/J654.
- Horizontal transport entry sensor, Q10-041, PL 10.15 Item 8.
 - Flag 45, PJ960, P/J773.

- Flag 1, P/J776, P/J654.
- Horizontal transport interlock, Q10-042, PL 10.15 Item 16.
 - Flag 46, PJ962, P/J773.
 - Flag 1, P/J776, P/J654.
- Registration sensor, Q82-150, PL 80.17 Item 7.
 - Flag 58, PJ984, P/J763.
 - Flag 1, P/J776, P/J654.
- Environmental sensors, ambient temperature sensor, Q91-602 and humidity sensor, Q91-601, PL 80.17 Item 8.
 - Flag 59, PJ982, P/J763.
 - Flag 1, P/J776, P/J654.

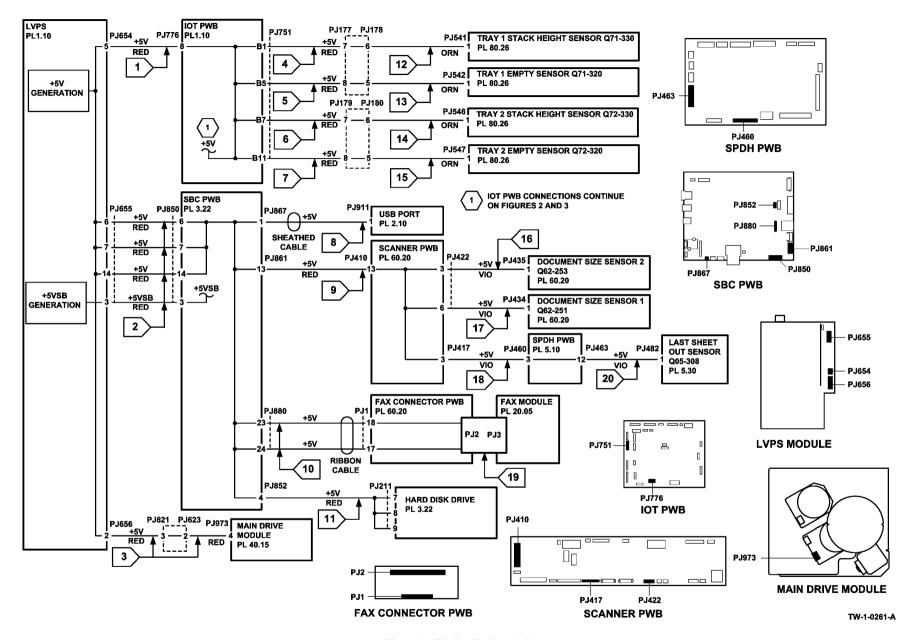
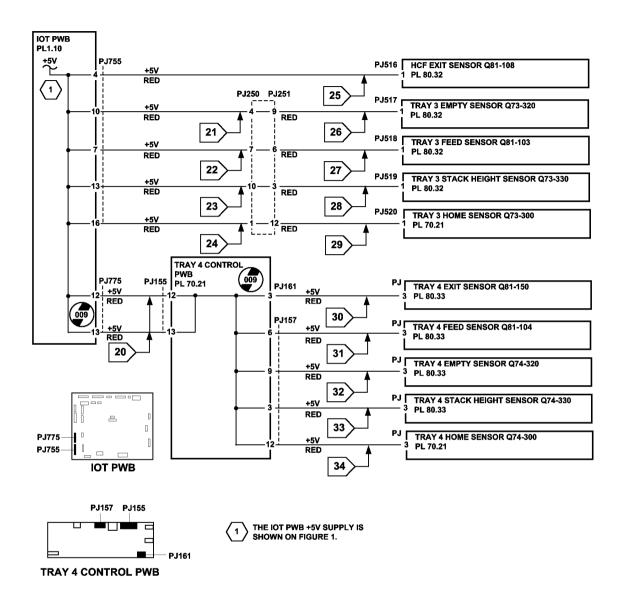


Figure 1 +5V distribution 1 of 4



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Figure 2 +5V distribution 2 of 4

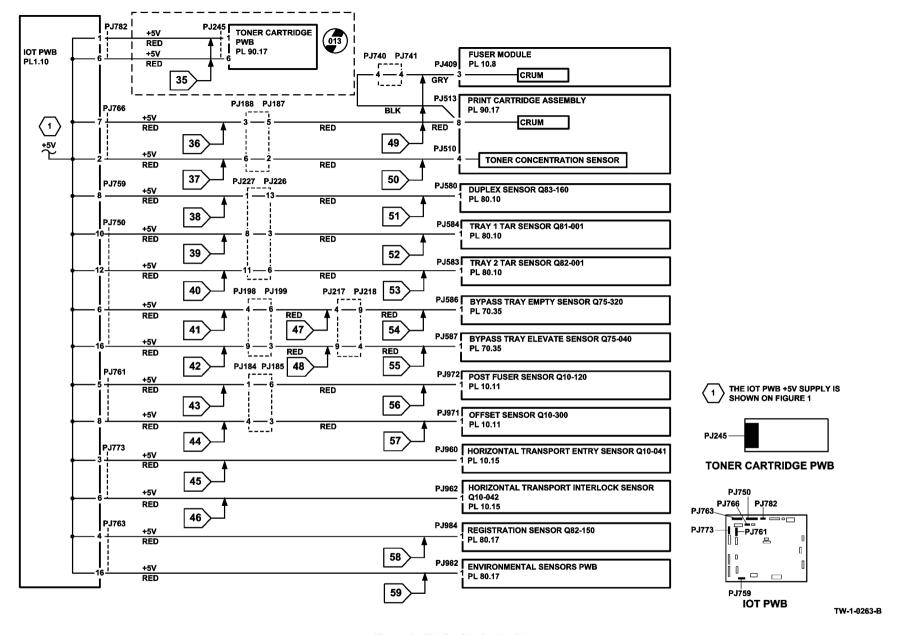
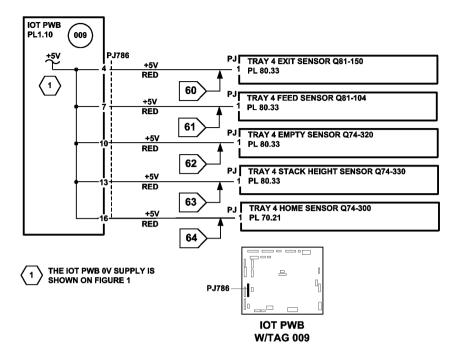


Figure 3 +5V distribution 3 of 4



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Figure 4 +5V distribution 4 of 4

301F +12V Distribution RAP

Use this RAP to identify +12V distribution problems.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the appropriate component in the list that follows that has the suspect +12V supply. Check the wiring GP 7.

- UI control PWB, PL 2.10 Item 6.
 - Flag 1, P/J130, P/J864.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 2, P/J410, P/J861.

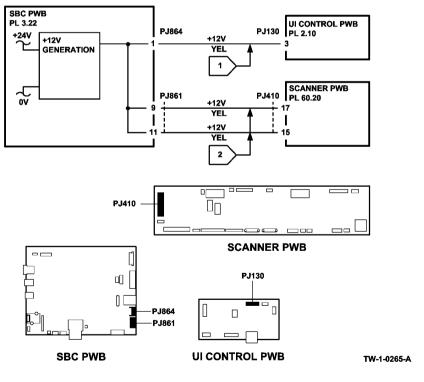


Figure 1 +12V Distribution

301G +24V Distribution RAP

Use this RAP to identify +24V distribution problems.

NOTE: Short circuit or overload of +24V will result in +24V output from the LVPS off. When the short circuit or overload is removed the output will recover to normal operating voltage after 10 seconds.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the appropriate component in the list that follows that has the suspect +24V supply. Check the wiring GP 7.

- IOT PWB. PL 1.10 Item 2.
 - Flag 1, P/J776, P/J654.
- HVPS. PL 1.10 Item 3.
 - Flag 2, P/J830, P/J769.
 - Flag 1, P/J776, P/J654.
- Toner cartridge motor, MOT93-040, part of the main drive module, PL 40.15 Item 1.
 - Flag 3, PJ512, P/J767.
 - Flag 1, P/J776, P/J654.
- Tray 1 elevate/feed motor, MOT71-010, PL 80.26 Item 6.
 - Flag 5, PJ540, PJ178.
 - Flag 4, PJ177, P/J752.
 - Flag 1, P/J776, P/J654.
- Tray 2 elevate/feed motor, MOT72-010, PL 80.26 Item 6.
 - Flag 7, PJ545, PJ179.
 - Flag 6, PJ180, P/J752.
 - Flag 1, P/J776, P/J654.
- TAR/bypass tray motor, PL 80.25 Item 5.
 - Flag 8, PJ539, P/J754.
 - Flag 1, P/J776, P/J654.
- Bypass tray clutch, PL 70.35 Item 9.
 - Flag 9, PJ595, PJ218, PJ217, PJ199, PJ198, P/J757.
 - Flag 1, P/J776, P/J654.
- Print cartridge fan, MOT80-016, PL 90.15 Item 2.
 - Flag 10, PJ529, P/J783.
 - Flag 1, P/J776, P/J654.
- Inverter gate solenoid, SOL10-045, PL 10.13 Item 8.
 - Flag 11, PJ970, P/J762.
 - Flag 1, P/J776, P/J654.
- Left door fan 2. PL 80.11 Item 9.

- Flag 12, PJ581, PJ226, PJ227, P/J759.
- Flag 1, P/J776, P/J654.
- Left door fan 1, PL 80.11 Item 9.
 - Flag 13, PJ582, PJ226, PJ227, P/J759.
 - Flag 1, P/J776, P/J654.
- Tray 3 elevator motor, MOT73-010, PL 70.21 Item 1.
 - Flag 15, PJ508, P/J756.
 - Flag 14. P/J776. P/J654.
- Tray 3 feed clutch, CL81-033, PL 80.32 Item 19.
 - Flag 16, PJ507, P/J756.
 - Flag 14, P/J776, P/J654.
- Tray 3 feed motor, MOT81-030, PL 80.32 Item 8.
 - Flag 17, PJ505, P/J756.
 - Flag 14, P/J776, P/J654.
- HCF transport motor, MOT81-045, PL 80.36 Item 13.
 - Flag 18, PJ506, P/J756.
 - Flag 14, P/J776, P/J654.
- (W/O TAG 003 Only) Tray 3 over elevate switch, PL 80.32 Item 7.
 - Flag 19, PJ514, P/J756.
 - Flag 14, P/J776, P/J654.
- (W/O TAG 009) Tray 4 control PWB, PL 70.21 Item 2.
 - Flag 20, P/J158, P/J656.
- (W/O TAG 009), (W/O TAG 004 Only) Tray 4 over elevate switch, PL 80.33 Item 8.
 - Flag 21, P/J159.
 - Flag 20, P/J158, P/J656. Refer also to GP 30.
- (W/O TAG 009) Tray 4 elevator motor, MOT74-010, PL 70.21 Item 1.
 - Flag 22, P/J160.
 - Flag 20, P/J158, P/J656. Refer also to GP 30.
- (W/O TAG 009) Tray 4 feed clutch, CL81-043, PL 80.33 Item 21.
 - Flag 23, Flag 24, P/J162.
 - Flag 20, P/J158, P/J656. Refer also to GP 30.
- (W/O TAG 009) Tray 4 feed motor, MOT81-040, PL 80.33 Item 10.
 - Flag 25, P/J162.
 - Flag 20, P/J158, P/J656. Refer also to GP 30.
- (W/TAG 009) Tray 4 feed clutch, CL81-043, PL 80.33 Item 21.
 - Flag 40, P/J785.
- (W/TAG 009) Tray 4 elevator motor, MOT74-010, PL 70.21 Item 1.
 - Flag 41, P/J785.
- (W/TAG 009) Tray 4 feed motor, MOT81-040, PL 80.33 Item 10.
 - Flag 42, P/J785.
- Main Drive Module, PL 40.15 Item 1.
 - Flag 20, P/J973, PJ623, PJ621, P/J656.
- SBC PWB, PL 3.22 Item 3.

- Flag 26, P/J850, P/J655.
- Scanner PWB, PL 60.20 Item 4.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Scanner CCD PWB, PL 60.25 Item 4.
 - Flag 29, P/J446, P/J416.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Scanner LED drive PWB, PL 60.25 Item 6.
 - Flag 28, P/J448, P/J447.
 - Flag 29, P/J446, P/J416.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- SPDH PWB, PL 5.10 Item 5.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Side 2 CCD PWB, PL 60.30 Item 4.
 - Flag 31, P/J452, P/J458.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Side 2 LED drive PWB, PL 5.10 Item 17.
 - Flag 33, P/J454, PJ492.
 - Flag 32, PJ456, P/J453.
 - Flag 31, P/J452, P/J458.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Cooling fan, PL 60.15 Item 6.
 - Flag 34, P/J424.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Top cover interlock switch, PL 5.10 Item 13.
 - Flag 35, P/J461.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Motor cooling fan, PL 5.18 Item 7.
 - Flag 36, P/J470.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.

- LED cooling fan, PL 5.18 Item 8.
 - Flag 37, PJ484, PJ483, P/J471.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Feed clutch, CL05-025, PL 5.18 Item 4.
 - Flag 38, PJ486, PJ485, P/J471.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.
- Takeaway clutch, CL05-425, PL 5.18 Item 4.
 - Flag 39, PJ488, PJ487, P/J471.
 - Flag 30, P/J459, P/J418.
 - Flag 27, P/J410, P/J861.
 - Flag 26, P/J850, P/J655.

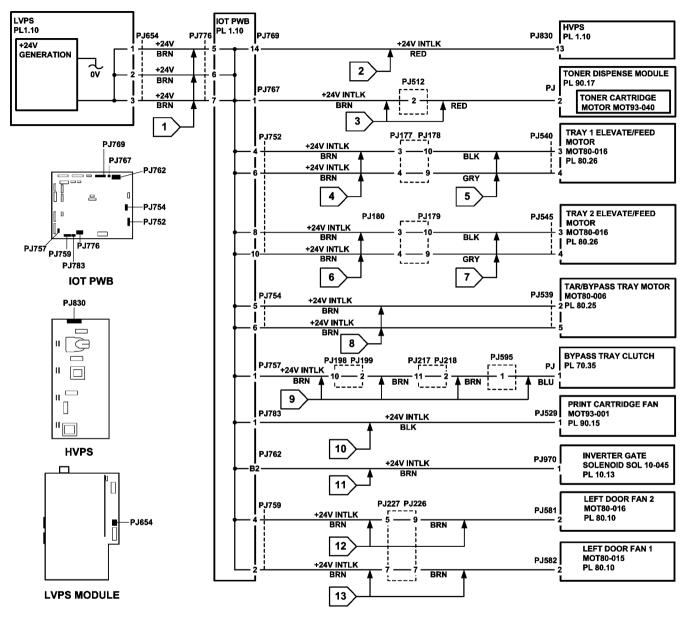


Figure 1 +24V Distribution 1 of 4

TW-1-0266-A

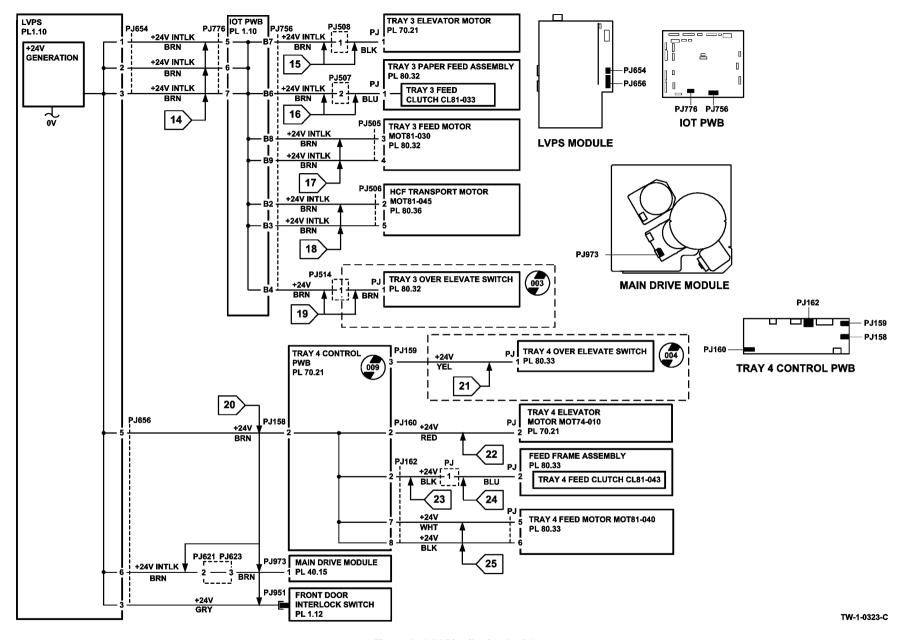
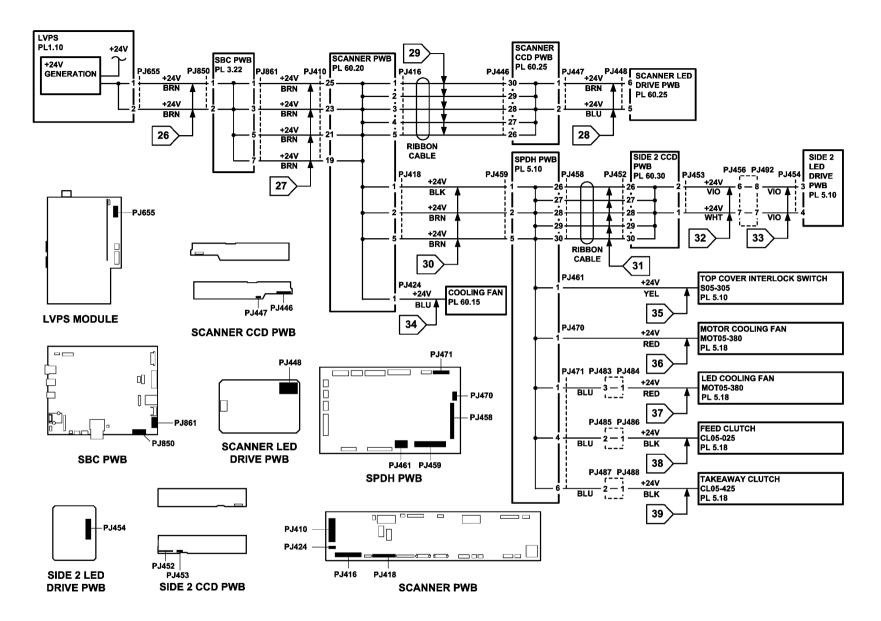
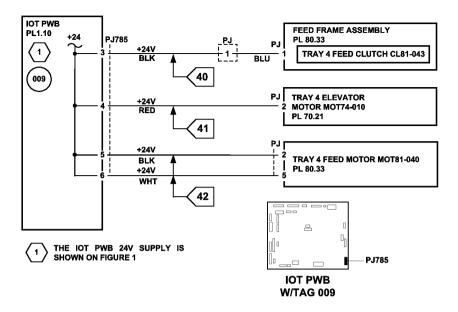


Figure 2 +24V Distribution 2 of 4



TW-1-0267-B

Figure 3 +24V Distribution 3 of 4



TW-1-0335-A

Figure 4 +24V Distribution 4 of 4

301H Short Circuit and Overload RAP

Use this RAP to locate the source of short circuits or overloads that cause the LVPS to shut down. Refer to the Procedural Notes to understand the behaviour of the LVPS when a short circuit, overload or over voltage exists.

Initial Actions

Perform the 301L LVPS RAP to ensure the voltage outputs from the LVPS are good.

Procedural Notes

- The LEDs, Figure 1, CR13, CR16 and CR51 on the IOT PWB are used to indicate that a supply voltage is available. Refer to the OF7 IOT PWB Diagnostics RAP.
- Short circuit or overload of +5VSB (standby) results in all voltage outputs from the LVPS shutting down. When the short circuit or overload is removed all the outputs will recover to normal operating voltages after 10 seconds.
- Short circuit or overload of +5V results in all outputs from the LVPS shutting down except
 the +5VSB. The green LVPS indicator LED will extinguish and the red LVPS indicator
 LED will flash code 2 or 5. When the short circuit or overload is removed the output will
 recover to normal operating voltage after 10 seconds, the red LVPS indicator LED will
 extinguish and the green LVPS indicator LED will illuminate.
- Short circuit or overload of +24V or +24V INTLK results in +24V and +24V INTLK outputs
 from the LVPS shutting down. The green LVPS indicator LED will extinguish and the red
 LVPS indicator LED will flash code 1 or code 3. When the short circuit or overload is
 removed the outputs will recover to normal operating voltage after 10 seconds, the red
 LVPS indicator LED will extinguish and the green LVPS indicator LED will illuminate.
- If +5VSB or +5V are over voltage, all LVPS outputs will shut off except the +5VSB. The
 green LVPS indicator LED will extinguish and the red LVPS indicator LED will flash code
 8. To restore to normal voltages, switch off the machine, GP 14. Wait 20 seconds. Switch
 on the machine, the red LVPS indicator LED will extinguish and the green LVPS indicator
 LED will illuminate.
- If the +24V or +24V INTLK is over voltage, all outputs from the LVPS will shut down
 except the +5VSB. The green LVPS indicator LED will extinguish and the red LVPS indicator LED will flash code 9. To restore to normal voltage, switch off the machine, GP 14.
 Wait 20 seconds. Switch on the machine, the red LVPS indicator LED will extinguish and
 the green LVPS indicator LED will illuminate.
- +3.3V is generated on the IOT PWB to supply internal components and sensors.
- +3.3V is generated on the SBC PWB to supply internal components and sensors, also to supply the scanner PWB, SPDH PWB and sensors.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not install a fuse of a different type or rating. Installing the wrong type or rating of fuse can cause overheating and a risk of fire.

NOTE: Refer to Figure 3 and Figure 4 for an overview of the low voltage distribution harnesses within the machine.

NOTE: Refer to GP 7 Miscellaneous Checks at every disconnection and check that follows. If necessary, perform REP 1.2 Wiring Harness Repairs. If the wiring check proves that the wiring connectors are good, install new components that are at the end of the wiring.

Switch off the machine GP 14. Remove the power cord. Remove the rear cover, PL 28.10 Item 1. Remove the SBC cover, PL 3.22 Item 9. Reconnect the power cord. **CR23 (micro supervisor heartbeat) on the SBC is flashing, Figure 2.**

ΥI

Perform the 301J Power On and LVPS Control Signal RAP.

Press the power button on the UI. CR13 (+5V), CR51 (+3.3V) and CR16 (+24V interlocked) on the IOT PWB are illuminated, Figure 1.

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CR13 and CR16 on the IOT PWB are illuminated, Figure 1.

Ν

CR13 on the IOT PWB is illuminated, Figure 1.

This indicates a short circuit in the +5V distribution. Perform the checks that follow until the short circuit is found:

- Go to Flag 10. Disconnect P/J751. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the tray 1 and tray 2 paper sensors. Refer to WD 5. If after 10 seconds the LEDs remain off, reconnect P/J751 and continue at the next check.
- Go to Flag 12. Disconnect P/J755. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the tray 3 paper sensors or the tray 4 level encoder sensor. Refer to WD 6. If after 10 seconds the LEDs remain off, reconnect P/J755 and continue at the next check.
- (W/O TAG 009). Go to Flag 13. Disconnect P/J775. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the tray 4 paper sensors or the tray 4 control PWB. Refer to WD 11 and WD 18. If after 10 seconds the LEDs remain off, reconnect P/J775 and continue at the next check.

(W/TAG 009). Go to Flag 13. Disconnect P/J786. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the tray 4 paper sensors. Refer to WD 31. If after 10 seconds the LEDs remain off, reconnect P/J786 and continue at the next check.

- Go to Flag 15. Disconnect P/J766. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the fuser CRUM and print cartridge CRUM. Refer to WD 9. If after 10 seconds the LEDs remain off, reconnect P/J766 and continue at the next check.
- Go to Flag 17. Disconnect P/J759. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the duplex sensor. Refer to WD 7. If after 10 seconds the LEDs remain off, reconnect P/J759 and continue at the next check.
- Go to Flag 18. Disconnect P/J750. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the TAR 1 sensor, TAR 2 sensor and bypass tray sensors. Refer to WD 5. If after 10 seconds the LEDs remain off, reconnect P/J750 and continue at the next check.
- Go to Flag 19. Disconnect P/J761. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the post fuser sensor and the offset sensor. Refer to WD 7. If after 10 seconds the LEDs remain off, reconnect P/J7 and continue at the next check.
- Go to Flag 20. Disconnect P/J773. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the horizontal transport sensors and the jam clearance LED. Refer to WD 11. If after 10 seconds the LEDs remain off, reconnect P/J773 and continue at the next check.
- Go to Flag 23. Disconnect P/J763. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the registration sensor and the humidity sensor. Refer to WD 8. If after 10 seconds the LEDs remain off, reconnect P/J763 and continue at the next check.
- Go to Flag 3. Disconnect P/J655. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the SBC PWB. Refer to WD 2. If after 10 seconds the LEDs remain off, reconnect P/J655 and continue at the next check.
- Go to Flag 25. Disconnect P/J851. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the LED print head. Refer to WD 2. If after 10 seconds the LEDs remain off, reconnect P/J851 and continue at the next check.
- Go to Flag 27, Disconnect P/J867. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the SBC PWB/UI USB port harness. Refer to WD 4. If after 10 seconds the LEDs remain off, reconnect P/J867 and continue at the next check.
- 13. Go to Flag 32 and Flag 36. Disconnect P/J416. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the scanner LED drive PWB through the scanner CCD PWB. Refer to WD 16. If after 10 seconds the LEDs remain off, reconnect P/J416 and continue at the next check.

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- 14. Go to Flag 35 and Flag 38. Disconnect P/J458. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the side 2 LED drive PWB through the side 2 CCD PWB. Refer to WD 13. If after 10 seconds the LEDs remain off, reconnect P/J458 and continue at the next check.
- Go to Flag 39. Disconnect P/J462 and P/J463. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the length 2 sensor and last sheet out sensor. Refer to WD 13. If after 10 seconds the LEDs remain off, reconnect P/J462 and P/J463. Continue at the next check.
- 16. Go to Flag 33 and Flag 34. Disconnect P/J418 and P/J417. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the SPDH PWB. Refer to WD 16. If the wiring is good, install a new SPDH PWB, PL 5.10 Item 5. If after 10 seconds the LEDs remain off, reconnect P/J418 and P/J417. Continue at the next check.
- 17. Go to Flag 28. Disconnect P/J861. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the scanner PWB. Refer to WD 3. If the wiring is good, install a new scanner PWB, PL 60.20 Item 4. If after 10 seconds the LEDs remain off, reconnect P/J861. Continue at the next check.
- Go to Flag 30. Disconnect P/J880. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the Fax module. Refer to WD 4. If after 10 seconds the LEDs remain off, reconnect P/J880 and continue at the next check.
- Go to Flag 7. Check the harness for a short circuit between P/J654 and P/J776. If the harness is good, disconnect all PJs from the IOT PWB except for P/J764 and P/J776. If after 10 seconds the LEDs remain off, install a new IOT PWB, PL 1.10 Item 2.

This indicates a short circuit in the +24V distribution. Perform the checks that follow until the short circuit is found:

- (W/O TAG 009). Go to Flag 1 and Flag 8. Disconnect P/J656. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the tray 4 feed motor and tray 4 feed clutch through the tray 4 control PWB. Refer to WD 1 and WD 18. If after 10 seconds the LEDs remain off, reconnect P/J656 and continue at the next check.
 - (W/ TAG 009). Go to Flag 41. Disconnect P/J785. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the tray 4 elevator motor, tray 4 feed motor and tray 4 feed clutch. Refer to WD 31. If after 10 seconds the LEDs remain off, reconnect P/J785 and continue at the next check.
- Go to Flag 2. Disconnect P/J656. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the fuser exit motor and print cartridge motor. Refer to WD 1. If after 10 seconds the LEDs remain off, reconnect P/ J656 and continue at the next check.
- Go to Flag 4. Disconnect P/J656. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the front door interlock switch. Refer to WD 1. If after 10 seconds the LEDs remain off, reconnect P/J656 and continue at the next check.

- Go to Flag 5. Disconnect P/J656. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the left door interlock switch. Refer to WD 1. If after 10 seconds the LEDs remain off, reconnect P/J656 and continue at the next check.
- Go to Flag 9. Disconnect P/J752. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the tray 1 and tray 2 elevate/feed motors. Refer to WD 6. If after 10 seconds the LEDs remain off, reconnect P/J752 and continue at the next check.
- Go to Flag 14. Disconnect P/J756. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the tray 3 motors and clutch. Refer to WD 7. If after 10 seconds the LEDs remain off, reconnect P/J756 and continue at the next check.
- Go to Flag 16. Disconnect P/J767. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the toner cartridge motor. Refer to WD 9.
 If after 10 seconds the LEDs remain off, reconnect P/J767 and continue at the next check.
- Go to Flag 17. Disconnect P/J759. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the left door fans. Refer to WD 7. If after 10 seconds the LEDs remain off, reconnect P/J759 and continue at the next check.
- Go to Flag 21. Disconnect P/J754. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the TAR/bypass tray motor. Refer to WD 6. If after 10 seconds the LEDs remain off, reconnect P/J754 and continue at the next check.
- Go to Flag 22. Disconnect P/J762. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the invert gate solenoid. Refer to WD 8. If after 10 seconds the LEDs remain off, reconnect P/J762 and continue at the next check.
- Go to Flag 24. Disconnect P/J769. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the HVPS. Refer to WD 12. If after 10 seconds the LEDs remain off, reconnect P/J769 and continue at the next check.
- Go to Flag 32 and Flag 36. Disconnect P/J416. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the scanner LED drive PWB through the scanner CCD PWB. Refer to WD 16. If after 10 seconds the LEDs remain off, reconnect P/J416 and continue at the next check.
- 13. Go to Flag 35 and Flag 38. Disconnect P/J458. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the side 2 LED drive PWB through the side 2 CCD PWB. Refer to WD 13. If after 10 seconds the LEDs remain off, reconnect P/J458 and continue at the next check.
- 14. Go to Flag 40. Disconnect P/J461, P/J470 and P/J471. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the top cover interlock switch, LED fan, feed clutch, TAR clutch and motor fan. Refer to WD 13 and WD 15. If after 10 seconds the LEDs remain off, reconnect P/J461, P/J470 and P/J471 and continue at the next check.
- 15. Go to Flag 33. Disconnect P/J418. If CR13 and CR51 are now illuminated, repair the short circuit in the wiring to the SPDH PWB. Refer to WD 16. If the wiring is good, install a new SPDH PWB, PL 5.10 Item 5. If after 10 seconds the LEDs remain off, reconnect P/J418. Continue at the next check.

A B

- 16. Go to Flag 28. Disconnect P/J861. If CR13 and CR16 are now illuminated, repair the short circuit in the wiring to the scanner PWB. Refer to WD 3. If the wiring is good, install a new scanner PWB, PL 60.20 Item 4. If after 10 seconds the LEDs remain off, reconnect P/J861. Continue at the next check.
- 17. Go to Flag 7. Check the harness for a short circuit between P/J654 and P/J776. If the harness is good, disconnect all PJs from the IOT PWB except for P/J764 and P/J776. If after 10 seconds the LEDs remain off, install a new IOT PWB. PL 1.10 Item 2.

This indicates a short circuit in the +3.3V distribution from the IOT PWB. Go to Flag 11. Disconnect P/J751. **CR51 is now illuminated.**

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Switch off, then switch on the machine, GP 14. CR51 is now illuminated.

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Install a new IOT PWB, PL 1.10 Item 2.

Check the tray 1 and tray 2 size sensors and the harness to the sensors for a short circuit. Repair the wiring or install new components as necessary.

Check the tray 1 and tray 2 size sensors and the harness to the sensors for a short circuit. Repair the wiring or install new components as necessary.

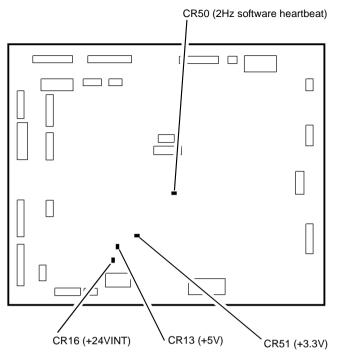
CR7 on the SBC PWB, Figure 2 is illuminated.

Y N

This indicates a short circuit in the +3.3V distribution from the SBC PWB. Perform the checks that follow until the short circuit is found:

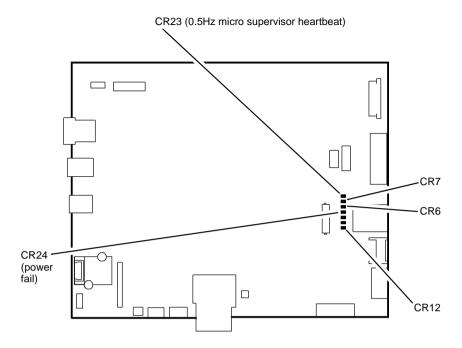
- Go to Flag 26. Disconnect P/J864. If CR7 is now illuminated, repair the short circuit
 in the wiring to the UI control PWB. Refer to WD 4. If after 10 seconds the LED
 remains off, reconnect P/J864 and continue at the next check.
- Go to Flag 30, disconnect P/J880. If CR7 is now illuminated, repair the short circuit
 in the wiring to the Fax module. Refer to WD 4. If after 10 seconds the LED remains
 off, reconnect P/J880 and continue at the next check.
- Go to Flag 32. Disconnect P/J416. If CR13 and CR7 is now illuminated, repair the short circuit in the wiring to the scanner CCD PWB. Refer to WD 16. If after 10 seconds the LED remains off, reconnect P/J416 and continue at the next check.
- Go to Flag 37, disconnect P/J462, P/J463, P/J464, P/J465 and P/J467. If CR7 is now illuminated, repair the short circuit in the wiring to the SPDH paper sensors. Refer to WD 13 and WD 14. If after 10 seconds the LED remains off, reconnect P/ J462, P/J463, P/J464, P/J465 and P/J467. Continue at the next check.
- Go to Flag 35. Disconnect P/J458. If CR7 is now illuminated, repair the short circuit in the wiring to the side 2 CCD PWB. Refer to WD 13. If after 10 seconds the LED remains off, reconnect P/J458 and continue at the next check.
- Go to Flag 33 and Flag 34. Disconnect P/J418 and P/J417. If CR7 now illuminated, repair the short circuit in the wiring to the SPDH PWB. Refer to WD 16. If the wiring is good, install a new SPDH PWB, PL 5.10 Item 5. If after 10 seconds the LEDs remain off, reconnect P/J418 and P/J417. Install a new SBC PWB, PL 3.22 Item 3.

No short circuits have been found. Perform SCP 5 Final Actions.



W-1-1082-A

Figure 1 IOT PWB LEDs



W-1-1083-A

Figure 2 SBC PWB LEDs

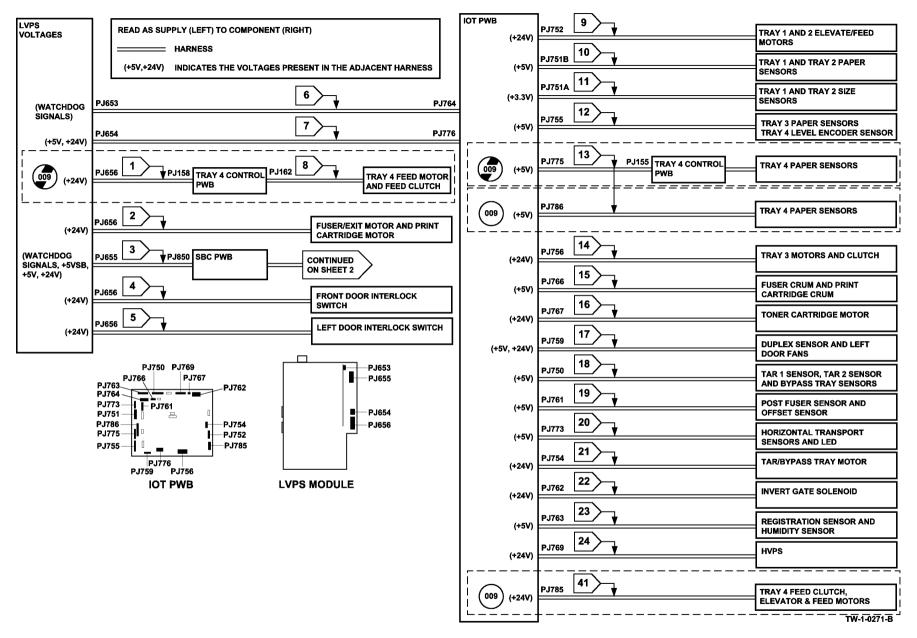


Figure 3 Low voltage distribution 1 of 2

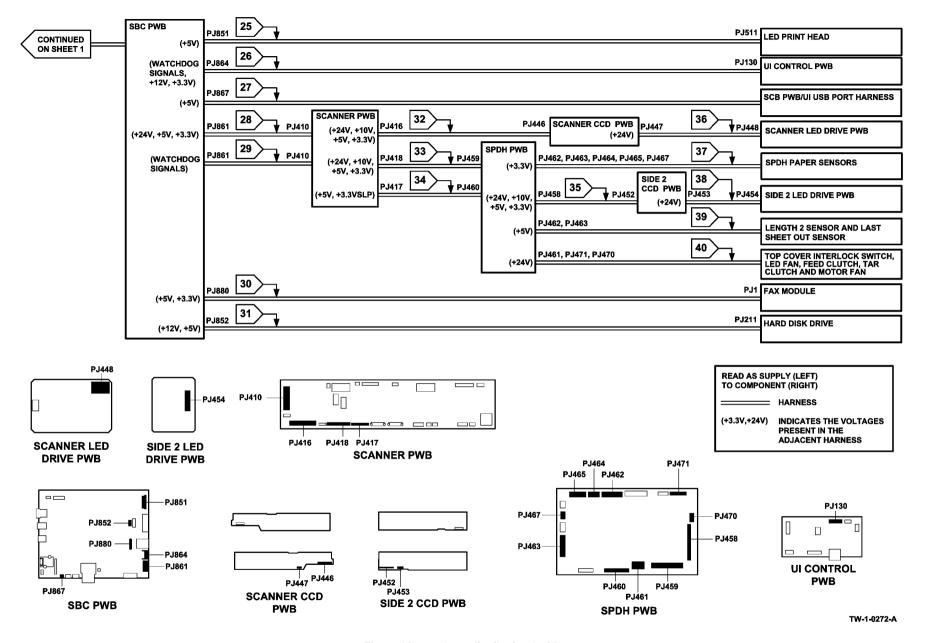


Figure 4 Low voltage distribution 2 of 2

301J Power On and LVPS Control Signal RAP

Use this RAP to check the power on and standby signals to the LVPS.

Ensure the 301C AC Power RAP is performed before starting this RAP.

Procedural Notes

- Short circuit or overload of +5VSB (standby) will result in all voltage outputs from the LVPS shutting off. When the short circuit or overload is removed, all the outputs will recover to normal operating voltages after 10 seconds.
- Short circuit or overload of +5V will result in +5V output from the LVPS shutting off. When
 the short circuit or overload is removed, the output will recover to normal operating voltage after 10 seconds.
- Short circuit or overload of +24V will result in +24V output from the LVPS shutting off.
 When the short circuit or overload is removed the output will recover to normal operating voltage after 10 seconds.
- If +5VSB or +5V are over voltage, all LVPS outputs will shut off. To restore to normal voltages, switch off the machine, GP 14. Wait 20 seconds. Switch on the machine.
- If the +24V is over voltage, only the +24V the output will shut off. To restore to normal voltage, switch off the machine, GP 14. Wait 20 seconds. Switch on the machine.
- +3.3V is generated on the IOT PWB to supply internal components and sensors.
- +3.3V is generated on the SBC PWB to supply internal components and sensors, also the SPDH PWB and sensors.

If a short circuit is suspected, perform the 301H Short Circuit and Overload RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off the machine GP 14. Remove the power cord. Remove the rear cover, PL 28.10 Item 1. Remove the SBC cover, PL 3.22 Item 9. Reconnect the power cord. **CR23 (micro supervisor heartbeat) on the SBC is flashing, Figure 2.**

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Go to Flag 3. +5V is available at P/J850 on the SBC PWB between pins 3 and 10.

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Disconnect P/J850. +5V is available at the disconnected end of the harness, P/J850 between pins 3 and 10.

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+5V is available at P/J655 on the LVPS between pins 3 and 10.

1

Perform the 301L LVPS RAP.

Check the wiring and connectors between P/J655 and P/J850. Refer to REP 1.2 Wiring Harness Repairs.

Repair the connector P/J850, if necessary install a new SBC PWB, PL 3.22 Item 3.

C D

Install a new SBC PWB, PL 3.22 Item 3.

Figure 1, CR13 and CR 16 on the IOT PWB are illuminated

N

Go to Flag 2. +3.3V is available at $\,$ P/J81 on the UI control PWB between pins 2 and 3.

Y N

Disconnect P/J81. +3.3V is available at the disconnected end of the harness, P/J81 between pins 2 and 3.

Y N

+3.3V is available at P/J864 on the SBC PWB between pins 6 and 7.

+3.

Install a new SBC PWB, PL 3.22 Item 3.

Check the wiring and connectors between P/J81 and P/J864. Refer to REP 1.2 Wiring Harness Repairs.

Perform the steps that follow:

- Check the operation of the Power button on the UI. Ensure that the button is not sticking in the UI surround. If necessary, install a new UI keyboard PWB, PL 2.10 Item 9.
- Repair the connector P/J81. If necessary install a new UI control PWB, PL 2.10 Item 6.

Press the power button on the UI. The voltage at P/J81 pin 2 changes from+3.3V to 0V.

Y N

Go to Flag 1. Check the ribbon cable and connectors P/J907 and PJ910. Refer to REP 1.2 Wiring Harness Repairs.

If necessary install new components:

- Control to keyboard PWB ribbon cable, PL 2.10 Item 10.
- UI keyboard PWB, PL 2.10 Item 9.
- UI control PWB. PL 2.10 Item 6.

Go to Flag 3. The voltage at P/J655 pin 4 is 0V.

ΥI

The voltage at P/J850 pin 4 is 0V.

Y N

Install a new SBC PWB, PL 3.22 Item 3.

Check the harness and connectors between P/J850 and P/J655. Refer to REP 1.2 Wiring Harness Repairs.

Go to Flag 4. The voltage at P/J764 pin 3B is 0V.

N

Υ

The voltage at P/J653 pin 9 is 0V.

Y N

Perform the 301L LVPS RAP.

Check the harness and connectors between P/J764 and P/J653. Refer to REP 1.2 Wiring Harness Repairs.

Go to Flag 5, +24V is available at P/J776 between pins 8 and 1, also +5V is available between pins 8 and 4.

Y N

+24V is available at P/J654 between pins 4 and 5, also +5V is available between pins 4 and 8.

Y N

Perform the 301L LVPS RAP.

Check the harness and connectors between P/J654 and P/J776. Refer to REP 1.2 Wiring Harness Repairs.

Install a new IOT PWB, PL 1.10 Item 2.

The power on and LVPS control signals are working correctly. Perform SCP 5 Final Actions.

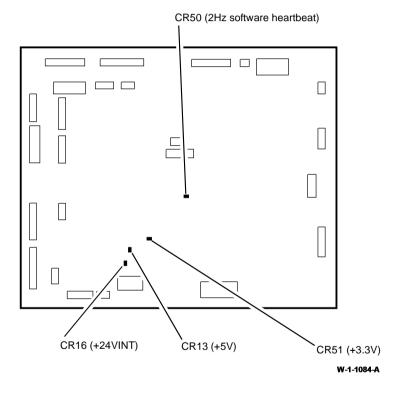


Figure 1 IOT PWB LEDs

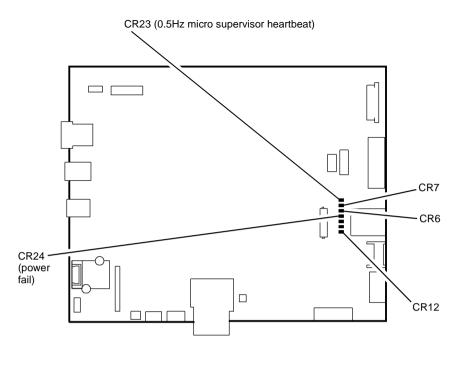
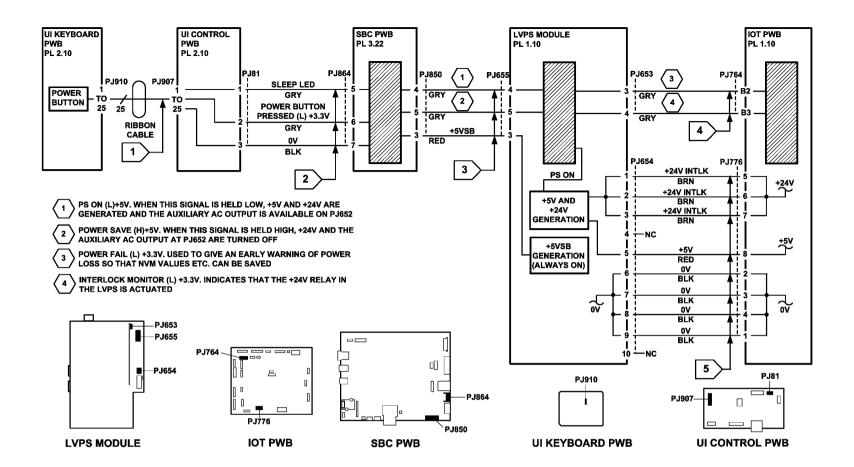


Figure 2 SBC PWB LEDs

W-1-1085-A



TW-1-0274-A

Figure 3 Circuit diagram

301K Sleep Mode RAP

Use this RAP to diagnose problems entering or exiting sleep mode.

Sleep Mode Operation

The machine is designed to be energy efficient by reducing the power consumption after periods of inactivity. The machine has 3 power modes:

- Standby or run mode full power consumption. In this mode, the power button, Figure 1, is not illuminated.
- Low power mode the fuser temperature is reduced to save power, yet allows a quick return to run temperature. In this mode, the power button is blinking.
- Sleep mode power consumption for the whole machine is reduced to below 10 watts by
 powering down all but the essential parts, see the note below. In this mode, the power
 button is illuminated.

NOTE: When the machine is connected to mains power, +5VSB is supplied from an always on power supply located within the LVPS.

Plug In Off to Run Mode

The power button on the UI is wired through the UI control PWB to the micro supervisor on the SBC PWB, Flag 1 and Flag 2. When the power button is pressed, the micro supervisor forces the PS on signal low, signalling the LVPS to power on the +5V and +24V outputs and also enable AC power to the finisher. The micro supervisor keeps the PS on signal low during run mode.

Run Mode to Sleep Mode

After a period of machine inactivity that equates to the sum of the low power mode duration plus the sleep mode duration, as set in the customer tools options, the micro supervisor changes the PS on signal to high, causing the +5V and +24V outputs of the LVPS to switch off. The +5VSB power supply stays on.

Sleep Mode to Run Mode

Exit from sleep mode requires the occurrence of one of the wake events that follows:

- An operator presses the power button. The power button on the UI is wired through the UI control PWB to the micro supervisor on the SBC PWB. When the power button is pressed, the micro supervisor forces the PS on signal low and sends it to the LVPS to power on the +5V and +24V outputs and also enables AC power to the finisher. The micro supervisor keeps the PS on signal low during run mode.
- An incoming Fax job. The Fax PWB will generate a power management event/wake up (PME/wake up) signal via the Fax connector PWB through the PCI bus to the SBC PWB micro supervisor. The micro supervisor forces the PS on signal low and sends it to the LVPS to power on the +5V and +24V outputs and also enables AC power to the finisher. The micro supervisor keeps the PS on signal low during run mode.
- An incoming print job to the SBC PWB will generate a power management event/wake up (PME/wake up) signal that is passed to the SBC PWB micro supervisor. The micro supervisor forces the PS on signal low and sends it to the LVPS to power on the +5V and +24V outputs and also enables AC power to the finisher. The micro supervisor keeps the PS on signal low during run mode.

Reading or Setting the Power Save Duration Times

Access the power save feature by performing the steps that follow:

- 1. Access the Customer Administration Tools screen, GP 24.
- 2. Select Device Settings / General / Energy Saver.
- 3. Select from the items that follow:
 - Intelligent Ready wakes up and sleeps automatically based on previous usage.
 - Job Activated wakes up when activity is detected.
 - Scheduled wakes up and sleeps at set times on a daily basis.
- 4. If the scheduled option is chosen, set the necessary times.

NOTE: The default time for standby mode to low power mode is 15 minutes, the minimum value is 1, the maximum value is 120.

NOTE: The default time for low power mode to sleep mode is 45 minutes, the minimum value is 10, the maximum value is 120.

NOTE: To change either of the timing values, touch the appropriate input area, enter the new value using the keypad.

5. Select the **Save** button to confirm the change.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to Sleep Mode to Run Mode. The machine remains in sleep mode after a wake event.

Y N

Refer to Run Mode to Sleep Mode. The machine remains in standby mode or low power mode after both power save duration times have elapsed.

.

The machine switches off when it should enter sleep mode.

N

The system is operating correctly, perform SCP 5 Final Actions.

Perform the steps that follow:

- Refer to Reading or Setting the Power Save Duration Times. Set the standby mode to low power mode to 1 minute and the low power mode to sleep mode values to 10 minutes.
- To prevent a power management event, disconnect the following as necessary:
 - Fax telephone lines.
 - Network cable or USB wireless network adapter, PL 3.22 Item 20.

Go to Flag 3. Check the voltage at P/J850 pin 4 on the SBC PWB. After 11 minutes the voltage changes from 0V to +5V.

Y N

Perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the Fax and network. Perform SCP 5 Final Actions.

A B C

A В

Perform the 301L LVPS RAP. Return the power save settings to the previous values and reconnect the Fax and network lines. Perform SCP 5 Final Actions.

Perform the steps that follow:

- If the fax option is installed, ensure it has been enabled and set up. If the customer does not use this option, it may be disabled via the tools menu, but the fax option must be set up to allow the operation of the Sleep Mode.
- Refer to Reading or Setting the Power Save Duration Times. Set the standby mode to low power mode to 1 minute and the low power mode to sleep mode values to 10 minutes.
- To prevent a power management event, disconnect the following as necessary:
 - Fax telephone lines.
 - Network cable or USB wireless network adapter, PL 3.22 Item 20.
- Leave the machine untouched and observe the user interface.

After 1 minute the power button flashes, then after a further 10 minutes the power button illuminates.

N

Perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the Fax and network lines. Perform SCP 5 Final Actions.

The system is operating correctly. Return the power save settings to the previous values and reconnect the Fax and network lines. Perform SCP 5 Final Actions.

Remove the rear cover, PL 28.10 Item 1. Remove the SBC cover, PL 3.22 Item 9. Observe the LEDs on the SBC PWB. Figure 2. **CR23 is lit.**

′

Disconnect the power cord from the machine. Wait 2 minutes, then re-connect the power cord. CR23 is lit.

N

Perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the Fax and network lines. Perform SCP 5 Final Actions.

The fault may be intermittent. If the fault re-occurs, perform an AltBoot, GP 4. If necessary, perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the Fax and network. Perform SCP 5 Final Actions.

The wake event is from the network.

/ N

The wake event is from the Fax PWB.

N

Go to the 301J Power On and LVPS Control Signals RAP, check the operation of the power button.

Perform the steps that follow:

- 1. Refer to 320A Fax Entry RAP and complete all of the initial actions.
- Remove and re-seat the Fax module and the harnesses to the Fax connection PWB, REP 3.2.

- Refer to Reading or Setting the Power Save Duration Times. Set the standby mode to low power mode to 1 minute and the low power mode to sleep mode values to 10 minutes.
- 4. Go to Flag 3. Measure the voltage at P/J850 pin 4 on the SBC PWB.
- 5. Leave the machine untouched, allow the machine to enter sleep mode.
- 6. Arrange for a fax job to be sent from another machine to this machine.

The voltage measured changes from +5V to 0V when the fax arrives at the machine.

/ N

Go to Flag 3, disconnect P/J850. Arrange for a Fax job to be sent from another machine to this machine. The voltage measured at J850 pin 4 on the SBC PWB changes from +5V to 0V when the print job arrives at the machine.

' N

Go to Flag 4. Check that the ribbon cable between $\,$ P/J880 on the SBC PWB and $\,$ P/J1 on the Fax connector PWB is fully connected and undamaged. **The cable is good.**

Y N

Remove and reconnect the cable. If necessary install a new SBC PWB to Fax connector PWB ribbon cable, PL 3.22 Item 14.

Perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the Fax and network lines. Perform SCP 5 Final Actions.

Check the wiring and connectors between P/J850 and P/J655. Repair the wiring as necessary, REP 1.2. If the wiring and connectors are good, perform the 301L LVPS RAP. Return the power save settings to the previous values and reconnect the fax and network lines. Perform SCP 5 Final Actions.

Check the wiring and connectors between P/J850 and P/J655. Repair the wiring as necessary, REP 1.2. If the wiring and connectors are good, perform the 301L LVPS RAP. Return the power save settings to the previous values and reconnect the fax and network lines. Perform SCP 5 Final Actions.

Go to Flag 5. Check the network connection P/J884 on the SBC PWB. **The harness and connectors are good.**

ΥN

Install a new components as necessary:

- Ethernet harness.
- SBC PWB. PL 3.22 Item 3.

Perform the steps that follow:

- Refer to Reading or Setting the Power Save Duration Times. Set the standby mode to low power mode to 1 minute and the low power mode to sleep mode values to 10 minutes.
- Disconnect the telephone network harness from the fax module to prevent a power management event.
- Go to Flag 3. Measure the voltage at P/J850 pin 4 on the SBC PWB.
- 4. Leave the machine untouched, allow the machine to enter sleep mode.
- 5. Arrange for a print job to be sent from a PC to this machine.

The voltage measured changes from +5V to 0V, when the print job arrives at the machine.

Y N

Go to Flag 3. Disconnect P/J850. Arrange for a print job to be sent from a PC to this machine. The voltage measured at J850 pin 4 on the SBC PWB changes from +5V to 0V, when the print job arrives at the machine.

/ N

Perform the 303D SBC PWB Diagnostics RAP. Return the power save settings to the previous values and reconnect the fax and network lines. Perform SCP 5 Final Actions.

Check the wiring and connectors between P/J850 and P/J655. Repair the wiring as necessary, REP 1.2. If the wiring and connectors are good, perform the 301L LVPS RAP. Return the power save settings to the previous values and reconnect the fax and network lines. Perform SCP 5 Final Actions.

Go to Flag 3. Measure the voltage at P/J655 pin 4 on the LVPS. Arrange for a print job to be sent from a PC to this machine. The voltage measured changes from +5V to 0V when the print job arrives at the machine.

Y N

Check the wiring and connectors between P/J655 and P/J850. Repair the wiring as necessary, REP 1.2.

Perform the 301L LVPS RAP. Return the power save settings to the previous values and reconnect the fax and network lines. Perform SCP 5 Final Actions.

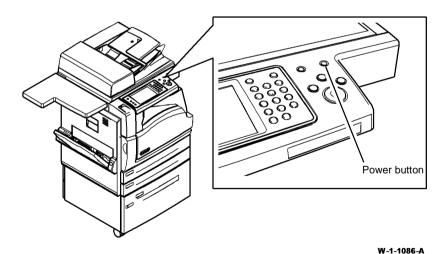
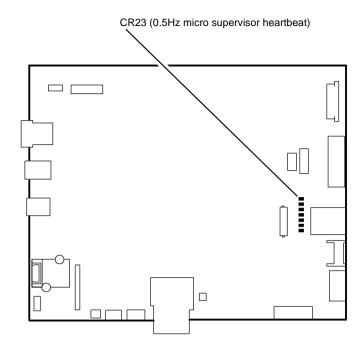
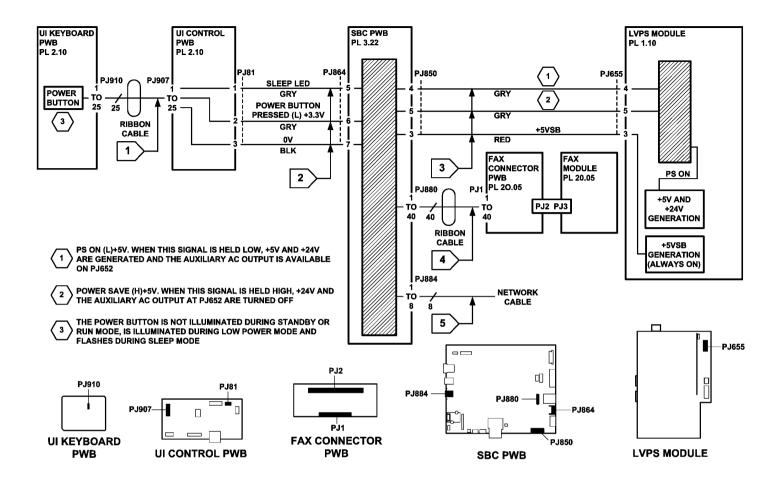


Figure 1 Power button location



W-1-1087-A

Figure 2 Component location



TW-1-0278-A

Figure 3 Circuit diagram

301L LVPS RAP

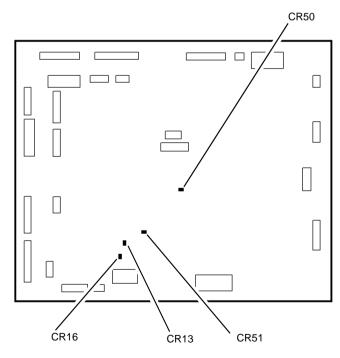
Use this RAP to diagnose problems with the LVPS that may give the symptoms that follow:

- The machine does not respond after the power button on the UI has been pressed. The LEDs that follow may be observed on the SBC PWB, Figure 2:
 - CR23 is flashing green at 0.5Hz to indicate the SBC heartbeat.
 - CR24 is illuminated red to indicate a power failure to the SBC microprocessor.

This indicates a loss of +5V and +24V from the LVPS.

- The machine may respond for an instant to the power button on the UI having been pressed, with a beep, a click or a momentary LED flash, but no power or lights on the UI, no fans on, no motors on and no solenoids on. The LEDs that follow may be observed on the IOT PWB, Figure 1:
 - CR13 is illuminated yellow to indicate the presence of +5V.
 - CR 16 is not illuminated, indicating that there is no +24V on the IOT PWB.
 - CR50 is flashing yellow at 2Hz to indicate the IOT heartbeat.
 - CR51 is illuminated yellow to indicate the presence of +3.3V (generated on the IOT PWB).

This indicates a loss of +24V from the LVPS.



W-1-1314-A

Figure 1 IOT PWB LED locations

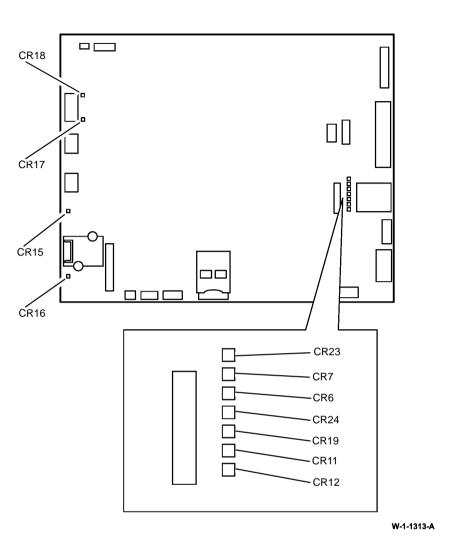


Figure 2 SBC PWB LED locations

Initial Actions

- If the UI touch screen is black or blank, but the LVPS fan is running, or there is an LED lit
 on the UI, perform the 302A Touch Screen Failure RAP.
- The LVPS can shut down in response to a power surge, requiring a reset. Disconnect the machine from the AC power supply and leave it disconnected for 2 minutes, then re-connect and switch on the machine, GP 14, to restart the LVPS.

LVPS Self Test Feature

There are two indicator LEDs on the LVPS, Figure 3. When the LVPS is operating normally, the green LED is on and the red LED is off. If there is a fault in the LVPS or the voltage distribution from the LVPS, the green LED is off and the red LED is flashing.

The red LED will flash in sequences that signify a fault code, for example, fault code 2 is shown as two short flashes followed by a longer off time, then the sequence is repeated.

LED fault indication is only visible when the PS on signal, Flag 1 is enabled from the SBC PWB. When the PS on signal is not enabled, the LEDs will be off and the LVPS will be in sleep mode. The LVPS will only restart when the PS on signal is enabled once more.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

A LVPS module test tool, PL 26.11 Item 7 is available.

Υ

Remove the rear cover, PL 28.10 Item 1. The red LED on the LVPS is flashing a code.

N

The green LED on the LVPS is illuminated.

' N

Switch off the machine, GP 14 and disconnect the power cord at the LVPS. Disconnect the connectors that follow:

- P/J650 fuser power.
- P/J655 SBC PWB power.
- P/J654 IOT PWB power.
- P/J656 tray 4 PWB power, main drive module power and door interlocks.

At J656 on the LVPS, create a link between pins 3 and 12 (to simulate the door interlocks being made). Switch on the machine, GP 14. Connect J655 pin 4 on the LVPS to 0V or machine frame, (to simulate the PS on signal). The LVPS turns on (the cooling fan runs and +24V is available at P/J655 pin 1).

Y N

Check the AC voltage supply from the customer's supply to the LVPS connector. If necessary install new components:

- Main power cord. PL 1.15 Item 1.
- LVPS module, PL 1.10 Item 1.

Perform the actions that follow:

- Go to Flag 2. Check the wiring and connectors between P/J656 and PJ951. Also check the mechanical operation of the front door interlock switch using a service meter.
- Go to Flag 3. Check the wiring and connectors between P/J656 and PJ952. Also check the mechanical operation of the left door interlock switch using a service meter.

Go to Flag 1. Check the wiring and connectors between P/J655 and P/

Repair any damaged wiring or connectors, REP 1.2.

If necessary, install new components:

- Front door interlock switch, PL 1.12 Item 1.
- Left door interlock switch, PL 1.12 Item 1.

The LVPS appears to be working correctly, perform the OF3 Dead Machine RAP.

Observe and count the number of flashes of the red LED between the longer pauses, then refer to Table 1 and perform the remedial actions for the fault code.

The LVPS module test tool contains two LVPS jumper connectors:

- PJ655 connector (to simulate the PS ON signal from the IOT PWB).
- PJ656 connector (to simulate the 24V Interlocks made).
- Remove the LVPS module, REP 1.1.
- 2. Connect the PJ 655 connector into J655 on the LVPS module.
- Connect the PJ656 connector into J656 on the LVPS module.
- Connect the main power cord to the LVPS module and the wall outlet. The LVPS will power on.
- Observe the red and green LEDS and the cooling fan.

The green LED is on, the red LED is off and the LVPS cooling fan is running.

N

В

The LVPS is defective, if:

- The green LED is off, the red LED is flashing and the LVPS cooling fan is running.
- The green LED is off, the red LED is off and the LVPS cooling fan is running.
- The green LED is off, the red LED is off and the LVPS cooling fan is inactive.
- The green LED is flickering, the red LED is off and the LVPS cooling fan is inactive Install a new LVPS, PL 1.10 Item 1.

Perform the 301H Short Circuit and Overload RAP and ETI 1344452.

в с

Table 1 LVPS Fault Descriptions

| Fault code (number of flashes) | Fault description | Cause | LVPS outputs affected | Remedial action |
|--------------------------------------|---|--|---|--|
| 1 | either +24V or +24V INTLK outputs | | down. +5V and +5V SB will remain active. | Go to the 301H Short Circuit and Overload RAP, troubleshoot the +24V distribution. If the distribution wiring and components are good, install a new LVPS module, PL 1.10 Item 1. |
| 2 | | A short circuit in the +5V distribution or the system peak current is too high | except +5VSB which will remain active. | Go to the 301H Short Circuit and Overload RAP, troubleshoot the +5V distribution. If the distribution wiring and components are good, install a new LVPS module, PL 1.10 Item 1. |
| 3 | on the +24V or +24V INTLK | A short circuit on the +24V or +24V INTLK distribution or the system peak current is too high | All +24V outputs will be shut down. +5V and +5VSB will remain active. | Go to the 301H Short Circuit and Overload RAP, troubleshoot the +24V and +24V INTLK distribution. If the distribution wiring and components are good, install a new LVPS module, PL 1.10 Item 1. |
| 4 | Over-temperature is detected | The LVPS cooling fan is not running, the LVPS cooling fan is blocked, the vent openings in the rear cover are blocked or the ambient temperature is too high | All outputs will be shut down except +5VSB which will remain active. | Figure 3, check that the LVPS cooling fan runs in standby and run mode, if necessary install a new LVPS module, PL 1.10 Item 1. If the fan does run, check that the ventilation grilles in the rear covers are clear. Refer to GP 21, check that the installation space requirements are met. Refer to GP 23, check that the environmental conditions are met. |
| 5 | Under-voltage is detected on the +5V output | LVPS failure or a short circuit on the +5V distribution | All outputs will be shut down except +5VSB which will remain active. | Go to the 301H Short Circuit and Overload RAP, troubleshoot the +5V distribution. If the distribution wiring and components are good, install a new LVPS module, PL 1.10 Item 1. |
| 6 | Average over-load is detected on the +24V or +24V INTLK outputs | Too much +24V power is being used | All +24V outputs will be shut down. +5V and +5VSB will remain active. | Go to the 301H Short Circuit and Overload RAP, check all the +24V motors and their driven components are correctly installed, are not binding and that drive belts are not over tensioned. Install new components as necessary. |
| 7 | Average over-load is detected on the +5V output | Too much +5V power is being used | All outputs will be shut down except +5VSB which will remain active. | Go to the 301H Short Circuit and Overload RAP, troubleshoot the +5V distribution and components. Install new components as necessary. |
| 8 | Over-voltage is detected on the +5V output | LVPS failure or a short circuit between the +5V and +24V distribution | All outputs will be shut down except +5VSB which will remain active. | Go to the 301H Short Circuit and Overload RAP, check for a short circuit between the +5V and +24V distribution either in the wiring harnesses or a component that uses both voltages. Repair the wiring or install new components as necessary. |
| 9 | Over-voltage is detected on either the +24V or +24V INTLK outputs | LVPS failure | All outputs will be shut down except +5VSB which will remain active. | Install a new LVPS module, PL 1.10 Item 1. |
| 10 | +24V INTLK output stays on when the interlock line is open | LVPS failure | +5V and +24V outputs will be shut down. | Install a new LVPS module, PL 1.10 Item 1. |

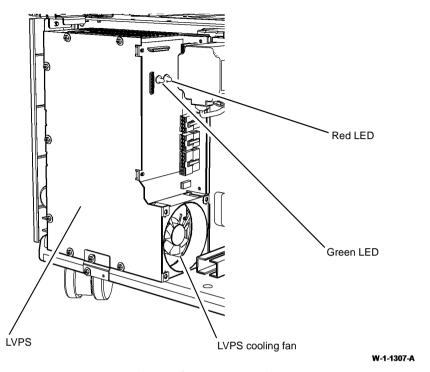


Figure 3 Component location

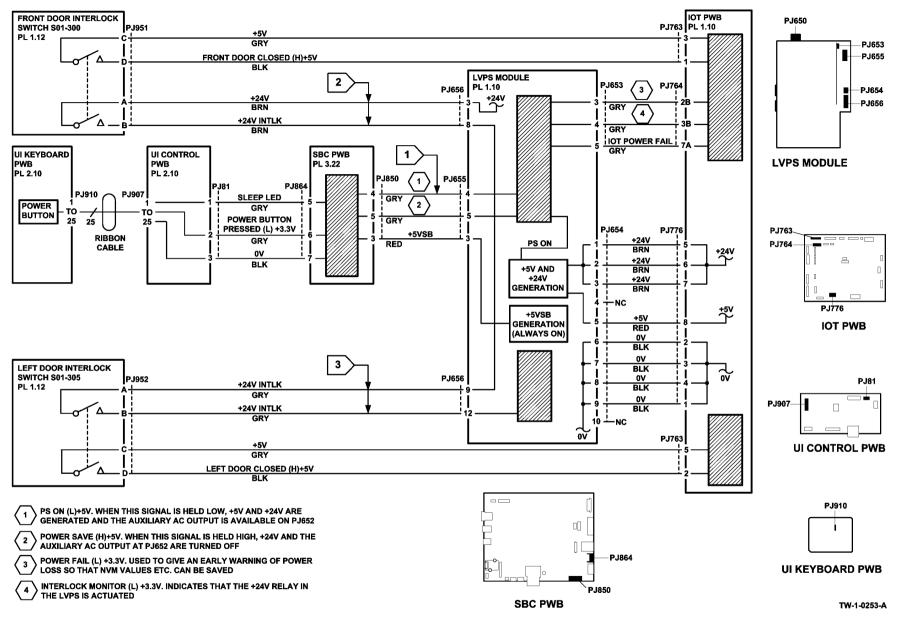


Figure 4 Circuit diagram

302-302-00, 302-306-00, 302-308-00 Flash Failure RAP

302-302-00 Flash rewrite failure.

302-306-00 Flash erase failure.

302-308-00 Flash download failure.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

- 1. Perform an AltBoot, GP 4.
- 2. If the fault persists, install a new hard disk drive, PL 3.22 Item 2.

302-315-00 Service Registry Bad Data RAP

302-315-00 Service registry bad or corrupted data.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

- 1. Perform an AltBoot, GP 4.
- 2. If the fault persists, install a new hard disk drive, PL 3.22 Item 2.

302-316-00, 302-317-00 SRS Error RAP

302-316-00 SRS returned UI invalid fields, invalid data or missing data.

302-317-00 The UI received no response from SRS.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

- 1. Perform an AltBoot, GP 4.
- 2. If the fault persists, install a new hard disk drive, PL 3.22 Item 2.

302-320-00 Data Timeout Error RAP

302-320-00 The UI failed to receive requested data from the CCM within the specified timeout window.

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the wiring between the SBC PWB and the UI Control PWB. Refer to WD 4. Repair the wiring, GP 7, or install new components as necessary:
 - SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.
 - SBC PWB to UI control PWB data cable, PL 2.10 Item 14.
- 2. Perform an AltBoot, GP 4.
- 3. Install new components as necessary:
 - Hard disk drive, PL 3.22 Item 2.
 - UI control PWB, PL 2.10 Item 6.
- 4. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

302-321-00 XEIP Browser Dead RAP

302-321-00 The UI detected that the Xerox Extensible Interface Platform (XEIP) browser failed to respond, or is known to be not working.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Switch off, then switch on the machine, GP 14.
- Ensure that Extensible Services are enabled, as detailed in the System Administrator's Guide. If necessary, reload the software, GP 4.
- 3. Check that the machine is communicating with the network, for example by sending a print job. If necessary, check the network cable and check with the customer that their network and web browser are running correctly.
- Check the wiring between PJ130 on the UI control PWB and PJ864 on the SBC PWB. Refer to WD 4. Repair the wiring or install new components as necessary:
 - SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.
 - UI control PWB, PL 2.10 Item 6.
- If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

302-380-00, 302-381-00 UI Communication Fault RAP

302-380-00 Communication via H-H USB net path connection between SBC and UI panel failed.

302-381-00 Communication via USB connection between SBC and UI panel failed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Switch off, then switch on the machine, GP 14.
- Check the cable between PJ905 on the UI control PWB and PJ865 on the SBC PWB. Refer to WD 4. Install new components as necessary:
 - SBC PWB to UI control PWB data cable. PL 2.10 Item 14.
 - UI control PWB. PL 2.10 Item 6.
- If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Status Indicator RAPs

302-390-00 Configurable Services RAP

302-390-00 During power up, all configurable services failed to achieve a stable state after 5 minutes from power up.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.

302A Touch Screen Failure RAP

Use this RAP to solve UI touch screen problems when the machine has power, but either the display is missing, is too dark, or the UI screen responds incorrectly, or does not refresh.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Go to Tools / Device Settings / Display Brightness. Adjust the UI brightness level.
- Check and re-seat all connectors on the UI control PWB, PL 2.10 Item 6, UI status PWB, PL 2.10 Item 7 and the UI keyboard PWB, PL 2.10 Item 9.

NOTE: Refer to REP 2.1 to access the UI assembly.

 If the problem occurs while entering or exiting sleep mode, perform the 301K Sleep Mode RAP.

Procedure

Go to Flag 1. +12V is available at P/J130 between pin 3 and 4.

' N

Check the wiring between P/J130 on the UI control PWB and P/J864 on the SBC PWB. The wiring is good.

Υ

Repair the wiring, REP 1.2 or install a new SBC PWB to UI control PWB power/comms harness. PL 2.10 Item 3.

Check the +12V power supply.

Refer to:

- 301F +12V Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 2. +3.3V is available at P/J130 between pin 1 and 2.

′ N

Check the wiring between P/J130 on the UI control PWB and P/J864 on the SBC PWB. The wiring is good.

Y N

Repair the wiring, REP 1.2 or install a new SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.

Check the +3.3V power supply.

Refer to:

- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 3. Check the harness and wiring, GP 7. The wiring is good.

Y N

Repair the wiring, REP 1.2 or install a new SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.

Go to Flag 4. Check the harness and wiring, GP 7. The wiring is good.

Y

Repair the wiring, REP 1.2 or install a new SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.

Go to Flag 5. Check the cable. The cable is good.

Υ

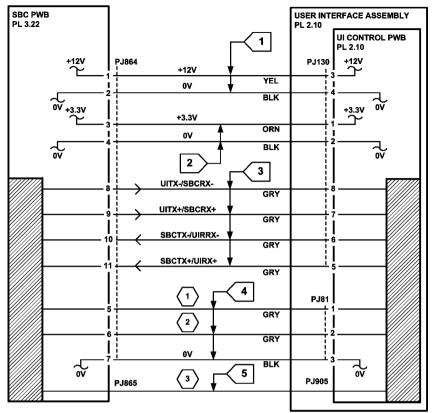
Install a new SBC PWB to UI control PWB data cable, PL 2.10 Item 14.

Install new components as necessary:

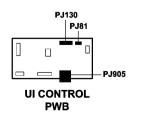
- UI control PWB, PL 2.10 Item 6.
- UI touch screen, PL 2.10 Item 4.

If the fault persists, perform the steps that follow, as necessary:

- A short circuit in the +24V distribution can cause UI faults. Perform the 301G +24V Distribution RAP.
- A defective HVPS can short out the +24v interlocked supply or the +24v supply. This
 causes the UI to go dark or blank, perform the 391A HVPS RAP.
- 303D SBC PWB Diagnostics RAP.



- 1 +3V IN SLEEP. 0V DURING NORMAL OPERATION.
- 2 0V IN POWER SAVE. +3V DURING NORMAL OPERATION.
- 3 10 WIRE TWISTED PAIR CABLE



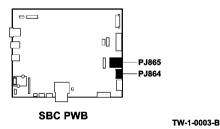


Figure 1 Circuit Diagram

302B UI Control Panel Button or Touch Screen RAP

Use this RAP if the user interface is illuminated, but there is no information.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the UI software, GP 4.
- Check the harness connections between the user interface, PL 2.10 and the SBC PWB, PL 3.22 Item 3. Refer to WD 4:
 - PJ864 on the SBC PWB to PJ130 on the UI control PWB.
 - PJ864 on the SBC PWB to PJ81 on the UI control PWB.
 - PJ865 on the SBC PWB to PJ905 on the UI control PWB.
- 4. Install new components as necessary:
 - UI control PWB, PL 2.10 Item 6.
 - UI touch screen, PL 2.10 Item 4.
- 5. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-306-00 Software Downgrade Not Permitted RAP

303-306-00 Software downgrade failed due to downgrade not permitted.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

Perform the 395-303-00 Software DLM Downgrade Error RAP.

303-307-00 Software Upgrade Synchronization Failure RAP

303-307-00 Software upgrade synchronization failure.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.

303-315-00 DC Platform Internal Interface Fault RAP

303-315-00 The DC platform software interface has timed out.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

 Check the fault history file for other 303-XXX fault codes. If the 303-XXX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- 1. Switch off, then switch on the machine, GP 14.
- If the fault persists perform the PWS AltBoot Procedure, refer to GP 4 Software Loading Procedures:
 - At Step12 of the PWS AltBoot Procedure select option 11 from the actions menu, Forced Install ESS software, then follow the remaining steps to complete the procedure.

303-316-00 CCM Cannot Communicate with IOT RAP

303-316-00 CCM failed to communicate with the IOT PWB.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the fault history file for other 303-XXX fault codes. If the 303-XXX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.
- Switch off, then switch on the machine, GP 14.

Procedure

NOTE: The machine may continue to boot with this fault, but printing may be disabled. The status codes. 303-505 and 303-561 are raised with this fault code.

- Check the wiring between PJ866 on the SBC PWB and PJ768 on the IOT PWB. Refer to WD 10. Repair as necessary, REP 1.2.
- 2. Perform the procedures that follow, as necessary:
 - 303D SBC PWB Diagnostics RAP.
 - OF7 IOT PWB Diagnostics RAP.

303-324-00, 303-327-00, 303-390-00 Software Upgrade Failure RAP

303-324-00 Software upgrade file transfer failed.

303-327-00 Software upgrade failed.

303-390-00 Software upgrade automation failed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. If the fault persists, the software.dlm file may be corrupt. Source another .dlm file, then reload the software, GP 4.

303-325-00 System Detects the Machine Clock Failed to Increment During Power On RAP

303-325-00 The software detected that the machine clock failed to increment within 1.5 seconds during the power on self test operation.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

NOTE: The machine may continue to boot with this fault, but printing may be disabled. The status code, 303-505 is raised with this fault code.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-326-00 Software Upgrade Not Required RAP

303-326-00 Software upgrade not required, the same version is already on the machine.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

Code shown for information only. No service action necessary.

303-329-00, 303-330-00 Software Upgrade Request RAP

303-329-00 Software upgrade requested during active diagnostics.

303-330-00 Software upgrade requested during active security feature.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- 1. Exit diagnostics or the active security feature.
- 2. Reload the software, GP 4.

303-331-00, 303-332-00 Main Controller and Network Controller on the SBC PWB Cannot Communicate RAP

303-331-00 Integral network communication error on the single board controller PWB.

303-332-00 The main controller and network controller (integral components of the SBC PWB) were unable to communicate within 12 minutes.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- Switch off, then switch on the machine, GP 14.
- Check the network connection to the SBC PWB, PJ885 is correctly inserted.
- 3. Reload the software. GP 4.
- If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-338-00 SBC Main Controller Reset RAP

303-338-00 System detected that the software in the SBC PWB has been reset. This was due either to the watchdog timing out or the software writing to an illegal address.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- 1. Switch off, then switch on the machine, GP 14.
- Reload the software, GP 4.
- If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-346-00, 303-347-00 Single Board Controller PWB to UI Error RAP

303-346-00 Unable to re-establish communication with the UI after 30 seconds.

303-347-00 The SBC PWB to UI control PWB communications failed.

Initial Actions



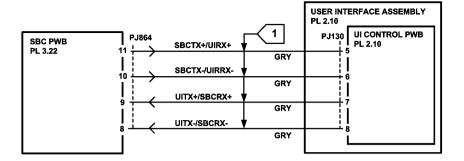
Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

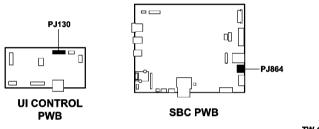
Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Go to Flag 1. Check the wiring between P/J130 on the UI control PWB and P/J864 on the SBC PWB. Repair the wiring, REP 1.2. Install new components as necessary:
 - SBC PWB to UI PWB harness, PL 3.22 Item 15.
 - UI control PWB, PL 2.10 Item 6.
- 3. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.





TW-1-0178-B

Figure 1 Circuit Diagram

303-355-00 CCM POST Failure Detected RAP

303-355-00 The software detected a CCM POST failure during the NVM integrity test.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.
- Re-seat the SD Card, PL 3.22 Item 6.

Procedure

NOTE: The machine may continue to boot with this fault, but printing may be disabled. The status code. 303-505 is raised with this fault code.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- Install a new SD card. PL 3.22 Item 6.
- 4. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-360-00, 303-800-00 IOT to Finisher RAP

303-360 The IOT PWB to output device communications failed.

303-800 Finisher communications reset after a machine crash.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Ensure the finisher power cord is connected to PJ652 on the LVPS.
- Switch off, then switch on the machine, GP 14.
- Check the fault history for 303-XXX fault codes. If the 303-XXX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 intermittent Failure RAP.
- (2K LCSS Only). Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- (2K LCSS Only). Perform REP 12.13-110 2K LCSS Un-docking. Check that the docking actuator, PL 12.15 Item 7 is correctly installed.
- (LVF BM Only). Check the LVF PWB and LVF BM PWB DIP switch settings. Refer to 312F-150 LVF PWB DIP Switch Settings RAP.
- (LVF BM Only). Perform REP 12.13-150 LVF BM Un-docking. Check that the docking actuator, PL 12.325 Item 8 is correctly installed.

Procedure



Do not connect the output device power cord directly to the AC wall outlet. The output device cannot operate without the machine. The machine controls the distribution of electricity to the output device for correct power on and power off sequencing.

The machine has a 2K LCSS.

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The machine has an LVF BM. Remove fuse F1 from the LVF PWB. Check the fuse, PL 12.425 Item 3. **The fuse is good.**

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Install a new LVF PWB. PL 12.425 Item 8.

Observe the software heartbeat LED (LED 1) on the LVF PWB, Figure 2. **LED 1 is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).**

1

If LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off) this indicates that the finisher software is corrupt. Reload the finisher software, GP 4. If necessary install a new LVF PWB, PL 12.425 Item 8.

Observe the software heartbeat LED (LED 1) on the LVF BM PWB, Figure 2. **LED 1** is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).

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If LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off) this indicates that the booklet maker software is corrupt. Reload the finisher software, GP 4. If necessary install a new LVF BM PWB, PL 12.425 Item 1.

Go to Flag 3. Check the wiring and connectors between P/J101 and P/J401. **The wiring and connectors are good.**

N

Repair the wiring or connectors, REP 1.2.

Go to Flag 1 and Flag 2. Check the wiring and connectors between P/J772 and P/J301. **The wiring and connectors are good.**

Repair the wiring or connectors, REP 1.2.

Perform the steps that follow:

- Go to the 312D-150 LVF Power Distribution RAP. Check the +5V and +24V supply from the power supply module to the LVF PWB. Ensure that the voltages are steady.
 Ensure that there is a good ground continuity between the power supply module, PL 12.425 Item 2 and the LVF BM frame. Install new components as necessary:
 - Power supply module, PL 12.425 Item 2.
 - LVF PWB, PL 12.425 Item 8.
- Reload the software using the forced AltBoot procedure, GP 4.
- The OF7 IOT PWB Diagnostics RAP.

Remove Fuse F1 from the 2K LCSS PWB. Check the fuse. The fuse is good.

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Install a new 2K LCSS PWB, PL 12.75 Item 1.

Observe the software heartbeat LED (LED 1) on the 2K LCSS PWB, Figure 1. **LED 1 is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).**

1

LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off), this indicates that the finisher software is corrupt. Reload the finisher software, GP 4. If necessary install a new 2K LCSS PWB, PL 12.75 Item 1.

Go to Flag 1 and Flag 2. Check the wiring and connectors between P/J772 and P/J301. **The wiring and connectors are good.**

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Repair the wiring or connectors, REP 1.2.

Perform the steps that follow:

- Go to the 312D-110 2K LCSS Power Distribution RAP. Check the +5V and +24V supply from the power supply module to the 2K LCSS PWB. Ensure that the voltages are steady.
 Ensure that there is a good ground continuity between the power supply module, PL 12.75 Item 2 and the 2K LCSS frame. Install new components as necessary:
 - Power supply module, PL 12.75 Item 2.
 - 2K LCSS PWB, PL 12.75 Item 1.
- Reload the software using the forced AltBoot procedure, GP 4.

The OF7 IOT PWB Diagnostics RAP.

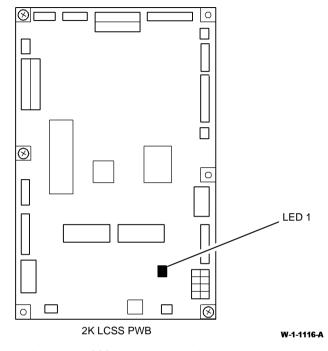
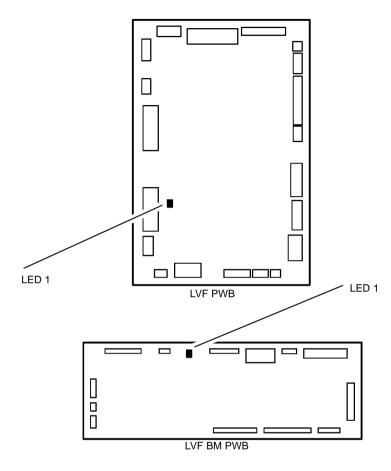
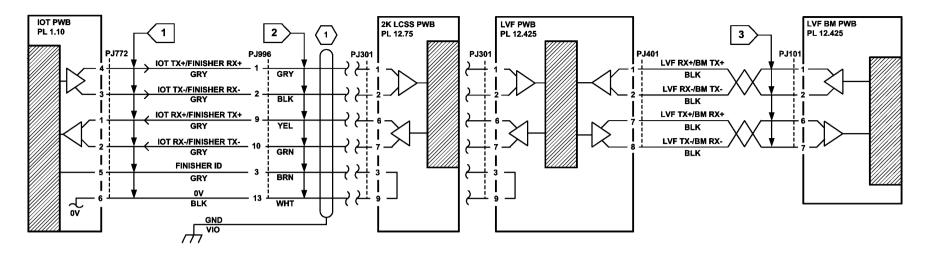


Figure 1 2L LCSS component location



W-1-1066-A

Figure 2 LVF BM component location



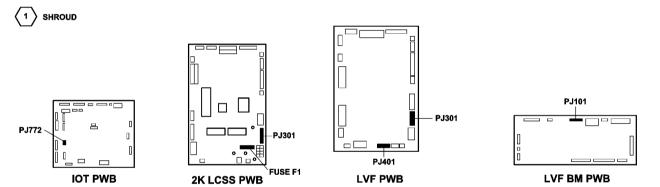


Figure 3 Circuit diagram

TW-1-0287-A

303-362-00 CCS Power Fault RAP

303-362-00 The SBC software failed to exit from a timer loop and detected that this was caused by an abnormal power condition.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

 Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- Switch off, then switch on the machine, GP 14.
- Check the wiring and connections between PJ655 on the LVPS and PJ850 on the SBC PWB. Refer to WD 2. Repair the wiring as necessary, REP 1.2.
- Go to the RAPs that follow. Check the low voltage supplies to the SBC PWB:
 - 301E +5V and +5VSB Distribution RAP.
 - 301G +24V Distribution RAP.
 - 301B 0V Distribution RAP.
- If necessary, install a new SBC PWB to LVPS harness, PL 3.22 Item 17.
- 5. If the fault persists, perform the procedures that follow:
 - 303D SBC PWB Diagnostics RAP.
 - 301L LVPS RAP.

303-397-00 System Configuration Recovery Attempt RAP

303-397-00 Machine speed was lost and an attempted recovery made (from SIM).

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.
- Switch off, then switch on the machine, GP 14.

Procedure

1. Go to the 303-405-00, 303-406-00 SIM Card Fault RAP.

303-398-00, 303-399-00 SOK 1 Not Detected RAP

303-398-00 SIM card serial number did not match the serial number in the system.

303-399-00 Unable to establish communications with the SIM card.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

- 1. For 303-398-00 only, perform the steps that follow:
 - a. If possible, install the original SIM card that was supplied with the machine.
 - b. If the original SIM card is not available, install a SIM card, PL 3.22 Item 5 that is compatible with the speed of machine and the PagePack requirement. Refer to GP 9 Machine SIM Card Matrix and GP 27 Machine Configuration Control and Recovery.
 - c. Enter the correct serial number. Refer to dC132 Serial Number.
- 2. If the fault persists, perform the 303-405-00, 303-406-00 SIM Card Fault RAP.

303-401-00, 303-403-00 Fax Not Detected RAP

303-401-00 The basic (1 line) fax module was not detected or confirmed.

303-403-00 The extended (2 line) fax module was not detected or confirmed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

- 1. Switch off, then switch on the machine, GP 14.
- 2. Check that the fax module, PL 20.05 Item 1, has been installed.
- 3. Perform the Initial Actions in 320A Fax Entry RAP.
- 4. Perform the 320G Fax Module Checkout RAP.
- 5. If necessary, reload the software, GP 4.
- 6. Install new components as necessary:
 - Fax PWB, PL 20.05 Item 7.
 - Fax connector PWB. PL 20.05 Item 4.
 - SBC PWB to fax connector ribbon cable, PL 3.22 Item 14.
- 7. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

303-405-00, 303-406-00 SIM Card Fault RAP

303-405-00 Machine class not set (unknown).

303-406-00 SIM speed did not match machine class.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.
- Ensure dC131 NVM location 616-328 is set to default.
- Check that the machine serial number is correct. Refer to dC132 Serial Number.

Procedure

Switch off, then switch on the machine, GP 14. Observe the LEDs on either side of the SIM card slot (CR15 and CR16). At initial power on, both LEDs should illuminate for approximately 1 minute and then switch off. The SIM card is then read. If a compatible SIM card is detected, the green LED (CR16) is illuminated.

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The red LED (CR15) is illuminated.

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Neither LED is illuminated. This indicates that the SIM card has not been detected. Remove the SIM card. Clean the contact face. Re-insert the SIM card. **The fault is fixed.**

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Perform the steps that follow:

- Check the 7-segment LED display for POST errors. If a POST error is indicated, go to the OF2 POST Error RAP.
- Check dC122 Fault History. Perform the appropriate RAP.
- If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Go to SCP 5 Final actions.

This indicates that the SIM card is not compatible with the system. (It is either from another machine or another system.) Install a new SIM card, PL 3.22 Item 5, that is compatible with the speed of the machine and the PagePack requirement. **The fault is fixed.**

'N

Perform the 303D SBC PWB Diagnostics RAP.

Go to SCP 5 Final actions.

This indicates that the inserted SIM card is compatible with the machine configuration. Go to SCP 5 Final Actions.

303-417-00 Incompatible Fax Software RAP

303-417-00 The fax software version supplied at power up is not compatible with the image processing software.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

Switch off, then switch on the machine, GP 14.

Perform the steps that follow:

- Reload the software. GP 4.
- 2. If necessary, install a new fax PWB, PL 20.05 Item 7.

303-777-00 Power Loss Detected RAP

303-777-00 This fault code in the fault history file indicates that the system has previously detected a power input loss.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check with the customer that the AC mains (line) input power supply is not experiencing interruptions.
- Check with the customer that the machine does not share a power supply with any other equipment. Sharing a power supply may cause the safety over-current device to switch off the electrical supply to the machine. This would cause a 303-777-00 fault. If possible, ensure the machine is connected to a dedicated power supply.
- Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.
- 4. Perform the 301C AC Power RAP. Check the power input circuit and its connectors.

303-788-00 Failed to Exit Power Save Mode RAP

303-788-00 The SBC software failed to enter power save mode. The SBC software was unable to update its parameters from the UI, when the machine previously came out of sleep mode. It was then unable to re-enter sleep mode.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the 303-346-00, 303-347-00 Single Board Controller PWB to UI Error RAP.

303-790-00 Time Zone Cannot Be Set RAP

303-790-00 At power up, the time zone was not valid due to NVM corruption, or an OS file system problem. Time zone overridden to GMT. DST disabled.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fault history file for other 303-XXX-XX fault codes. If the 303-XXX-XX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 Intermittent Failure RAP.

Procedure

Reset the time zone in Customer Administration Tools, refer to GP 24.

303A SBC PWB Battery RAP

Use this RAP when the machine exhibits any of the symptoms that follow:

- The date and time appearing on the customer's banner sheets and configuration report is 1st January 2000.
- The machine constantly reboots.
- The machine may not power up.
- The software cannot reference the time and date and may behave erratically.
- The HDD checking software will run at every reboot delaying the completion of the bootup.
- If the machine is set to pick up the time from an NTP server, it will cause a reboot and a disk check. This action may cycle continuously.

Procedure

NOTE: If directed here from any other procedure, always return to that procedure.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Observe ESD procedures during this procedure.

Switch off the machine, GP 14, but do not disconnect the power cord. Open the SBC PWB module. Refer to REP 3.2. Without removing the battery from the holder, check the voltage of the battery, Figure 2. **The battery voltage is below +2.6V.**

- Observe the green LED CR23, Figure 2. This is the SBC microprocessor heartbeat and should flash at approximately 0.5Hz to show that the microprocessor is running correctly. LED CR23 is flashing correctly.
 - Press and hold the power button on the UI for 15 seconds. This should reset the SBC microprocessor heartbeat. Observe CR23. **LED CR23** is flashing correctly.
 - N Install a new SBC PWB. PL 3.22 Item 3, then Set the Correct Date and Time.

Switch on the machine, GP 14. Set the Correct Date and Time.

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The battery and SBC PWB are good. If necessary Set the Correct Date and Time.

Install a new battery, PL 3.22 Item 19. Connect the power lead from the power supply outlet to the machine. Observe the green LED CR23, Figure 2. This is the SBC microprocessor heart-beat and should flash at approximately 0.5Hz to show that the microprocessor is running correctly. LED CR23 is flashing correctly.

Y N

Press and hold the power button on the UI for 15 seconds. This should reset the SBC microprocessor heartbeat. **LED CR23** is flashing correctly.

Y N

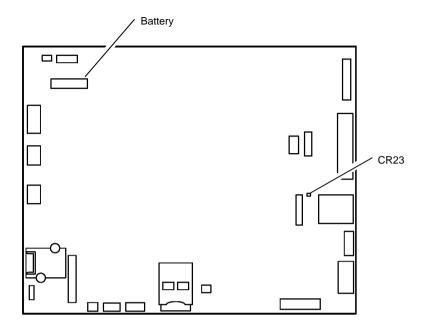
Install a new SBC PWB, PL 3.22 Item 3, then Set the Correct Date and Time.

Switch on the machine, GP 14. Set the Correct Date and Time.

Switch on the machine, GP 14. Set the Correct Date and Time.

Set the Correct Date and Time

- 1. Login to Customer Administrator Tools, GP 24.
- 2. Select Device Settings.
- 3. Select Date and Time.
- 4. Make the necessary changes to correct the date and time.



W-1-1070-A

Figure 2 SBC PWB

303B Mark Service Unavailable RAP

Before performing this RAP, any relevant status code RAP must have been performed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

- 1. Switch off the machine, GP 14. Disconnect the power cord and ensure all the P/Js are properly connected to the IOT PWB and the SBC PWB.
- Reload the software. GP 4.
- 3. Ensure that the output device communications cord is connected and secure at PJ966 at the rear of the machine.
- 4. Check the wiring between PJ966 at the rear of the machine and PJ772 on the IOT PWB.
- 5. Perform the procedures that follow as necessary:
 - OF7 IOT PWB Diagnostics RAP.
 - 303D SBC PWB Diagnostics RAP.

303C Switch Off Failure RAP

The machine failed to respond when the power button was pressed on the UI.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Press and hold the power button on the UI for more than 6 seconds. The machine switches off.

Y N

Press and hold the power button on the UI for 15 seconds. This should reset the SBC microprocessor. The machine switches off, then on.

Υ

Disconnect the main power cord from the power and control assembly.

Go to Flag 1. Disconnect and check the ribbon cable. Check that the cable locks on PJ910 and PJ907 are working effectively. **The ribbon cable and PJs are good.**

N

Clean the cable ends or repair any damage. Install new components as necessary:

- Control to keyboard PWB ribbon cable, PL 2.10 Item 10.
- UI keyboard PWB, PL 2.10 Item 9.
- UI control PWB, PL 2.10 Item 6.

Go to Flag 2. Disconnect P/J81 and P/J864. Check the harness and both P/Js. **The harness and P/Js are good.**

Y N

Perform the steps that follow as necessary:

- Repair the harness, REP 1.2.
- 303D SBC PWB Diagnostics RAP.
- Install a new UI control PWB. PL 2.10 Item 6.

Go to Flag 3. Disconnect P/J850 and P/J655. Check the harness and both P/Js. The harness and P/Js are good.

N

Perform the steps that follow as necessary:

- Repair the harness, REP 1.2.
- 303D SBC PWB Diagnostics RAP.
- 301L LVPS Diagnostics RAP.

Perform the steps that follow as necessary:

- 303D SBC PWB Diagnostics RAP.
- OF7 IOT PWB Diagnostics RAP.
- Install a new UI keyboard PWB, PL 2.10 Item 9.
- Install a new UI control PWB, PL 2.10 Item 6.

В

Set the correct date and time. Perform the steps that follow:

- 1. Login to Customer Administrator Tools, GP 24.
- Select Device Settings.
- 3. Select Date and Time.

. Make the necessary changes to correct the date and time.

The switch off circuit is working correctly. Switch on the machine, GP 14. Perform several normal machine switch off then switch on cycles. If the power button proves unreliable, install a new UI keyboard PWB, PL 2.10 Item 9.

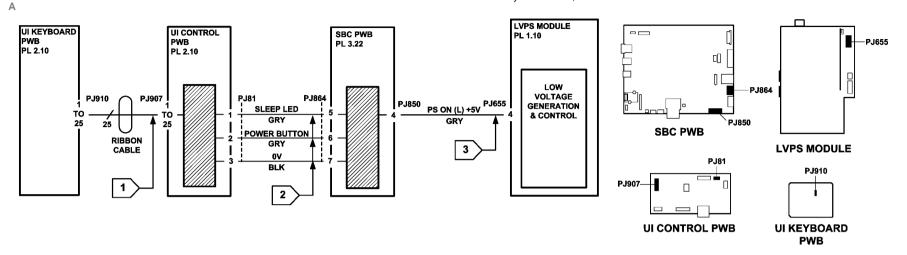


Figure 1 Circuit diagram

TW-1-0180-A

303D SBC PWB Diagnostics RAP

Purpose

To assist in identifying any suspected problems with the SBC PWB.

Procedure

NOTE: If directed here from any other procedure, always return to that procedure.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Observe ESD procedures during this procedure.

Perform the checks that follow:

- 1. SBC PWB Voltage Check.
- 2. SBC PWB LED Indicator Check.
- SBC PWB Connections Check.

SBC PWB Voltage Check

Refer to WD 2. Perform the steps that follow:

- 1. Check for +24V at PJ850 pins 1 and 2 on the SBC PWB.
 - If the +24V is not within the tolerance of +21.6 to +26.4V, install a new LVPS module, PL 1.10 Item 1.
 - If the +24V is not present, perform the 301G +124V Distribution RAP and the 301B 0V Distribution RAP.
- 2. Check for +5V at PJ850 pins 6, 7 and 14 on the SBC PWB.
 - If the +5V is not within the tolerance of +4.75V to +5.25V, install a new LVPS module, PL 1.10 Item 1.
 - If the +5V is not present, perform the 301E +5V and +5VSB Distribution RAP and the 301B 0V Distribution RAP.
- 3. Check for +5VSB at PJ850 pin 3 on the SBC PWB.
 - If the +5VSB is not within the tolerance of +4.75V to +5.25V, install a new LVPS module, PL 1.10 Item 1.

 If the +5V is not present, perform the 301E +5V and +5VSB Distribution RAP and the 301B 0V Distribution RAP.

SBC PWB LED Indicator Check

Perform the steps that follow:

- 1. Check the 7-segment display on the rear of the SBC PWB. If the display is blank with a flashing decimal point or showing a zero with a flashing decimal point, no action is required. For all other display readings, perform the OF2 POST Error RAP.
- Check the state of the LEDs on the SBC PWB, refer to Table 1 and Figure 2. Perform the relevant service actions.

Table 1 LED identifiers

| LED Identifier | LED Colour | Description |
|-------------------|---------------|---|
| CR6 | Green | Image path power good - this LED is lit when the machine is in normal power mode and there is no fault preventing full image path functionality. If the LED is not lit, switch off, then switch on the machine, GP 14. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| CR7 | Green | Power supply good - this LED is lit when power is good. If this LED is not lit, switch off, then switch on the machine, GP 14. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| CR11 | Green | SBC Kama FPGA configuration incomplete - this LED is lit in a fault condition. Switch off, then switch on the machine, GP 14. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| CR12 | Green | Image path sleep - this LED is lit when there is no image path activity when the machine is in low power mode. No service action required. |
| CR15 | Red | SIM card socket - this LED is lit during initialisation at power on, and then stays on if an incompatible SIM card is detected. If the LED illuminates when a SIM card is inserted, check that the card and socket contacts are clean. If necessary, install a SIM card, PL 3.22 Item 17 that is compatible with the speed of machine and the PagePack requirement. Refer to GP 9 Machine SIM Card Matrix. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| CR16 | Green | SIM card socket - this LED is lit during initialisation at power on, and then stays on if a compatible SIM card is detected. If the LED does not light when a SIM card is inserted, check that the card and socket contacts are clean. If necessary, install a SIM card, PL 3.22 Item 17 that is compatible with the speed of machine and the PagePack requirement. Refer to GP 9 Machine SIM Card Matrix. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| CR17 | Bi-colour | Ethernet speed. LED not lit = 10 Base-T or No Link. LED lit Yellow = 100 Base-T. LED lit Green = Gigabit Ethernet. If the LED does not indicate the expected speed, check all network connections. |

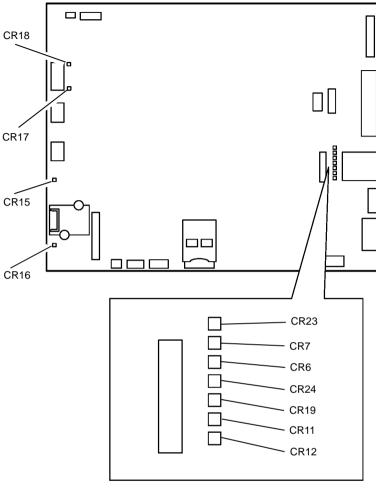
Table 1 LED identifiers

| LED Identifier | LED Colour | Description | |
|-------------------|---------------|--|--|
| CR18 | Green | Ethernet link/activity. LED not lit = no link. LED lit = linked but no activity. LED blinking = linked with RX/TX activity. If the LED does not indicate as expected, check all network connections. | |
| CR19 | Green | SBC Horizon FPGA configuration incomplete - this LED is lit in a fault condition. Switch off, then switch on the machine, GP 14. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. | |
| CR23 | Green | SBC microprocessor heartbeat - this LED flashes at approximately 0.5Hz to show that the microprocessor is running correctly. Switch off, then switch on the machine, GP 14. If the fault persists, perform the 303A SBC PWB Battery RAP. | |
| CR24 | Red | SBC microprocessor power fail - this LED is lit when there is a power supply problem to the SBC microprocessor. Switch off, then switch on the machine, GP 14. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. | |

SBC PWB Connections Check

Perform the steps that follow:

- 1. Switch off the machine, GP 14.
- Open the SBC PWB module. Refer to REP 3.2. Disconnect all connectors from the SBC PWB. Ensure the connectors on the harnesses are clean and undamaged.
- 3. Remove the SBC PWB. Refer to REP 3.3. Ensure the connectors on the PWB are clean and undamaged.
- 4. Remove the SD card, PL 3.22 Item 6. Ensure the contacts on the card and PWB are clean. Install the SD card.
- Install the SBC PWB. Refer to REP 3.3.
- 6. Connect all connectors on the SBC PWB.
- 7. Switch on the machine, GP 14. If the problem with the SBC PWB persists, install a new SBC PWB, PL 3.22 Item 3.



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Figure 2 SBC PWB LED locations

303E Foreign Device PWB Fault RAP

Use this RAP when the foreign interface device is not detected at power on.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not show the customer how to install a temporary shorting link. Do not leave a shorting link installed.

- Switch off, then switch on the machine, GP 14.
- Ensure that the foreign device is enabled in tools:
 - Log in as administrator.
 - Select Tools / Accounting Settings / Accounting Mode / Auxiliary Access / Auxiliary Device Type.
 - 3. Select the device type.
 - 4. Select Save.
 - 5. Exit tools.
 - Switch off, then switch on the machine. GP 14.
- Ensure the foreign interface PWB, PL 3.22 Item 18 is securely connected to the SBC PWB, PL 3.22 Item 3.

NOTE: Do not attach a foreign interface vend adaptor with this configuration of foreign interface PWB.

Procedure

Go to Flag 1. +3.3V is available at P/J100 between pins 2 and 3, also between pins 1 and 3.

,

Disconnect the foreign device from P/J124. +3.3V is available at P/J100 between pins 2 and 3, also between pins 1 and 3.

N

в с

Disconnect P/J100. +3.3V is available at J100 on the foreign interface PWB between pins 2 and 3, also between pins 1 and 3.

Y N

Disconnect the foreign interface PWB. +3.3V is available at P/J881 on the SBC PWB at pins 1, 5, 9, 16 and 22.

N

Check the voltages that follow:

- +5V supply to the +3V generator on the SBC PWB. Refer to the 301D +3.3V Distribution RAP.
- +5V return supply to the +3V generator on the SBC PWB. Refer to the 301B 0V Distribution RAP.

If the supplies are good, perform the 303D SBC PWB Diagnostics RAP.

B C D Install a new foreign interface PWB, PL 3.22 Item 18.

Install a new foreign device interface harness, PL 3.22 Item 24.

The foreign device is faulty.

Disconnect the foreign device. Install a temporary shorting link between pins 2 and 3 on P/J124. Check the voltage at PJ124 pin 1. **0V** is measured.

′ N

Install a new foreign interface PWB, PL 3.22 Item 18. If the fault persists, the foreign device is faulty.

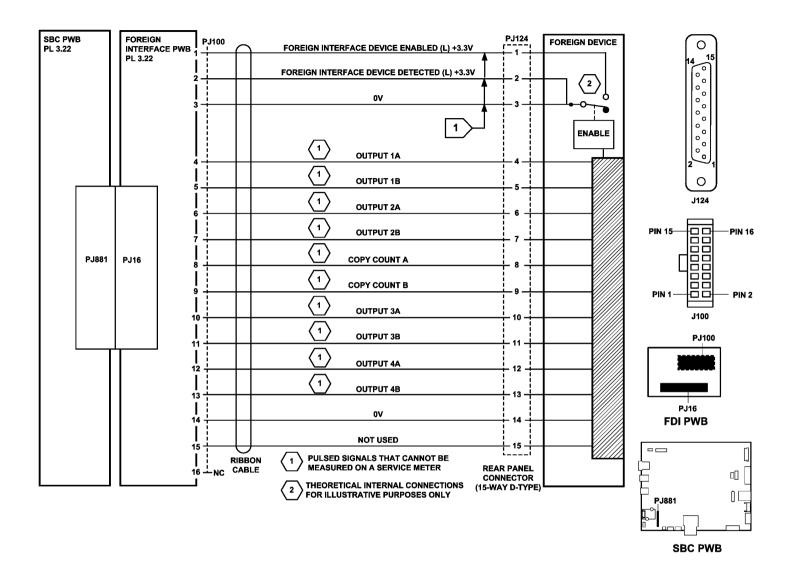
Disconnect the foreign device. Install a temporary shorting link between pins 1 and 3 on P/J124. Check the display. Ensure the machine is now enabled to scan or print. **The machine is enabled.**

Y N

Install a new foreign interface PWB, PL 3.22 Item 18. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

The enable circuits are working correctly.

NOTE: Currently the signals used for billing, e.g. machine function, or premium tray, cannot be adequately measured with a standard meter.



TW-1-0179-A

Figure 1 Circuit diagram

305-253-00 SPDH Communications Error RAP

305-253-00 The scanner PWB to SPDH PWB communications failed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault is fixed.

Flag 1. Disconnect, then check the ribbon cable between P/J460 on the SPDH PWB and P/J417 on the Scanner PWB. **The ribbon cable and connectors are undamaged.**

N

Clean or repair the ribbon cable or connectors. If necessary, install new components:

- Side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
- Scanner PWB, PL 60.20 Item 4.
- SPDH PWB, PL 5.10 Item 5.

Reconnect the P/J460 to P/J417 ribbon cable. Go to Flag 2. Disconnect, then check the data cable and connectors, P/J411 on the Scanner PWB and P/J854 on the SBC PWB. The data cable and connectors are undamaged.

Y N

Clean or repair the data cable connectors. If necessary, install new components:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB. PL 60.20 Item 4.

Perform an AltBoot, GP 4. If the fault persists, install new components as necessary:

- Scanner PWB. PL 60.20 Item 4.
- SPDH PWB. PL 5.10 Item 5.

Perform SCP 5 Final Actions.

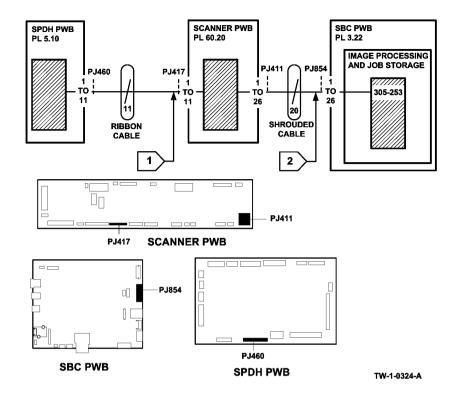


Figure 1 Circuit diagram

305-300-00 SPDH Open RAP

305-300-00 The SPDH platen down sensor detected that the SPDH opened during run.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the operation of the DH angle sensor actuator, PL 60.20 Item 12 and the actuator spring, PL 60.20 Item 11. Ensure that they operate the DH platen down sensor correctly. Enter dC330, code 062-019, DH platen down sensor, Q62-019. Actuate Q62-019. **The display changes.**

N

Go to Flag 1. Check Q62-019.

- Refer to:
 Figure 1.
- GP 11, How to Check a Sensor.
- P/J423, Scanner PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- DH platen down sensor, PL 60.20 Item 7.
- Scanner PWB, PL 60.20 Item 4.

Check that Q62-019 is installed correctly.

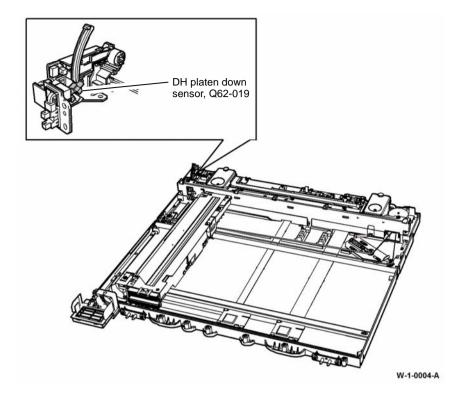
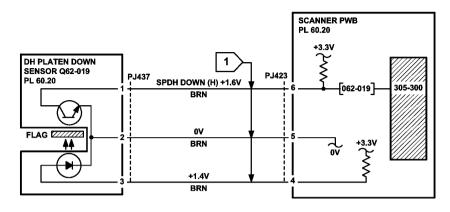
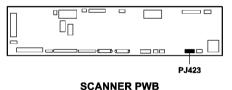


Figure 1 Component location





TW-1-0006-A

Figure 2 Circuit diagram

305-305-00 SPDH Top Cover Open RAP

305-305-00 The SPDH top cover interlock switch detected that the top cover is open.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- · Remove all documents from the SPDH.
- Check the top cover interlock actuator, Figure 1. If the actuator is damaged, install a new SPDH top cover, PL 5.10 Item 8.

Procedure

Enter dC330, code 005-305, top cover interlock, S05-305, Figure 1. Actuate S05-305. **The display changes.**

N

Go to Flag 1. Check S05-305.

Refer to:

- GP 13 How to Check a Switch.
- P/J461, Scanner PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Top cover interlock switch, PL 5.10 Item 13.
- SPDH PWB, PL 5.10 Item 5.

Check that S05-305 is installed correctly and that the switch arm is not bent or damaged. The switch should be heard to click as it is actuated or de-actuated by closing and opening the top cover.

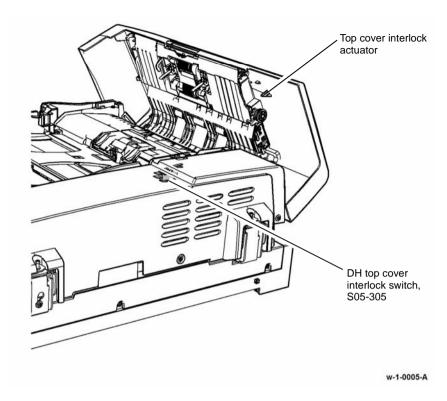


Figure 1 Component location

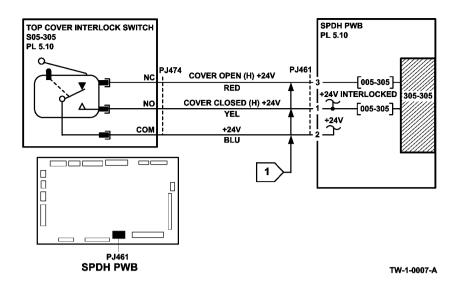


Figure 2 Circuit diagram

305-335-00, 305-336-00 SPDH Takeaway Sensor Paper Jam RAP

305-335-00 The SPDH takeaway sensor failed to detect the lead edge of the document within the correct time.

305-336-00 The SPDH takeaway sensor detected a paper jam.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check the paper path of the SPDH. Remove any obstructions such as paper debris, staples or paper clips.
- Ensure TAG D-004 is installed. If necessary, install either the SPDH mylar kit, PL 31.14 Item 14 or the seperation assembly kit, PL 31.14 Item 15.

Procedure

Open the SPDH top cover, PL 5.10 Item 8. Enter dC330, code 005-335, takeaway sensor, Q05-335, Figure 1. Actuate Q05-335 by opening and closing the SPDH top cover. **The display changes.**

' N

Go to Flag 1. Check Q05-335.

Refer to:

- GP 38 How to Check an Adaptive Sensor.
- P/J465, Scanner PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Takeaway sensor, PL 5.20 Item 10.
- SPDH PWB, PL 5.10 Item 5.

Open the SPDH top cover, PL 5.10 Item 8. Hold the top cover interlock switch closed using the shank of a standard interlock cheater. Enter dC330, code 005-020 to run the feed motor, MOT05-020. **The motor runs.**

N

Go to Flag 2. Check MOT05-020.

Refer to:

- GP 10 How to Check a Motor.
- P/J468, Scanner PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

• Feed motor, PL 5.18 Item 2.

SPDH PWB. PL 5.10 Item 5.

Hold the top cover interlock switch closed. Enter dC330, code 005-020 to run the feed motor, MOT05-020. Add the code 005-425 to energize the takeaway clutch, CL05-425. **The takeaway roll rotates.**

Y N

Go to Flag 5. Check CL05-425.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J471, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Check the condition and operation of the items that follow. Refer to GP 7 Miscellaneous Checks:

- Feed motor belt, PL 5.19 Item 19. Perform ADJ 5.1 SPDH Drive Belts if necessary.
- Takeaway roll, PL 5.17 Item 1.
- Takeaway roll gear, PL 5.17 Item 8.
- Takeaway roll idlers (part of PL 5.20 Item 15).
- Feed clutch drive gear/pulley, PL 5.19 Item 4.

Install new components as necessary:

- Takeaway clutch, CL05-425, PL 5.18 Item 4.
- SPDH PWB, PL 5.10 Item 5.
- Takeaway roll, PL 5.17 Item 1.
- Takeaway roll gear, PL 5.17 Item 8.
- Top cover assembly, PL 5.20 Item 15.

Place a sheet of paper over the separation assembly. Close the top cover. Enter dC330, code 005-020 to run the feed motor, MOT05-020. Add the code 005-025 to energize the feed clutch, CL05-025. **The feed, nudger and retard rolls rotate and feed the sheet under the SPDH top cover.**

N

Go to Flag 3. Check CL05-025.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J471, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Check the condition and operation of the items that follow. Refer to GP 7 Miscellaneous Checks:

- Feed motor belt, PL 5.19 Item 19. Perform ADJ 5.1 SPDH Drive Belts if necessary.
- Feed assembly. PL 5.20 Item 16.
- Separation assembly, PL 5.25 Item 8.

Install new components as necessary:

- Feed clutch, CL05-025, PL 5.18 Item 4.
- SPDH PWB, PL 5.10 Item 5.
- Feed assembly, PL 5.20 Item 16.

Separation assembly, PL 5.25 Item 8.

Enter dC330 code 005-310, stack height sensor, Q05-310. Actuate Q05-310 using the sensor actuating arm, Figure 1. **The display changes.**

, |

Go to Flag 4. Check Q05-310.

Refer to:

- GP 11 How to Check a Sensor.
- P/J465, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Stack height sensor, PL 5.20 Item 4.
- Sensor actuating arm (part of PL 5.20 Item 15).
- SPDH PWB, PL 5.10 Item 5.

Close the top cover. Enter dC330, code 005-020 to run the feed motor, MOT05-020. Add the code 005-025 to energize the feed clutch, CL05-025. The $\,$ nudger $\,$ roll $\,$ drops towards the input tray.

ΥN

Check the nudger roll housing will both latch in the up position and drop to the lowered position without binding. Check around the housing for paper debris or misplaced components that could prevent correct operation.

Check the items that follow:

- Feed assembly drive belt, PL 5.19 Item 18.
- Nudger roll housing, PL 5.20 Item 8.
- Shaft. PL 5.20 Item 5.
- Shaft, PL 5.20 Item 12.

Install new components as necessary:

- Feed assembly drive belt, part of the SPDH drive kit, PL 5.19 Item 23.
- Top cover assembly, PL 5.20 Item 15.

Perform the steps that follow:

- Check the takeaway roll static eliminator, Figure 1.
- Ensure that the SPDH is connected to ground correctly. Refer to 301A Ground Distribution RAP.
- Check the condition and operation of the items that follow. If necessary clean the items or install new components:
 - Feed roll, PL 5.20 Item 6.
 - Nudger roll, PL 5.20 Item 7.
 - Retard roll, PL 5.25 Item 3.
- Check for a malfunction of the last sheet out sensor, Q05-308. Perform the 305B Last Sheet Out Sensor Failure RAP.
- Check the correct location and mechanical operation of the stack height sensor, Q05-310 and the stack height sensor actuating arm, Figure 1. Refer to REP 5.8.

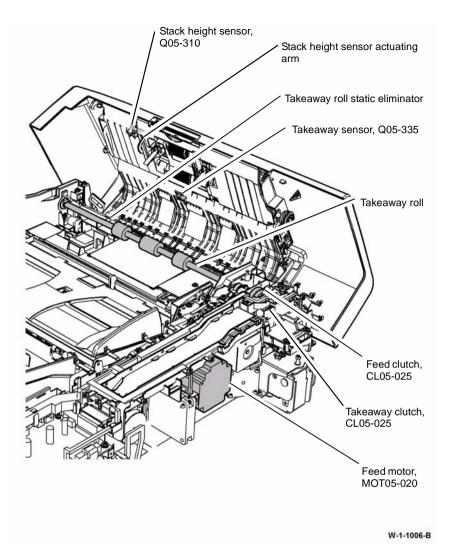
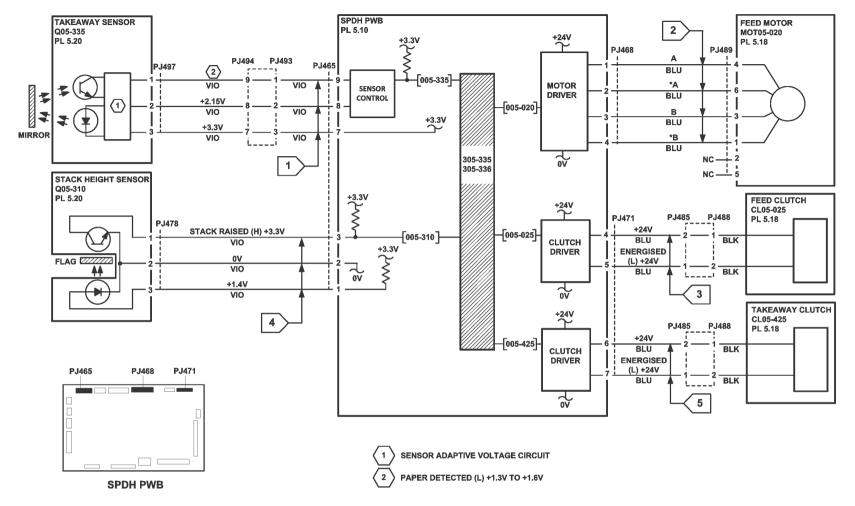


Figure 1 Component location



TW-1-0008-B

Figure 2 Circuit diagram

305-340-00, 305-341-00 SPDH Reg Sensor Failure RAP

305-340-00 The SPDH reg sensor failed to detect the lead edge of the document within the correct time.

305-341-00 The SPDH reg sensor detected a paper jam.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check the paper path of the SPDH. Remove any obstructions such as paper debris, staples or paper clips.

Procedure

Enter dC330, code 005-340, reg sensor, Q05-340, Figure 1. Open the SPDH. Actuate Q05-340 using a strip of paper. **The display changes.**

N

Go to Flag 1. Check Q05-340.

Refer to:

- GP 38 How to Check an Adaptive Sensor.
- P/J467, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Reg sensor, PL 5.18 Item 11.
- SPDH PWB, PL 5.10 Item 5.

Remove the SPDH rear cover, PL 5.10 Item 1. Hold the top cover interlock switch closed. Enter dC330, code 005-030 to run the read motor, MOT05-030. **The motor runs.**

N

Go to Flag 2. Check MOT05-030.

Refer to:

- GP 10 How to Check a Motor.
- P/J468. SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Read motor, PL 5.18 Item 1.
- SPDH PWB, PL 5.10 Item 5.

Perform the steps that follow:

- Check the items that follow. Refer to GP 7 Miscellaneous Checks:
 - Read motor belt, PL 5.19 Item 18. Perform ADJ 5.1. SPDH Drive Belts if necessary.

- Mid scan drive belt, PL 5.19 Item 21. Perform ADJ 5.1. SPDH Drive Belts if necessary.
- Pre scan drive belt, PL 5.19 Item 20. Perform ADJ 5.1. SPDH Drive Belts if necessary.
- Pre scan roll assembly, PL 5.17 Item 4.
- Pre scan roll drive pulley, PL 5.19 Item 12.
- Mid scan roll drive pulley, PL 5.19 Item 13.
- Check the pre scan roll static eliminator, Figure 2.
- Ensure that the SPDH is connected to ground correctly. Refer to the 301A Ground Distribution RAP.

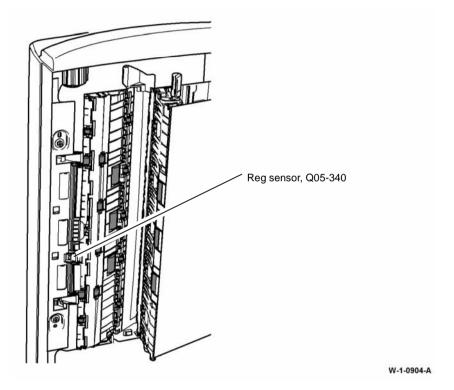


Figure 1 Component location

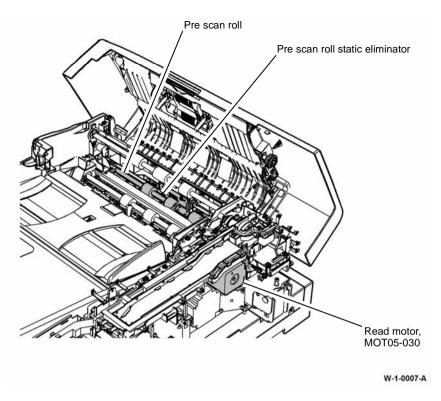
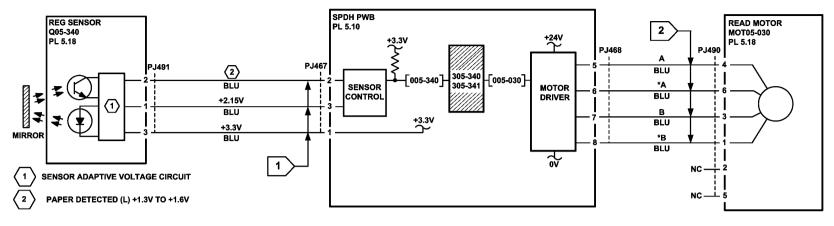
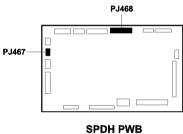


Figure 2 Component location





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Figure 3 Circuit diagram

305-342-00, 305-343-00 SPDH Side 2 Reg Sensor Failure RAP

305-342-00 The SPDH side 2 reg sensor failed to detect the lead edge of the document within the correct time.

305-343-00 The SPDH side 2 reg sensor detected a paper jam.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check the paper path of the SPDH. Remove any obstructions such as paper debris, staples or paper clips.

Procedure

Enter dC330, code 005-343, side 2 reg sensor, Q05-343. Open the SPDH. Open and close the jam clearance baffle to actuate Q05-343, Figure 1. **The display changes.**

N

Go to Flag 1. Check Q05-343.

Refer to:

- GP 38 How to Check an Adaptive Sensor.
- P/J466, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Side 2 reg sensor, PL 60.30 Item 8.
- SPDH PWB, PL 5.10 Item 5.

Remove the SPDH rear cover, PL 5.10 Item 1. Hold the top cover interlock switch closed. Enter dC330, code 005-030 to run the read motor, MOT05-030, Figure 2. **The motor runs.**

N

Go to Flag 2. Check MOT05-030.

Refer to:

- GP 10 How to Check a Motor.
- P/J468, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Read motor, PL 5.18 Item 1.
- SPDH PWB, PL 5.10 Item 5.

Perform the steps that follow:

Check the items that follow. Refer to GP 7 Miscellaneous Checks:

- Read motor belt, PL 5.19 Item 18. Perform ADJ 5.1. SPDH Drive Belts if necessary.
- Mid scan drive belt, PL 5.19 Item 21. Perform ADJ 5.1. SPDH Drive Belts if necessary.
- Mid scan roll assembly, PL 5.17 Item 4.
- Mid scan roll drive pulley, PL 5.19 Item 13.
- Ensure that the SPDH is connected to ground correctly. Refer to the 301A Ground Distribution RAP.

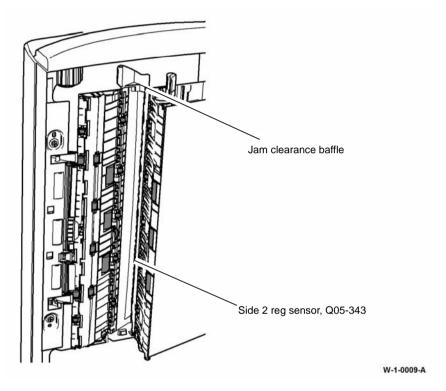


Figure 1 Component location

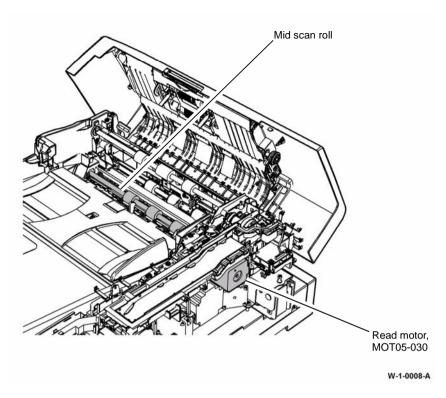


Figure 2 Component location

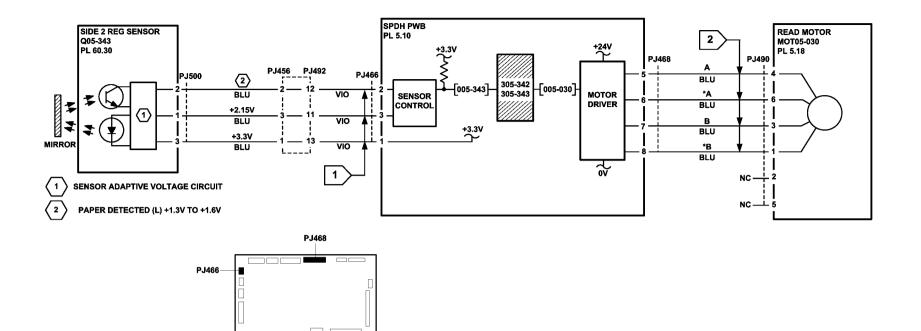


Figure 3 Circuit diagram

SPDH PWB

TW-1-0010-A

305-940-00, 305-966-00 SPDH No Original RAP

305-940-00 The SPDH doc present sensor detected that the original has been removed.

305-966-00 The SPDH doc present sensor detected that the original has not been fully inserted in the input tray.

NOTE: Documents placed on the top cover of the SPDH can overhang the input tray and trigger the sensors. This can cause the SPDH to falsely detect a document, causing a feed error.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check the condition of the originals. Curl or folds may prevent the originals being detected.
- Check around the input tray. Remove any obstructions such as paper debris, staples, or paper clips.
- Ensure that the document width guides are set correctly for the originals in use.

Procedure

Enter dC330, code 005-309, doc present sensor, Q05-309. Actuate Q05-309 using the doc present sensor actuator, Figure 1. **The display changes.**

f |

Go to Flag 1. Check Q05-309.

Refer to:

- GP 11 How to Check a Sensor.
- P/J462, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Doc present sensor, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

Check that Q05-309, PL 5.30 Item 5 and the doc present sensor actuator, PL 5.30 Item 6 are correctly installed and undamaged.

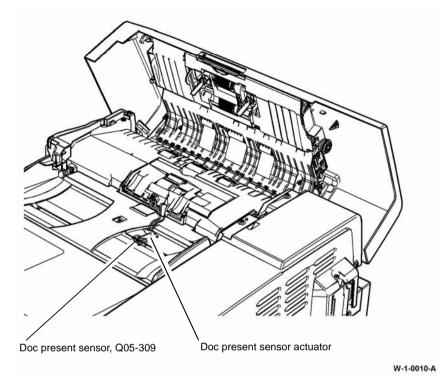
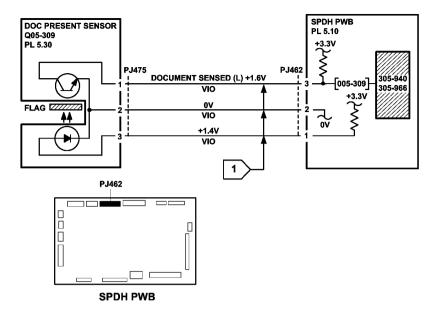


Figure 1 Component location



TW-1-0011-A

Figure 2 Circuit diagram

305-941-00 Insufficient Originals RAP

305-941-00 The machine detected that too few originals were re-loaded after jam clearance.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Re-sort then reload all originals.
- 2. If the fault persists, clear the job, then start again.

305-958-00 SPDH Lift Home Position Sensor Failure RAP

305-958-00 The lift home position sensor failed to sense the home position after the tray elevate motor drove the input tray to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check around the input tray. Remove any obstructions such as paper debris, staples or paper clips.

Procedure

Enter dC330, code 005-390 to run the tray elevator motor, MOT05-390. The motor runs and cycles the tray between the raised and lowered positions.

Y N

Remove the SPDH rear cover PL 5.10 Item 1. Remove the sensor bracket, PL 5.18 Item 10. Turn over the bracket to access the lift home position sensor, Figure 1. Enter dC330 code 005-307, lift home position sensor, Q05-307. Actuate Q05-307 using a piece of paper. **The display changes.**

Y N

Go to Flag 1. Check Q05-307.

Refer to:

- GP 11 How to Check a Sensor.
- P/J462, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Lift home position sensor, PL 5.18 Item 9.
- SPDH PWB, PL 5.10 Item 5.

Enter dC330, code 005-309, doc present sensor, Q05-309. Actuate Q05-309 using the doc present sensor actuator, Figure 2. **The display changes.**

Y N

Go to Flag 3. Check Q05-309.

Refer to:

- GP 11 How to Check a Sensor.
- P/J462, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Doc present sensor, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

В

Open the top cover to access the stack height sensor, Q05-310, Figure 2. Enter dC330, code 005-310, stack height sensor, Q05-310. Actuate Q05-310 using the sensor actuating arm. **The display changes.**

Υ

Go to Flag 4. Check Q05-310.

Refer to:

- GP 11 How to Check a Sensor.
- P/J465, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Stack height sensor, PL 5.20 Item 4.
- Sensor actuating arm (part of top cover assembly, PL 5.20 Item 15).
- SPDH PWB. PL 5.10 Item 5.

Go to Flag 2. Check MOT05-390.

Refer to:

- GP 10 How to Check a Motor.
- P/J469, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray elevator motor, PL 5.18 Item 3.
- SPDH PWB, PL 5.10 Item 5.

Check the drive components between MOT05-390 and the input tray shaft assembly. If necessary install new tray elevator reduction gears, PL 5.19 Item 9.

Perform SCP 5 Final actions.

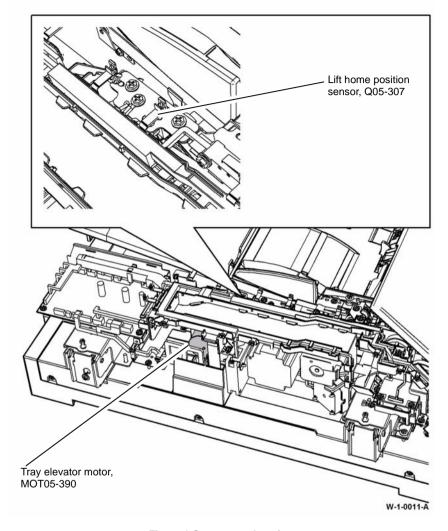


Figure 1 Component location

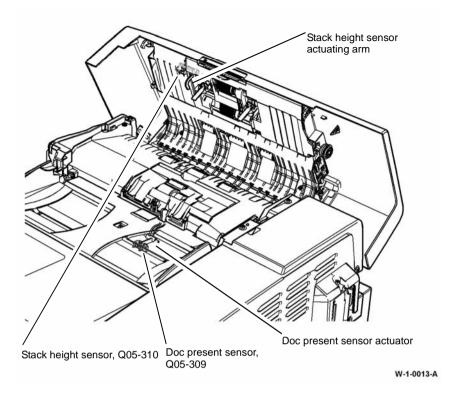


Figure 2 Component location

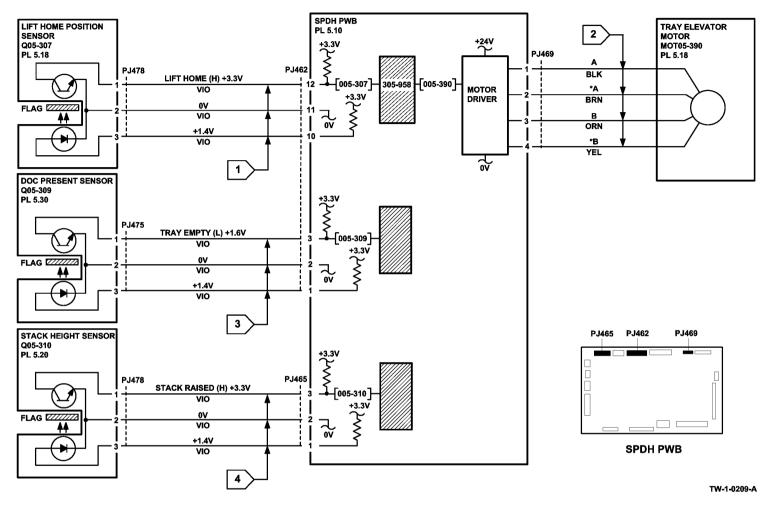


Figure 3 Circuit diagram

305-959-00 SPDH Calibration Home Position Sensor Failure RAP

305-959-00 The calibration home position sensor failed to sense the home position after the read motor drove the calibration mechanism to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH.
- Check around the calibration mechanism. Remove any obstructions such as paper debris, staples or paper clips.

Procedure

Remove the SPDH rear cover PL 5.10 Item 1. Observe the calibration home position sensor and the sensor flag, Figure 1. Enter dC330, code 005-360, calibration home position sensor, Q05-360. Actuate Q05-360 by rotating the exit jam clearance knob, PL 5.17 Item 5 and observing the position of the flag. **The display changes.**

Y N

Go to Flag 1. Check Q05-360.

Refer to:

- GP 11 How to Check a Sensor.
- P/J464, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Calibration home position sensor, PL 5.18 Item 9.
- SPDH PWB. PL 5.10 Item 5.

Enter dC330, code 005-430 to run the read motor, MOT05-030, in reverse to drive the calibration shutter mechanism. The motor runs and the exit jam clearance knob turns in a clockwise direction.

′ N

The motor runs but the jam clearance knob remains stationary.

N

Go to Flag 2. Check MOT05-030.

Refer to:

- Figure 1.
- GP 10 How to Check a Motor.
- P/J468. SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Read motor, PL 5.18 Item 1.
- SPDH PWB, PL 5.10 Item 5.

Check the drive components between the read motor and the calibration mechanism. Install new components as necessary:

- Read motor belt, PL 5.19 Item 18.
- Mid scan drive belt. PL 5.19 Item 21.
- Exit roll drive pulley, PL 5.19 Item 12.
- Calibration shutter drive gear, PL 5.19 Item 10.
- Calibration shutter idler gear, PL 5.19 Item 7.
- Calibration shutter driven gear, PL 5.19 Item 8.

Check the calibration shutter mechanism, Figure 2. Repair any damaged components if possible. If necessary install a new SPDH, PL 5.10 Item 9.

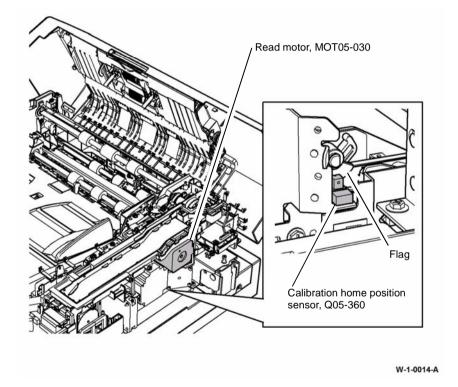


Figure 1 Component location

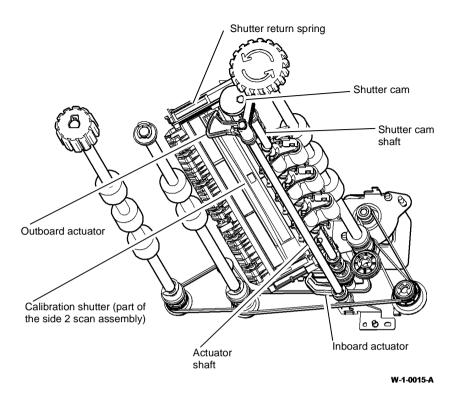
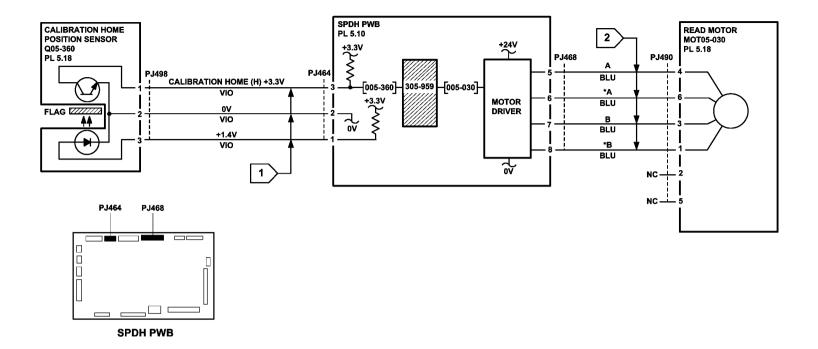


Figure 2 Calibration shutter mechanism



TW-1-0012-A

Figure 3 Circuit diagram

305-960-00 The LED cooling fan failed to rotate.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Remove the SPDH rear cover, PL 5.10 Item 1. Hold the top cover interlock switch closed. Enter dC330, code 005-370 to run the LED cooling fan, MOT05-370, Figure 1. **The motor runs.**

Go to Flag 1. Check MOT05-370.

Refer to:

- GP 10 How to Check a Motor.
- P/J471, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- LED cooling fan, PL 5.18 Item 8.
- SPDH PWB, PL 5.10 Item 5.

Add the dC330, code 005-375 to check the DH LED fan lock alarm. The display reads high.

Y N

Switch off, then switch on the machine. If the fault persists, install new components:

- LED cooling fan, PL 5.18 Item 8.
- SPDH PWB, PL 5.10 Item 5.

Install a new LED cooling fan, PL 5.18 Item 8.

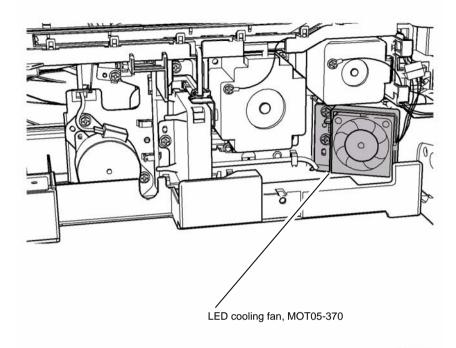
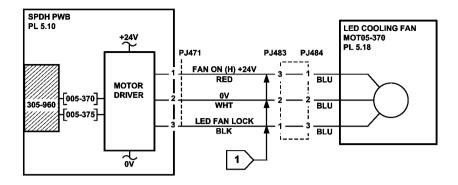
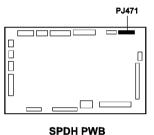


Figure 1 Component location

W-1-0016-A





TW-1-0014-A

Figure 2 Circuit diagram

305-961-00 SPDH Motor Fan Lock Alarm RAP

305-961-00 The motor cooling fan failed to rotate.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Remove the SPDH rear cover, PL 5.10 Item 1. Hold the top cover interlock switch closed. Enter dC330, code 005-380 to run the motor cooling fan, MOT05-380, Figure 1. **The motor runs.**

′ N

Go to Flag 1. Check MOT05-380.

Refer to:

- GP 10 How to Check a Motor.
- P/J470, SPDH PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Motor cooling fan, PL 5.18 Item 7.
- SPDH PWB, PL 5.10 Item 5.

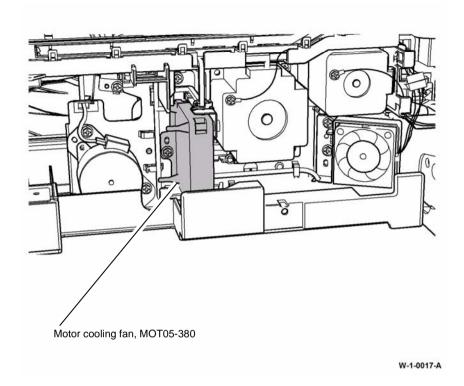
Add the dC330 code 005-385 to check the DH motor fan lock alarm. The display reads high.

Υ

Switch off, then switch on the machine, GP 14. If the fault persists, install new components:

- Motor cooling fan, PL 5.18 Item 7.
- SPDH PWB, PL 5.10 Item 5.

Install a new motor cooling fan, PL 5.18 Item 7.



SPDH PWB
PL 5.10

+24V

PJ470

FAN ON (H) +24V

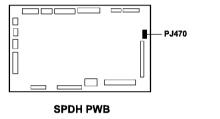
RED

MOTOR FAN LOCK

WHT

OV

BLK



TW-1-0015-A

Figure 1 Component location

Figure 2 Circuit diagram

305-962-00 SPDH Feed Sensor Adjustment Error RAP

305-962-00 An error occurred during the automatic adjustment of the feed sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Open the SPDH top cover, PL 5.10 Item 8. Insert a strip of paper over the mirror for the feed sensor. Close the SPDH top cover. Enter dC330, code 005-330, DH feed sensor, Q05-330, Figure 1. Actuate Q05-330 by moving the paper strip on and off of the mirror. **The display changes.**

Y N

Go to Flag 1. Check Q05-330. Refer to:

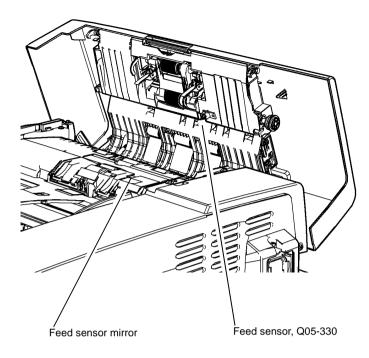
- GP 38 How to Check an Adaptive Sensor.
- P/J465, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Feed sensor, PL 5.20 Item 10.
- SPDH PWB, PL 5.10 Item 5.

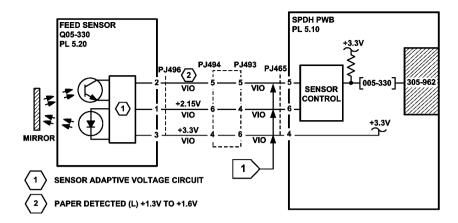
Clean the feed sensor mirror, Figure 1. Switch off, then switch on the machine, GP 14. If the fault persists, install new components:

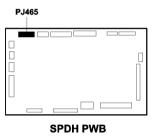
- Feed sensor, PL 5.20 Item 10.
- SPDH PWB, PL 5.10 Item 5.



W-1-0018-A

Figure 1 Component location





TW-1-0016-A

Figure 2 Circuit diagram

305-963-00 SPDH Takeaway Sensor Adjustment Error RAP

305-963-00 An error occurred during the automatic adjustment of the takeaway sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Open the SPDH top cover, PL 5.10 Item 8. Insert a strip of paper over the mirror for the take-away sensor. Close the SPDH top cover. Enter dC330, code 005-335, takeaway sensor, Q05-335, Figure 1. Actuate Q05-335 by moving the paper strip on and off of the sensor mirror. **The display changes.**

N

Go to Flag 1. Check Q05-335.

Refer to:

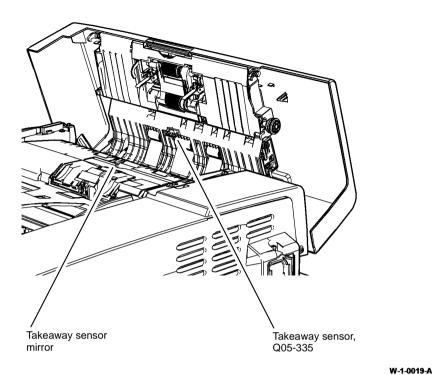
- GP 38 How to Check an Adaptive Sensor.
- P/J465, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Takeaway sensor, PL 5.20 Item 10.
- SPDH PWB, PL 5.10 Item 5.

Clean the takeaway sensor mirror, Figure 1. Switch off, then switch on the machine, GP 14. If the fault persists, install new components:

- Takeaway sensor, PL 5.20 Item 10.
- SPDH PWB, PL 5.10 Item 5.



PJ465

PJ465

SPDH PWB

TW-1-0017-A

VIO

+2.15V VIO

+3.3V

VIO

TAKEAWAY SENSOR Q05-335 PL 5.20

SENSOR ADAPTIVE VOLTAGE CIRCUIT

MIRROR

SPDH PWB PL 5.10

> SENSOR CONTROL

VIO A

VIO .

VIO A

-[005-335]-

+3.3V

Figure 1 Component location

Figure 2 Circuit diagram

305-964-00 SPDH Reg Sensor Adjustment Error RAP

305-964-00 An error occurred during the automatic adjustment of the registration sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 005-340, reg sensor, Q05-340, Figure 1. Actuate Q05-340 using a strip of paper. **The display changes.**

1

Go to Flag 1. Check Q05-340.

Refer to:

- Figure 1.
- GP 38 How to Check an Adaptive Sensor.
- P/J467, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Reg sensor, PL 5.18 Item 11.
- SPDH PWB, PL 5.10 Item 5.

Clean the reg sensor mirror, Figure 1. Switch off, then switch on the machine, GP 14. If the fault persists, install new components:

- Reg sensor, PL 5.18 Item 11.
- SPDH PWB, PL 5.10 Item 5.

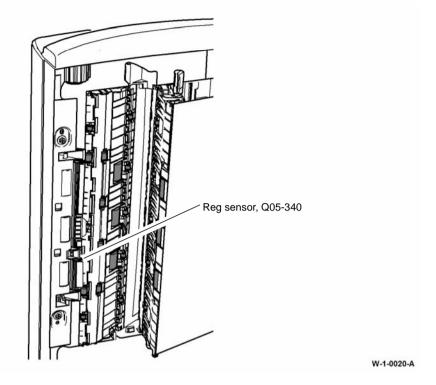
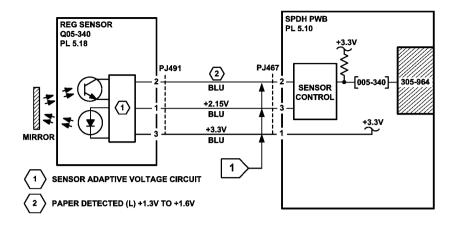
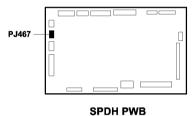


Figure 1 Component location





TW-1-0018-A

Figure 2 Circuit diagram

305-965-00 SPDH Side 2 Reg Sensor Adjustment Error **RAP**

305-965-00 An error occurred during the automatic adjustment of the side 2 registration sen-

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 005-343, side 2 reg sensor, Q05-343. Open the SPDH. Open and close the jam clearance baffle to actuate Q05-343, Figure 1. The display changes.

Go to Flag 1. Check Q05-343.

Refer to:

- GP 38 How to Check an Adaptive Sensor.
- P/J466, SPDH PWB.
- 301D +3.3V Distribution RAP.

Install new components as necessary:

- Side 2 reg sensor, PL 60.30 Item 8.
- SPDH PWB, PL 5.10 Item 5.

Clean the side 2 reg sensor mirror, Figure 1. Switch off, then switch on the machine, GP 14. If the fault persists, install new components:

Status Indicator RAPs

- Side 2 reg sensor, PL 60.30 Item 8.
- SPDH PWB. PL 5.10 Item 5.

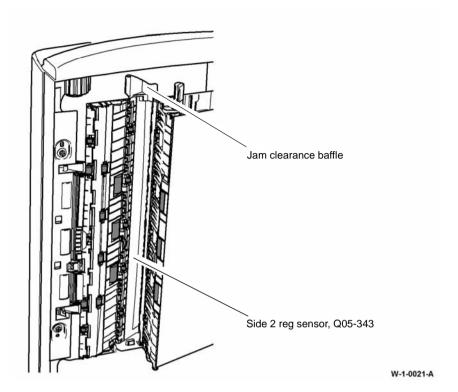
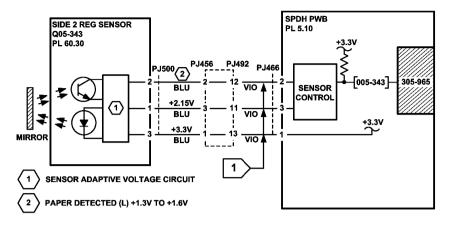
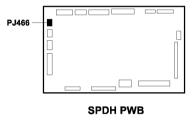


Figure 1 Component location





TW-1-0019-A

Figure 2 Circuit diagram

305A Document Size Sensors Failure RAP

Use this RAP when the SPDH is in the Auto Paper Select mode and fails to detect the correct size of paper.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Ensure that the machine is not positioned below a bright light.
- Remove all documents from the SPDH and input tray.
- Ensure that the sensors and the area around the sensors are clean.
- Ensure that the SPDH has Mod. TAG D-003 installed

Procedure

Refer to Figure 1. Enter dC330, code 005-315 to check the length sensor 1, Q05-315, PL 5.30 Item 5. Actuate Q05-315. **The display changes.**

Y N

Go to Flag 1. Check Q05-315.

Refer to:

- GP 11 How to Check a Sensor.
- P/J462, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Length sensor 1, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

Enter dC330, code 005-320 to check the length sensor 2, Q05-320, PL 5.30 Item 9. Actuate Q05-320. The display changes.

/ N

Go to Flag 2. Check Q05-320.

Refer to:

- GP 11 How to Check a Sensor.
- P/J462, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Length sensor 2, PL 5.30 Item 9.
- SPDH PWB, PL 5.10 Item 5.

Enter dC330, code 005-325 to check the width sensor 1, Q05-325, PL 5.30 Item 5. Actuate Q05-325. The display changes.

N

Go to Flag 3. Check Q05-325.

Refer to:

- GP 11 How to Check a Sensor.
- P/J463, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Width sensor 1, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

Enter dC330, code 005-326 to check the width sensor 2, Q05-326, PL 5.30 Item 5. Actuate Q05-326. The display changes.

Υ

Go to Flag 4. Check Q05-326.

Refer to:

- GP 11 How to Check a Sensor.
- P/J463, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Width sensor 2, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

Enter dC330, code 005-327 to check the width sensor 3, Q05-327, PL 5.30 Item 5. Actuate Q05-327. **The display changes.**

Y N

Go to Flag 5. Check Q05-327.

Refer to:

- GP 11 How to Check a Sensor.
- P/J463, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Width sensor 3, PL 5.30 Item 5.
- SPDH PWB, PL 5.10 Item 5.

Install new components as necessary:

- SPDH PWB. PL 5.10 Item 5.
- Tray lower assembly, PL 5.30 Item 3.
- SPDH input tray assembly, PL 5.30 Item 1.

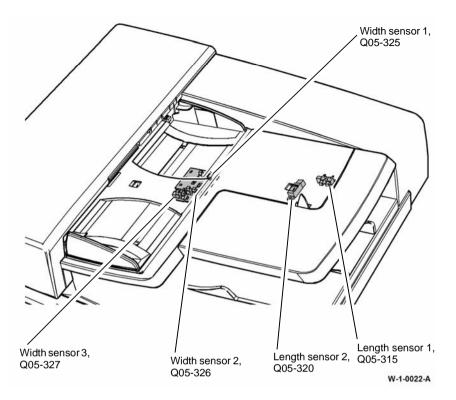
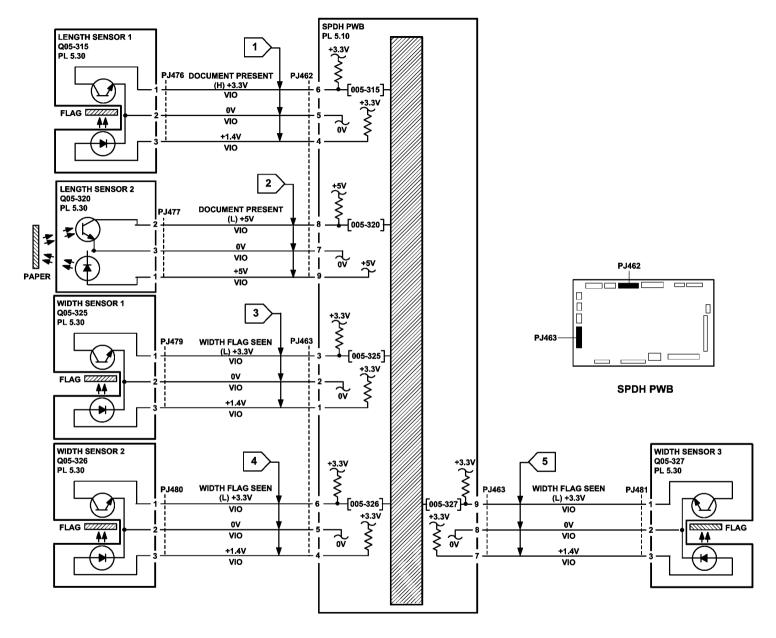


Figure 1 Component location



TW-1-0020-A

Figure 2 Circuit diagram

305B Last Sheet Out Sensor Failure RAP

Use this RAP if the message 'Due to a system error all scanned jobs have been deleted' is displayed during a scanning or copying job.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Remove all documents from the SPDH and input tray.
- Ensure that:
 - The machine is not positioned below a bright light.
 - The sensors and the area around the sensors are clean.
 - There is nothing placed on the top cover that could overhang the input tray.

Procedure

Enter dC330, code 005-308 to check the last sheet out sensor, Q05-308, PL 5.30 Item 9. Actuate Q05-308. The display changes.

/ I

Go to Flag 1. Check Q05-308.

Refer to:

- Figure 1.
- GP 11 How to Check a Sensor.
- P/J463, SPDH PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Last sheet out sensor, PL 5.30 Item 18.
- SPDH PWB, PL 5.10 Item 5.

Perform SCP 5 Final Actions.

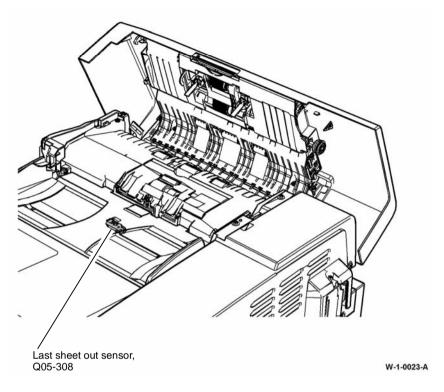
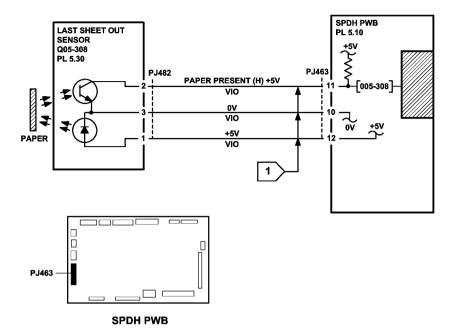


Figure 1 Component location



TW-1-0021-A

Figure 2 Circuit diagram

305C Document Present Failure RAP

Use this RAP when the SPDH behaves as follows:

- The SPDH detects a document when a document is not present in the input tray during the startup procedure.
- The SPDH detects a document when a document is not present in the input tray after a
 jam.

NOTE: Documents placed on the top cover of the SPDH can overhang the input tray and trigger the sensors. This can cause the SPDH to falsely detect a document, causing a feed error.

The SPDH does not detect a document when a document is present in the input tray.

Procedure

Check the doc present sensor, Q05-309. Go to 305-958-00 SPDH Lift Home Sensor Failure RAP.

305D Damaged Documents RAP

Use this RAP if the documents are damaged by the SPDH.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. ADJ 5.2 SPDH Height.
- 2. Check the input tray assembly for damage, PL 5.30 Item 1.
 - Ensure that the document width guides move freely, PL 5.30 Item 2.
 - Check the restack arm for damage, PL 5.30 Item 7.
- 3. Open the SPDH top cover, PL 5.10 Item 8.
 - Check the document path for damage.
 - Check the takeaway roll assembly, PL 5.17 Item 1 and idlers for damage and contamination, refer to ADJ 5.4.
 - Check the feed roll, PL 5.20 Item 6, nudger roll, PL 5.20 Item 7 and retard roll, PL 5.25 Item 3 for contamination or damage, refer to ADJ 5.4 SPDH Cleaning Procedure.
- 4. Raise the SPDH. Lower the jam clearance baffle assembly, Figure 1.
 - · Check for, and remove any pieces of paper.
 - Check the document path in the baffle area for damage.
 - Check the jam clearance baffle assembly for damage.
 - Check the mid scan roll, PL 5.17 Item 3 and the surrounding idlers, Figure 1 for contamination or damage. Ensure that the roll and idlers are clean and rotate freely, ADJ 5.4 SPDH Cleaning Procedure.
- 5. Check the CVT ramp assembly for contamination or damage.
- Check the exit roll assembly and idlers, PL 5.17 Item 2. Remove the input tray assembly, REP 5.4 to access the exit roll.
- 7. Remove the lower pre scan roller assembly, REP 5.17. Check the pre scan roll assembly, PL 5.17 Item 4 and the lower pre scan rollers for contamination or damage. Ensure that the roll and idlers are clean and rotate freely, ADJ 5.4 SPDH Cleaning Procedure.
- 8. Ensure that the customer's documents are within the specification, refer to GP 20.

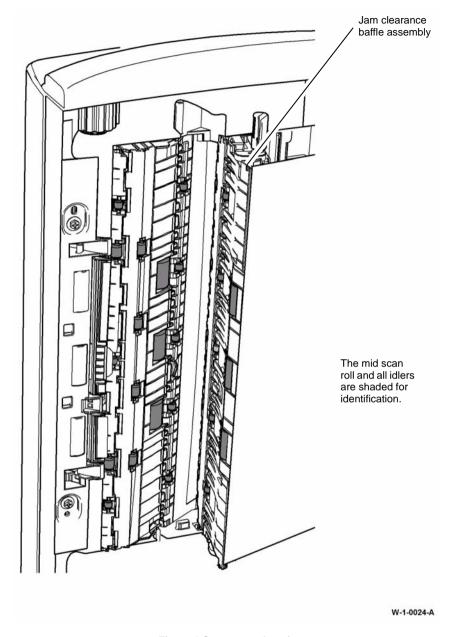


Figure 1 Component location

310-153-00, 310-163-00 Lead Edge Late to Post Fuser Sensor RAP

310-153-00 The lead edge of the paper failed to actuate the post fuser sensor within the correct time for a simplex sheet.

310-163-00 The lead edge of the paper failed to actuate the post fuser sensor within the correct time for a duplex sheet.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not touch the fuser while it is hot.

Check the items that follow:

- That the paper size information on the UI matches the paper used in the paper trays.
- The condition of the paper in all trays. Refer to IQ1 and GP 20.
- For paper in the fuser module, PL 10.8 Item 1.
- The fuser module, PL 10.8 Item 1 for damage.
- The fuser stripper fingers for contamination, Figure 1.
- The fuser settings in dC131. Refer to NVM locations 502-292 through to 502-296. Ensure
 that the values are set to the default level.
- The paper path for obstructions.
- That the left door latches correctly.
- For paper skew. Refer to IQ8 Skew RAP.
- For worn, damaged or missing photoreceptor stripper fingers. If necessary install a new print cartridge, PL 90.17 Item 9.

Procedure

NOTE: Ensure that the door interlock switches are cheated when checking +24V components.

Open the left door. Enter dC330 code 010-120, post fuser sensor, Q10-120, Figure 2. Use a piece of paper to actuate Q10-120. **The display changes.**

N

Go to Flag 1. Check Q10-120.

Refer to:

- GP 11. How to Check a Sensor.
- P/J761, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new post fuser sensor, PL 10.11 Item 7.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 010-020, fuser drive motor, MOT10-020. Observe the fuser roll and the pressure roll through the top of the fuser. **The fuser rolls turn.**

1

Go to Flag 2. Check MOT10-020.

Refer to:

- GP 10. How to Check a Motor.
- P/J761, IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new main drive module, PL 40.15 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 093-045, print cartridge motor, MOT93-045. Observe the photoreceptor. **The photoreceptor turns.**

N

Go to Flag 2. Check MOT93-045.

Refer to:

- GP 10, How to check a Motor.
- P/J761. IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Main drive module. PL 40.15 Item 1.
- Print cartridge, PL 90.17 Item 9.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 080-040, registration motor, MOT80-040. Observe the registration roll, PL 80.17 Item 5. The registration roll turns.

1

Go to Flag 3. Check MOT80-040.

Refer to:

- GP 10, How to Check a Motor.
- P/J762. IOT PWB.

If necessary, install a new registration motor, PL 40.15 Item 6. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

The jam occurs when feeding sheets from the bypass tray.

N

Refer to GP 7 and OF10 Intermittent Fault RAP. Check the components that follow:

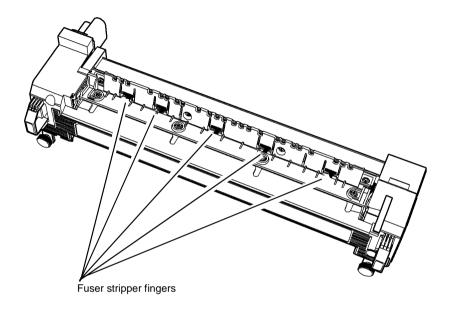
- Registration idler roll, PL 80.15 Item 4.
- Bias transfer roll, PL 80.15 Item 3.

В

- Registration roll, PL 80.17 Item 6.
- Registration drive gear, PL 80.17 Item 3.
- Track (DTS), PL 90.10 Item 6, from the detack saw to the HVPS.

If the fault persists, perform the 381A Paper Feed Retries RAP.

Perform the 381-155-00 Lead Edge Late to Registration Sensor from the Bypass Tray RAP.



W-1-1081-A

Figure 1 Component location

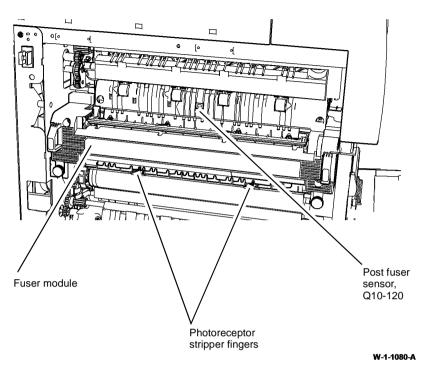


Figure 2 Component location

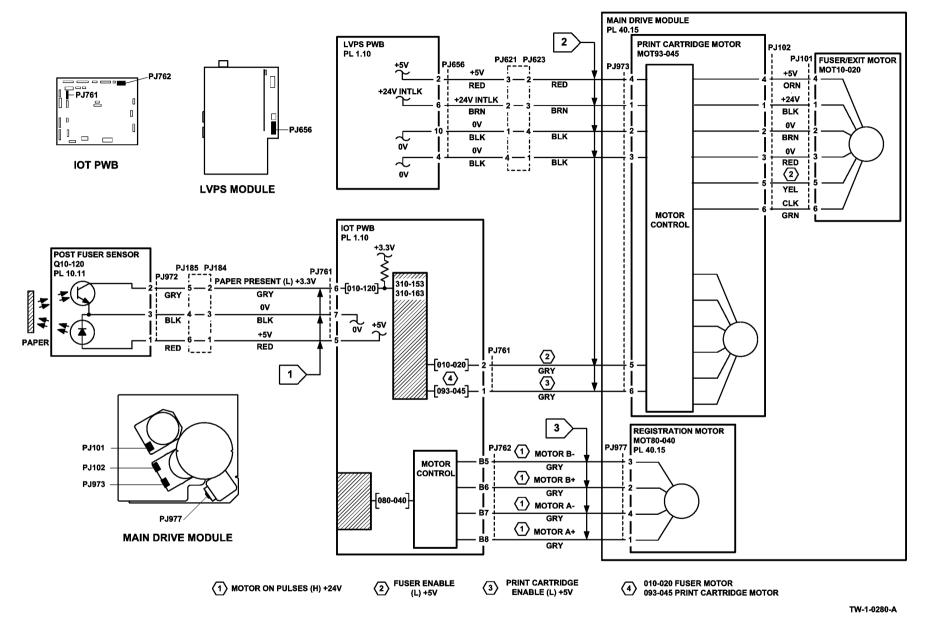


Figure 3 Circuit diagram

310-154-00, 310-164-00 Trail Edge Late from Post Fuser Sensor RAP

310-154-00 The trail edge of the paper failed to de-actuate the post fuser sensor within the correct time for a simplex sheet.

310-164-00 The trail edge of the paper failed to de-actuate the post fuser sensor within the correct time for a duplex sheet.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not touch the fuser while it is hot.

Check the items that follow:

- That the paper size information on the UI matches the paper used in the paper trays.
- The condition of the paper in all trays. Refer to IQ1 and GP 20.
- That the left door latches correctly.
- For paper in the fuser module, PL 10.8 Item 1.
- The fuser module, PL 10.8 Item 1 for damage.
- The fuser settings in dC131. Refer to NVM locations 502-292 through to 502-296. Ensure
 that the values are set to the default level.
- The fuser stripper fingers for contamination. Figure 1.
- The inverter assembly, PL 10.10 Item 1 for obstructions.
- The paper for skew. Refer to IQ8 Skew RAP.

Dependent on the machine configuration, check the components that follow:

- The horizontal transport, PL 10.15 Item 1 for obstructions.
- The horizontal transport top cover, PL 10.15 Item 11 latches correctly.
- The centre output tray, PL 28.10 Item 9 for obstructions.
- The diverter output guide, PL 10.10 Item 3, is correctly located.
- The centre output tray bail arm assembly, PL 10.11 Item 25, is correctly installed and undamaged.

Procedure

NOTE: Ensure that the door interlock switches are cheated when checking +24V components.

Open the left door. Enter dC330 code 010-120, post fuser sensor, Q10-120, Figure 2. Use a piece of paper to actuate Q10-120. **The display changes.**

N Go to Flag 1. Check Q10-120.

Refer to:

- GP 11. How to Check a Sensor.
- P/J761, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new post fuser sensor, PL 10.11 Item 7. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 010-020, fuser drive motor, MOT10-020. Observe the fuser roll and the pressure roll through the top of the fuser. **The fuser rolls turn.**

' 1

Go to Flag 2. Check MOT10-020.

Refer to:

- GP 10, How to Check a Motor.
- P/J761, IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Main drive module, PL 40.15 Item 1.
- Fuser module. PL 10.8 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 010-020, MOT10-020. Observe the exit roll and exit drive gears, Figure 2. The motor runs and drives the exit drive roll.

′ N

Check the components that follow:

- Exit drive assembly, PL 10.14 Item 1.
- Exit drive belts, PL 10.14 Item 2 and PL 10.14 Item 3.
- Inverter assembly, PL 10.10 Item 1.

Enter dC330 code 010-045, inverter gate solenoid, SOL10-045. Observe the solenoid and inverter gate, Figure 3. The solenoid energizes and the inverter gate is pulled down.

′ N

Go to Flag 3. Check SOL10-045.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J762. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new inverter gate solenoid, PL 10.13 Item 8. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Remove the centre exit cover, REP 28.1. Enter dC330 code 010-030, inverter motor forward, MOT10-030, PL 10.12 Item 8. The motor runs and turns the inverter drive roll.

N

Go to Flag 4. Check MOT10-030.

Refer to:

- GP 10, How to Check a Motor.
- P/J762, IOT PWB.

Install new components as necessary:

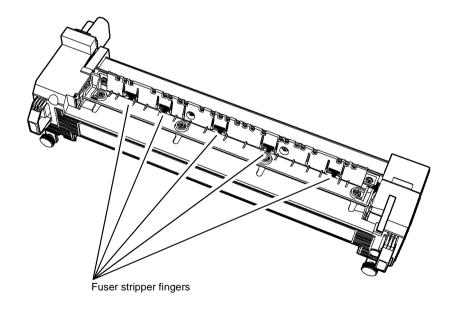
- Inverter motor, PL 10.11 Item 9 (centre output tray) or PL 10.12 Item 8 (horizontal transport).
- Drive belt, PL 10.11 Item 4 (centre output tray) or PL 10.12 Item 4 (horizontal transport).

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Refer to GP 7. Check the components that follow:

- Post fuser roll, PL 80.22 Item 12.
- Horizontal transport assembly, PL 10.15 Item 1.
- Inverter assembly, PL 10.10 Item 1.

If the fault persists, perform the 381A Paper Feed Retries RAP.



W-1-1090-A

Figure 1 Component location

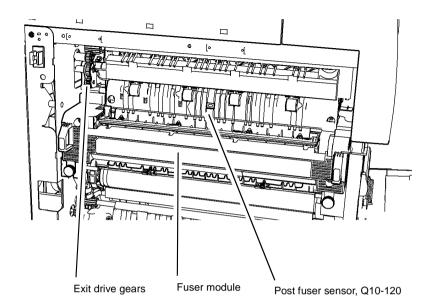
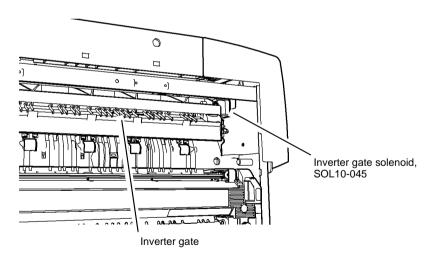
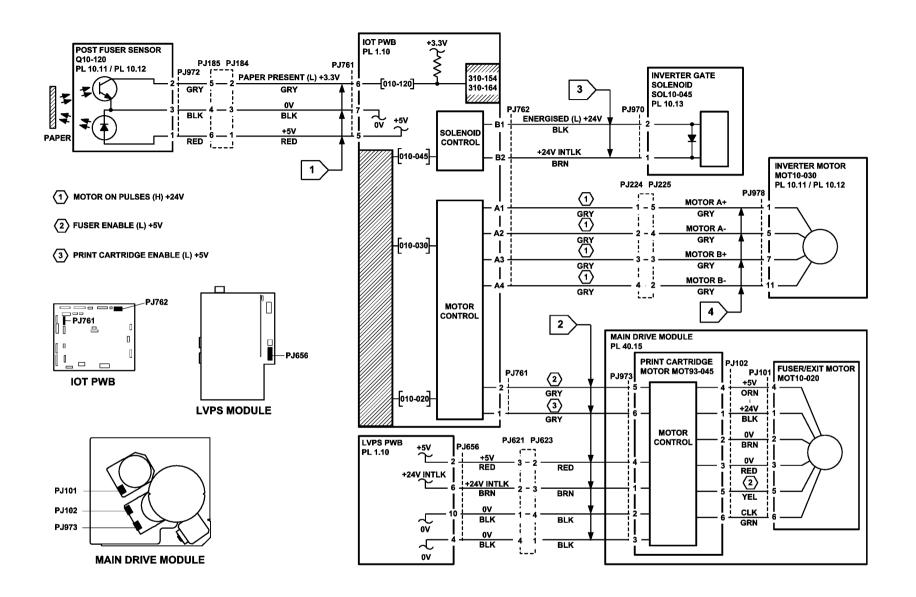


Figure 2 Component location



W-1-1092-A

Figure 3 Component location



TW-1-0281-A

Figure 4 Circuit diagram

310-170-00 Lead Edge Late to Horizontal Transport Entry Sensor RAP

310-170-00 The lead edge of the paper failed to actuate the horizontal transport entry sensor within the correct time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not touch the fuser while it is hot.

Check the items that follow:

- That the paper size information on the UI matches the paper used in the paper trays.
- The condition of the paper in all trays. Refer to IQ1 and GP 20.
- That the left door latches correctly.
- The horizontal transport, PL 10.15 Item 1 for obstructions.
- That the horizontal transport top cover, PL 10.15 Item 11 latches correctly.
- For paper in the fuser module, PL 10.8 Item 1.
- The fuser module, PL 10.8 Item 1 for damage.
- The fuser stripper fingers for contamination, Figure 1.
- The fuser settings in dC131. Refer to NVM locations 502-292 through to 502-296. Ensure
 that the values are set to the default level.
- The inverter assembly, PL 10.10 Item 1 for obstructions.
- For paper skew. Refer to IQ8 Skew RAP.

Procedure

NOTE: Ensure that the door interlock switches are cheated when checking +24V components.

Open the horizontal transport top cover. Enter dC330 code 010-041, horizontal transport entry sensor, Q10-041, PL 10.15 Item 8. Use a piece of paper to actuate Q10-041. **The display changes.**

N

Go to Flag 1. Check Q10-041.

Refer to:

- GP 11, How to Check a Sensor.
- P/J773. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new horizontal transport entry sensor, PL 10.15 Item 8.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

7

Open the left door. Enter dC330 code 010-020, fuser drive motor, MOT10-020. Observe the fuser roll and pressure roll through the top of the fuser. **The fuser rolls turn.**

.

Go to Flag 2. Check MOT10-020.

Refer to:

- GP 10. How to Check a Motor.
- P/J773, IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new main drive module, PL 40.15 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 010-020, MOT010-020. Observe the exit roll and exit drive gears, Figure 2. The motor runs and turns the exit drive roll.

' N

Check the components that follow:

- Exit drive assembly, PL 10.14 Item 1.
- Exit drive belts, PL 10.14 Item 2 and PL 10.14 Item 3.
- Inverter assembly, PL 10.10 Item 1.

Enter dC330 code 010-045, inverter gate solenoid, SOL10-045. Observe the solenoid and inverter gate. Figure 3. The solenoid energizes and the inverter gate is pulled down.

Υ

Go to Flag 3. Check SOL10-045.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J762. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

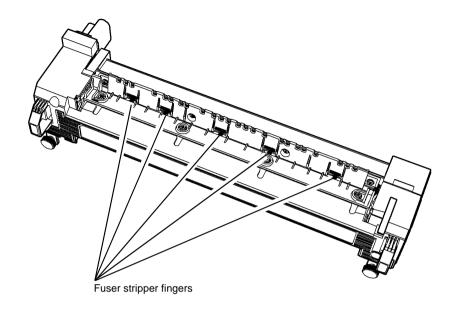
If necessary, install a new inverter gate solenoid, PL 10.13 Item 8.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Refer to GP 7. Check the components that follow:

- Post fuser roll, PL 80.22 Item 12.
- Inverter assembly, PL 10.10 Item 1.

If the fault persists, perform the 381A Paper Feed Retries RAP.



W-1-1093-A

Figure 1 Component location

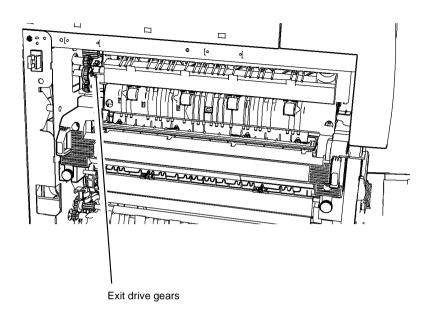
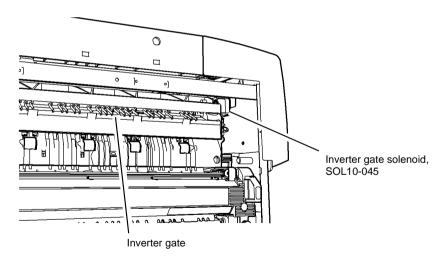
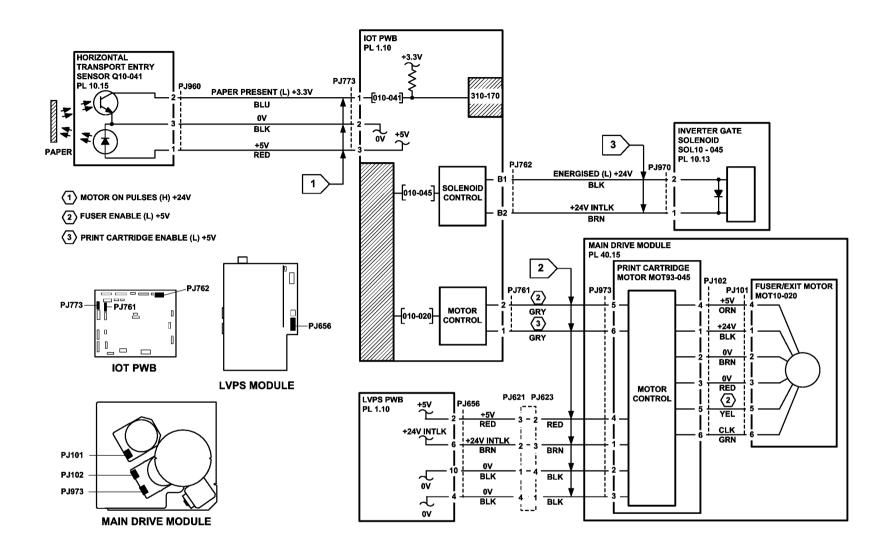


Figure 2 Component location



W-1-1094-A

Figure 3 Component location



TW-1-0282-A

Figure 4 Circuit diagram

310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP

310-171-00 The trail edge of the paper failed to de-actuate the horizontal transport entry sensor within the correct time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the items that follow:

- That the paper size information on the UI matches the paper used in the paper trays.
- The condition of the paper in all trays. Refer to IQ1 and GP 20.
- The horizontal transport, PL 10.15 Item 1 for obstructions.
- That the horizontal transport top cover, PL 10.15 Item 11 latches correctly.
- The inverter assembly, PL 10.10 Item 1 for obstructions.
- The paper for skew. Refer to IQ8 Skew RAP.

Procedure

NOTE: Ensure that the door interlock switches are cheated when checking +24V components.

Open the horizontal transport top cover. Enter dC330 code 010-041, horizontal transport entry sensor, Q10-041, PL 10.15 Item 8. Use a piece of paper to actuate Q10-041. **The display changes.**

Y N

Go to Flag 1. Check Q10-041.

Refer to:

- GP 11, How to Check a Sensor.
- P/J773, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new horizontal transport entry sensor, PL 10.15 Item 8. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 010-040, horizontal transport motor, MOT10-040, PL 10.16 Item 1. Open the horizontal transport top cover. Observe the horizontal transport rolls, PL 10.16 Item 4. The motor runs and the rolls turn.

N

Go to Flag 2. Check MOT10-041.

Refer to:

- GP 10. How to Check a Motor.
- P/J770, IOT PWB.

Check the components that follow:

- Horizontal transport belt, PL 10.16 Item 8.
- Horizontal transport rolls, PL 10.16 Item 4.

Transport roll pulleys, PL 10.16 Item 7.

If necessary, install a new horizontal transport motor, PL 10.16 Item 1. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Open the left door. Enter dC330 code 010-020, fuser drive motor, MOT10-020. Observe the exit roll and exit drive gears, Figure 1. **The gear and roll turns.**

′ N

Go to Flag 3. Check MOT10-020.

Refer to:

- GP 10. How to Check a Motor.
- P/J773. IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Check the components that follow:

- Exit roll. PL 10.12 Item 16.
- Exit drive gear. PL 10.12 Item 13.
- Exit drive assembly, PL 10.14 Item 1.
- Exit drive belts, PL 10.14 Item 2 and PL 10.14 Item 3.

If necessary, install a new main drive module, PL 40.15 Item 1.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Ensure the software on the machine is at SMP2 072.091.054.31606 or higher and a Mod.TAG 005 Horizontal transport motor grounding kit is installed, PL 31.14 Item 13.

If the fault persists, perform the 381A Paper Feed Retries RAP.

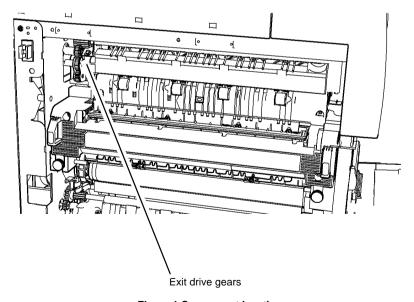
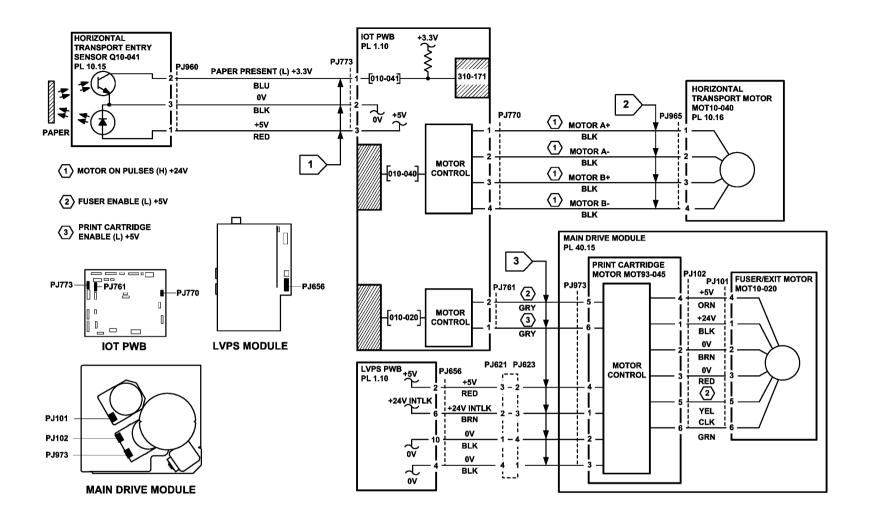


Figure 1 Component location



TW-1-0283-A

Figure 2 Circuit diagram

310-172-00 Unexpected Sheet in Horizontal Transport RAP

310-172-00 A stray sheet was detected in the horizontal transport after jam clearance.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Press the Machine Status button. Select Active Messages. Refer to OF4 Status Codes and Message RAP for the jam clearance procedure.
- Check for paper or paper fragments in the horizontal transport, PL 10.15 Item 1.
- Check for paper in the machine paper path at all the sensor locations.

Procedure

If the Initial Actions failed to fix the problem, switch off, then switch on the machine, GP 14. If a fault code is then displayed, go to the appropriate RAP.

310-201-00 Unexpected Sheet at Post Fuser Sensor RAP

310-201-00 A stray sheet was detected at the post fuser sensor after jam clearance.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Press the Machine Status button. Select Active Messages. Refer to OF4 Status Codes and Messages RAP for the jam clearance instruction.
- Check for paper or paper fragments in the locations that follow:
 - Fuser module, PL 10.8 Item 1.
 - Inverter assembly, PL 10.10 Item 1.
- Check for paper in the machine paper path at all the sensor locations.

Procedure

If the Initial Actions failed to fix the problem, switch off, then switch on the machine, GP 14. If a fault code is then displayed, go to the appropriate RAP.

310-320-00 Fuser Control Failure RAP

310-320-00 One or more fuser lamps is above the maximum temperature, or the temperature difference between any of the lamps is greater than 25 degrees C.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not touch the fuser while it is hot.

Check the items that follow:

- The fuser fans, PL 80.11 Item 9 in the left door are working correctly and that the direction of air flow is out of the machine.
- The fuser module connector, Figure 1 and fuser connector assembly, Figure 2 are not damaged.
- The fuser temperature settings in dC131. Refer to NVM locations 502-292 through to 502-296 and 502-313. Ensure that the values are set to the default level.

Procedure

Switch off, then switch on the machine, GP 14. The display shows 'Ready to Copy'.

Ν

Go to Flag 1. The voltage at the front and mid fuser temperature sensors should be 3.2 volts when the sensors are cold. In standby mode the voltage should be 0.72 to 0.96 volts.

Refer to:

- P/J764, IOT PWB.
- PJ100, Figure 2.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Before new components are installed, restore the NVM values to default.

As necessary, perform the actions that follow:

- Repair the harness between P/J764 and PJ100, REP 1.2.
- Install a new fuser connector, PL 10.8 Item 3.
- Perform the OF7 IOT PWB Diagnostics RAP.

If the fault persists, install a new fuser module, PL 10.8 Item 1.

Perform SCP 5 Final Actions.

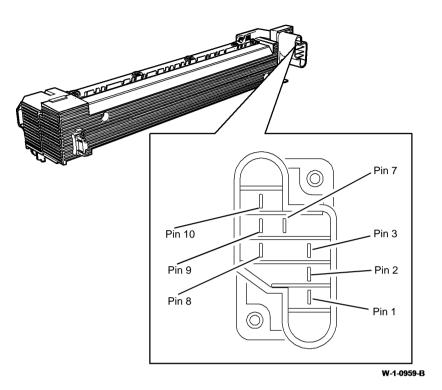


Figure 1 Component location

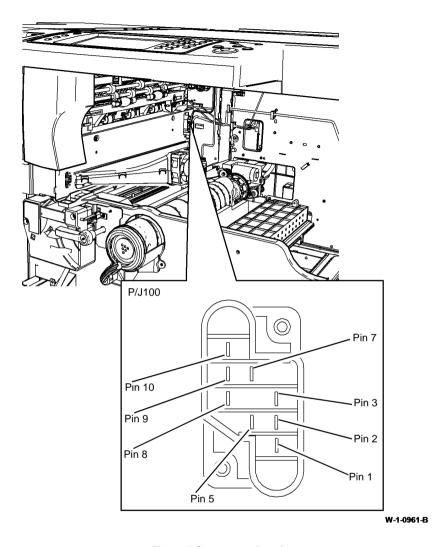


Figure 2 Component location

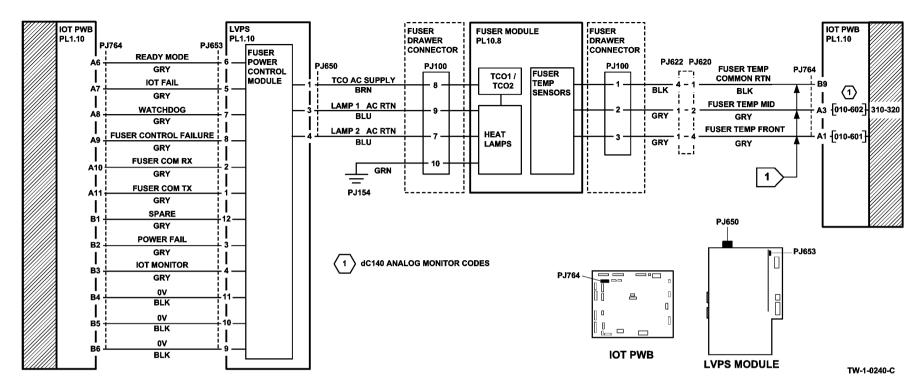


Figure 3 Circuit diagram

310-330-00, 310-340-00 Fuser Warm Up Failure RAP

310-330-00 The Initial fuser temperature rise was not achieved within 40 seconds from start of warm up mode.

310-340-00 The temperature reported by each thermistor failed to rise by 10 degrees C within 10 seconds from start of warm up mode when the starting temperature was less than 150 degrees C.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not touch the fuser while it is hot.

- Switch off, then switch on the machine, GP 14.
- Check the fuser settings in dC131. Refer to NVM locations 502-292 through to 502-296, 502-315, 502-352 and 302-353. Ensure that the values are set to their defaults.
- Check that the fuser module matches the machine's market region configuration. Perform the 310-399-00 Fuser CRUM Authorization Failure RAP.

Procedure

Switch off the machine, GP 14. Remove the fuser module. Check the fuser module connector, Figure 1, for continuity between the pins that follow:

- Pin 8 and pin 7.
- Pin 8 and pin 9.

There is continuity.

/ N

Install a new fuser module, PL 10.8 Item 1.

Install the fuser module. Disconnect P/J650, Figure 2. Go to Flag 2. Check for continuity between pin 1 and pin 3, and between pin 1 and pin 4 at the harness end. **There is continuity.**

N

Check the items that follow:

- Fuser connector assembly, Figure 3.
- P/J650.
- The harness between the fuser connector and P/J650.

If necessary repair the harness and connectors, REP 1.2.

Go to Flag 3. Check the wiring and connectors. Refer to:

P/J764. IOT PWB.

- P/J653. LVPS.
- 301B 0V Distribution RAP.

The wiring and connectors are good.

Υ

Repair the harness between P/J764 and P/J653, REP 1.2.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.

NOTE: It will take approximately 10 seconds after switch on before AC voltage is applied to the fuser. The voltage will be 100% of the ACL voltage when the machine is switched on from cold, and will pulse between 0% and 30% during standby.

Connect P/J650. Switch on the machine, GP 24. Go to Flag 2. Check for ACL at P/J650 between pin 1 and pin 3, and between pin 1 and pin 6. **ACL is measured.**

1

Perform the OF7 IOT PWB Diagnostics RAP. If the fault persists, install a new LVPS, PL 1.10 Item 1.

Go to Flag 1. With the fuser cold, check for +3.2V at P/J764 pin A1 and pin A3. +3.2V is available at both pins.

Go to Flag 1. Check the wiring and connectors.

NOTE: Do not insert the service meter probes into the PJ100 pins from the left door side. This may damage the pins. Access the pins from the wire side of the connector.

Refer to:

- P/J764, IOT PWB.
- PJ100, Figure 3.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

The wiring and connectors are good.

N

As necessary, perform the actions that follow:

- Repair the harness between P/J764 and PJ100, REP 1.2.
- Install a new fuser connector, PL 10.8 Item 3.

Perform the OF7 IOT PWB Diagnostics RAP. If the fault persists, install a new fuser module. PL 10.8 Item 1.

If the fault persists, install a new fuser module, PL 10.8 Item 1.

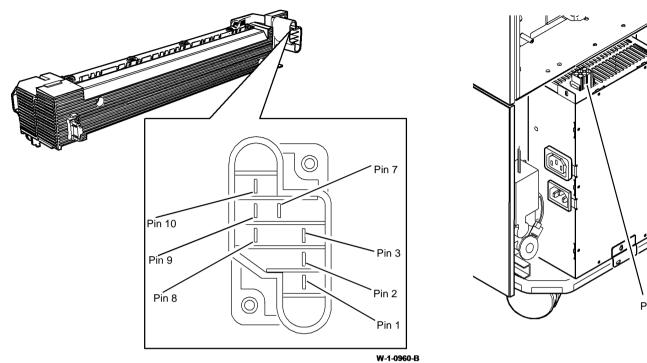


Figure 1 Component location

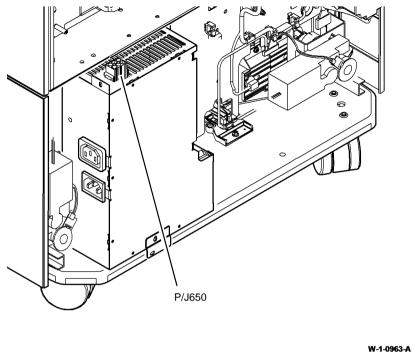


Figure 2 Component location

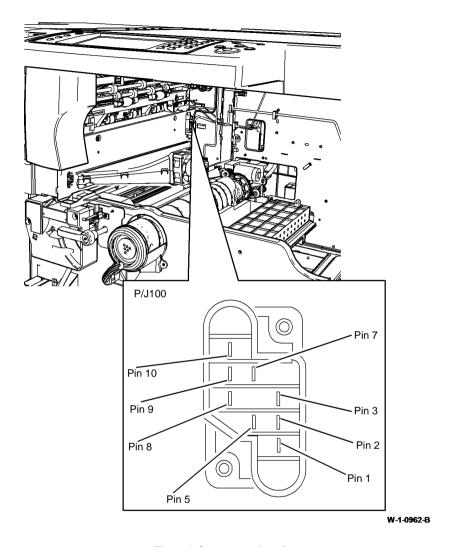


Figure 3 Component location

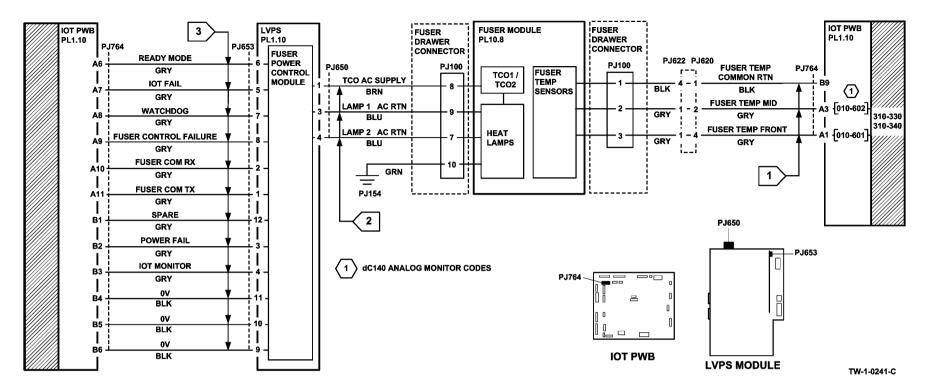


Figure 4 Circuit diagram

310-338-00 Horizontal Transport Interlock Open in Run RAP

310-338-00 The horizontal transport top cover was opened during machine operation.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330 code 010-042, horizontal transport interlock, Q10-042, Figure 1. Open and close the jam clearance cover. **The display changes.**

N

Go to Flag 1. Check Q10-042.

Refer to:

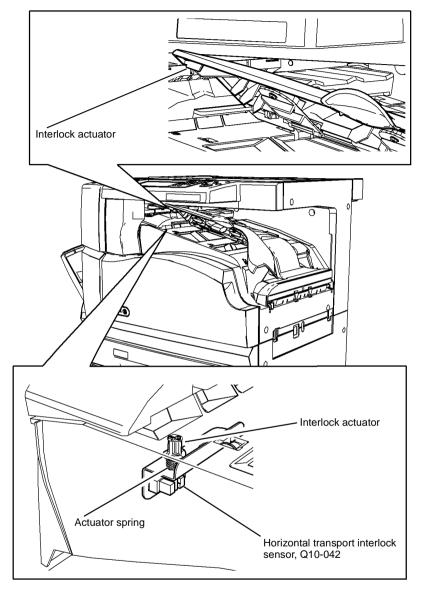
- GP 11, How to Check a Sensor.
- P/J773, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new horizontal transport interlock sensor, PL 10.15 Item 16. If the fault persists, perform OF7 IOT PWB Dlagnostics RAP.

Check that the jam clearance cover closes correctly. Refer to Figure 1. Check the items that follow:

- The interlock actuator on the jam clearance cover.
- The interlock actuator and spring.
- The jam clearance cover left hinge, PL 10.15 Item 4 and jam clearance cover right hinge, PL 10.15 Item 5.

If necessary, install a new horizontal transport assembly, PL 10.15 Item 1.



W-1-1115-A

Figure 1 Component location

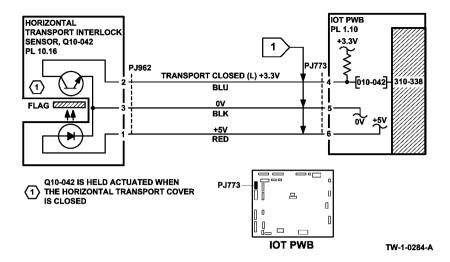


Figure 2 Circuit diagram

310-399-00 Fuser CRUM Authorization Failure RAP

310-399-00 The fuser CRUM failed the authorization check.

The authorization check is performed to ensure that the fuser installed in the system is compatible with the machine configuration: 50Hz or 60Hz.



Do not touch the fuser while it is hot.

Procedure

- Check that the machine market region is correct, dC134.
- Check that the service plan is correct, dC136.
- If necessary, install a new fuser module that matches the machine configuration, PL 10.8 Item 1.

310-400-00 Fuser CRUM Communication Fault RAP

310-400-00 The fuser CRUM communications have failed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

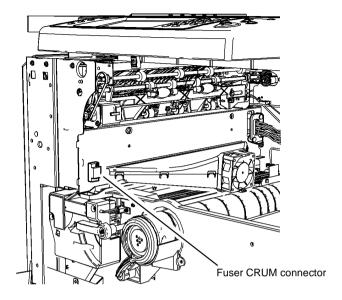
- Ensure that the fuser module, PL 10.8 Item 1 is correctly installed.
- Ensure that the print cartridge, PL 90.17 Item 9 is correctly installed.
- Switch off, then switch on the machine, GP 14.

Procedure



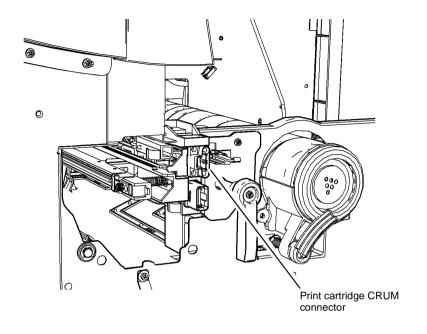
Remove the fuser module and print cartridge to prevent damage to the CRUMs when checking for continuity.

- 1. Ensure that P/J766 on the IOT PWB is correctly and securely connected.
- 2. Go to Flag 1. Check the harness, GP 7, and measure the voltages. Refer to:
 - 301B 0V Distribution RAP.
 - 301E +5V and +5VSB Distribution RAP.
- 3. Go to Flag 2. Check the items that follow:
 - The harness, GP 7. Repair as necessary, REP 1.2.
 - The fuser CRUM connector, Figure 1, for damage or contamination.
- 4. Go to Flag 3. Check the items that follow:
 - The harness, GP 7. Repair as necessary, REP 1.2.
 - The print cartridge CRUM connector, Figure 2, for damage or contamination.
- Perform the OF7 IOT PWB Diagnostics RAP.
- If the fault is intermittent, the cause may be due to electrical noise. Go to OF10 Intermittent Failure RAP.
- 7. Install new components as necessary:
 - Fuser module, PL 10.8 Item 1.
 - Print cartridge, PL 90.17 Item 9.



W-1-1074-A

Figure 1 Fuser CRUM connector location



PULSED SIGNALS CANNOT BE MEASURED WITH A SERVICE METER FUSER MODULE PJ 141 PL 10.8 FUSER CRUM HARNESS CONNECTS TO PRINT CARTRIDGE CRUM CONNECTOR (a) IN-LINE CONNECTOR BLK CRUM PJ766 F SDA GRY F_SCL $\langle 2 \rangle$ GRY +5V **IOT PWB** PRINT CARTRIDGE 3 IOT PWB PJ188 PJ187 PL 9.20 PJ513 PJ766 PL 1.10 οv BLK BLK CRUM οv BLK SCA SCA GRY 310-400 F SDA 392-400 GRY SCL GRY F SCL +5V GRY +5V RED RED $\langle 3 \rangle$

W-1-1075-A

TW1-0275-A

Figure 2 Print cartridge CRUM connector location

Figure 3 Circuit diagram

310-702-00 Offset Motor Fault RAP

310-702-00 The offset shuttle failed to return to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the inverter assembly, PL 10.10 Item 1, and centre output tray, PL 28.10 Item 9 for obstructions.

Procedure

Enter dC330 code 010-300, offset sensor, Q10-300. Move the offset shuttle slowly backwards and forwards, Figure 1. **The display changes.**

N

Go to Flag 1. Check Q10-300.

Refer to:

- GP 11. How to Check a Sensor.
- P/J761, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new offset sensor, PL 10.11 Item 8. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Remove the centre output tray, REP 28.1. Enter dC330 code 010-500, offset motor forward or code 010-501, offset motor reverse, MOT10-500, Figure 2. **The motor operates.**

/ 1

Go to Flag 2. Check MOT10-500.

Refer to:

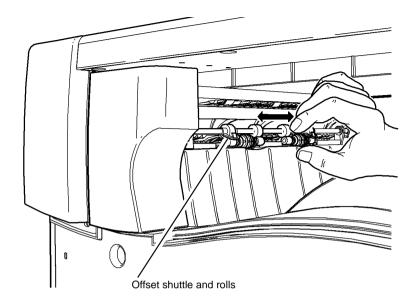
- GP 10. How to Check a Motor.
- P/J770, IOT PWB.

If necessary, install a new offset motor, PL 10.11 Item 14.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

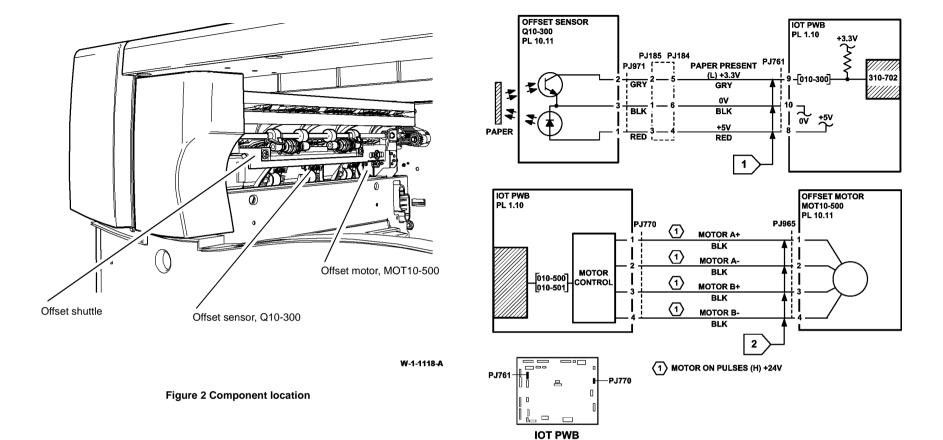
Refer to GP 7. Check the components that follow:

- Check for an incorrect mesh between the offset motor pinion, PL 10.11 Item 14 and the shuttle rack teeth, PL 10.11 Item 22. Loosen the two screws securing the offset motor bracket, PL 10.11 Item 15 to the exit guide housing, PL 10.11 Item 2. Move the motor bracket up as far as possible, then re-tighten the screws.
- Offset shuttle, PL 10.11 Item 22.
- Inverter assembly, PL 10.10 Item 1.



W-1-1117-A

Figure 1 Component location



TW-1-0286-A

Figure 3 Circuit diagram

310A Centre Output Tray Poor Stacking RAP

Use this RAP to identify the cause of poor stacking in the centre output tray.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Ensure that all paper or other copy stock being used is within the size and weight specifications. Refer to GP 20 Paper and Media Size Specifications.
- Ensure that the edge guides of all paper trays are adjusted correctly for the paper size and that the trays are fully closed.
- Ensure that the paper stack in each paper tray has been fanned.
- Turn over the paper stack in each paper tray.
- Use a new ream of paper, if available.
- Check the output copies/prints for curl. Refer to the IQ5 Print Damage RAP.
- Check the offset motor, PL 10.11 Item 14. Refer to 310-702-00 Offset Motor Fault RAP.
- Check the inverter assembly, PL 10.10 Item 1 for wear or damage.
- Check the bail arm assembly, PL 10.11 Item 25 for wear or damage.
- Check the bail arm assembly, PL 10.11 Item 25 is installed correctly with the Mylar towards the paper.

312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP

312-024-00-110 The paddle shaft failed to return to the home position within the required time.

312-025-00-110 The paddle shaft failed to leave the home position within the required time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Perform the checks that follow:

- That there is no paper or other obstructions in the vicinity of the paddle.
- The paddle home sensor bracket is holding the sensor in the correct position, i.e. the flag
 is in the middle of the sensor gap and the sensor does not touch any moving components.
- That the paper type is set correctly. If heavyweight paper is used but not set in the UI, the compiler capacity can be exceeded. Refer to 312J-110 Mis-Registration in Stapled Sets and Non-stapled Sets RAP.
- The position of the paddles. With the paddle shaft in the home position both sets of paddles must be within the output cover. If they are not, perform REP 12.12-110 Paddle Shaft Assembly. If any paddles are out of alignment to other paddles, install a new set of 4 paddles, PL 12.25 Item 3.
- The 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 code 012-238 paddle roll motor run, MOT12-238, Figure 1. **The paddle rotates correctly.**

' N

Go to Flag 2. Check MOT12-238.

Refer to:

- GP 10, How to Check a Motor.
- P/J310, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Paddle roll motor assembly, PL 12.25 Item 10.
- 2K LCSS PWB, PL 12.75 Item 1.

Add the code 012-186 paddle home sensor, Q12-186. The display cycles high/low.

N

Go to Flag 1. Check Q12-186.

Refer to:

- GP 11, How to Check a Sensor.
- P/J314, 2K LCSS PWB.
- Figure 1, Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Paddle roll home sensor, PL 12.25 Item 11.
- 2K LCSS PWB, PL 12.75 Item 1.

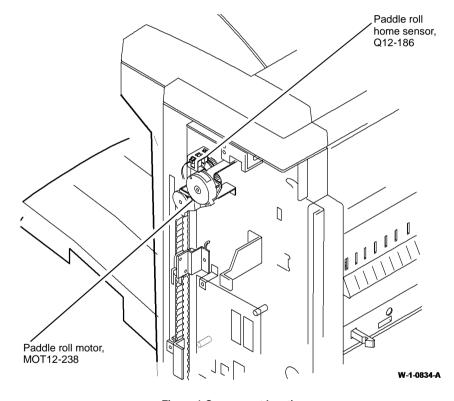
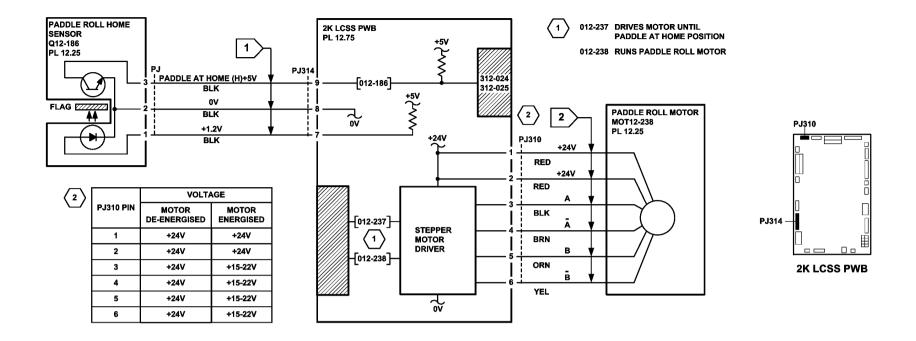


Figure 1 Component location



TW-1-0068-B

Figure 2 Circuit diagram

312-043-00-110, 312-046-00-110 Hole Punch Operation Failure RAP

312-043-00-110 The hole punch failed to leave the home position within the required time.

312-046-00-110 The hole punch failed to return to the home position within the required time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Check that the hole punch is present and correctly installed.
- Check that the punch has not jammed in the down position. This can occur with transparencies and labels.

NOTE: The home position of the punch unit is when the cut-out in the actuator is between the punch head home sensor jaws.

Procedure

Go to Flag 5. Check the link between P/J307 pins 10 and 11 on the 2K LCSS PWB. **The link** is good.

Y N

Repair the wiring or connector as necessary. Refer to REP 1.2.

Enter dC330 code 012-195 punch head present sensor, Q12-195, Figure 1. Actuate Q12-195. **The display changes.**

N

Go to Flag 2. Check Q12-195.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Punch head present sensor, PL 12.20 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-194 punch head home sensor, Q12-194. Actuate Q12-194. **The display changes.**

N

Go to Flag 1. Check Q12-194.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Punch head home sensor, PL 12.20 Item 1.
- 2K LCSS PWB. PL 12.75 Item 1.

Enter dC330 code 012-244, punch head run. The punch cycles.

- 1

Go to Flag 3. Check the hole punch motor, MOT12-243. Refer to:

- · GP 10, How to Check a Motor.
- P/J311, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Punch head motor assembly, PL 12.20 Item 2.
- 2K LCSS PWB, PL 12.75 Item 1.

NOTE: The chad bin collects the pieces of paper cut out by the hole punch. The chad bin level sensor will not operate if the tray is incorrectly installed. Ensure the chad bin is fully inserted and the lever engages in the slot.

Enter dC330 code 012-193, chad bin level sensor, Q12-193, Figure 2. Use a piece of paper to actuate Q12-193. **The display changes.**

' I

Go to Flag 4. Check Q12-193.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Chad bin level sensor, PL 12.20 Item 7.
- 2K LCSS PWB. PL 12.75 Item 1.

At a customer site with more that one type of Xerox device, it is possible that chad bins may have been inadvertently swapped. Refer to Figure 3, ensure that the correct type of chad bin is installed.

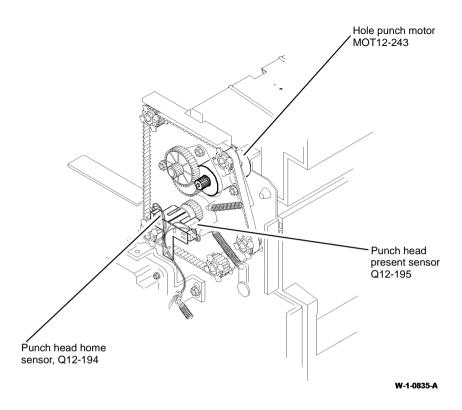


Figure 1 Component location

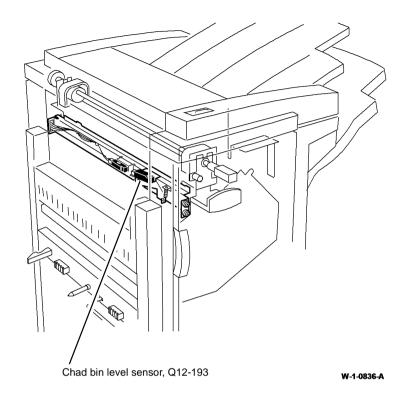


Figure 2 Component location

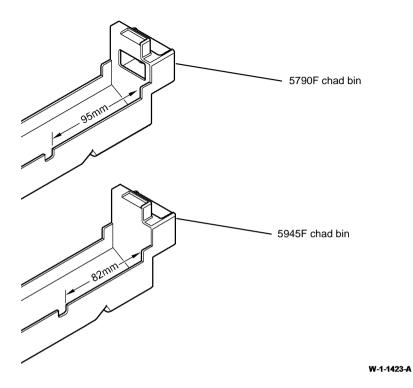
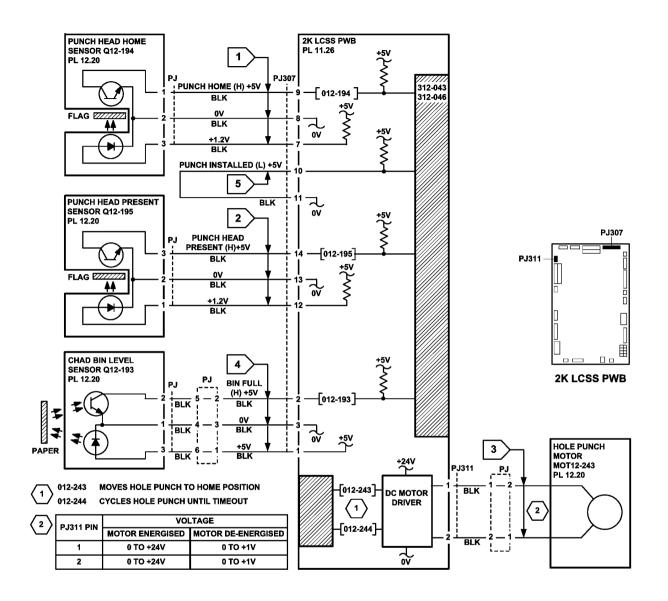


Figure 3 Chad bin differences



TW-1-0069-B

Figure 4 Circuit diagram

312-125-00-110, 312-126-00-110, 312-199-00-110 Paper Entry Jam RAP

312-125-00-110 The lead edge of the sheet was late to the finisher entry sensor.

312-126-00-110 The trail edge of the sheet was late from the finisher entry sensor.

312-199-00-110 The entry sensor detected paper at the start of a job or during a job without the finisher first receiving a paper at IOT exit sensor command.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.



Do not connect the output device power cord directly to the AC wall outlet. The output device cannot operate without the machine. The machine controls the distribution of electricity to the output device for correct power on and power off sequencing.

Check the items that follow:

- If the fault code is 312-199-00, switch off then switch on the machine, GP 14.
- 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- That the paper tray guides are set to the correct position for the size of paper in the tray.
- The jam clearance guide assembly, PL 12.40 Item 8 for damage or wear that could cause paper to jam.
- ADJ 12.2-110 Machine to 2K LCSS Alignment.
- Horizontal transport assembly, PL10.15/1, for obstructions.
- Feeding performance from a paper tray loaded with a new ream of paper.

Procedure

Lower the paper entry guide assembly, PL 12.40 Item 8, to access the entry sensor. Enter dC330 code 012-077. Actuate the entry sensor, Q12-077, Figure 1. **The display changes**.

1

Go to Flag 1. Check Q12-077.

Refer to:

- GP 11, How to Check a Sensor.
- P/J304, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Entry sensor, PL 12.70 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Check the operation of the horizontal transport assembly, PL 10.15 Item 1. Refer to 310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP.

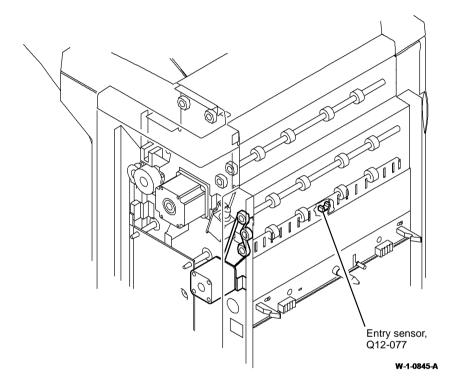
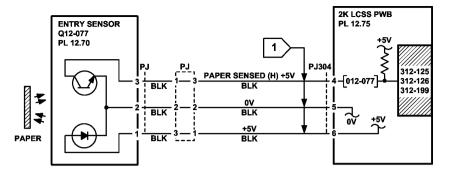
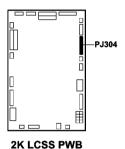


Figure 1 Component location





TW-1-0083-B

Figure 2 Circuit diagram

312-127-00-110 Sheet Late to Hole Punch RAP

312-127-00-110 The lead edge of the paper failed to actuate the punch sensor from the entry sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Perform the checks that follow:

- The 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Ensure the paper tray guides are set to the correct position for the size of paper in the tray.
- For a paper jam at the entrance to the 2K LCSS, check that there is no obstruction that would prevent a sheet from arriving in position for punching. Refer to the 312H-110 Copy Damage in the 2K LCSS RAP.
- The punch sensor 1 for chad debris, Figure 1.

Procedure

Enter dC330 code 012-078, punch sensor 1, Q12-078, Figure 1. Actuate Q12-078. **The display changes.**

N

Go to Flag 1. Check Q12-078.

Refer to:

- GP 11, How to Check a Sensor.
- P/J307, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Punch sensor 1, PL 12.20 Item 7.
- 2K LCSS PWB. PL 12.75 Item 1.

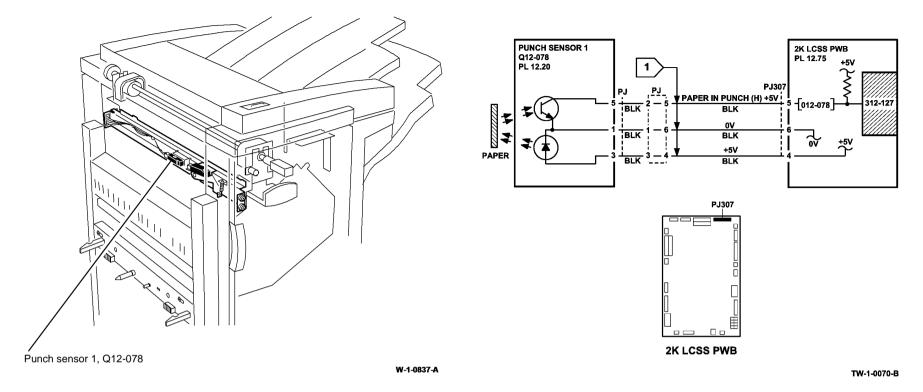


Figure 1 Component location

Figure 2 Circuit diagram

312-151-00-110, 312-152-00-110 Sheet Late to Bin 1 RAP

312-151-00-110 The compile exit sensor was not deactuated within a specified time.

312-152-00-110 The compile exit sensor was not actuated within a specified time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

NOTE: Paper is diverted to bin 0 when the diverter gate solenoid is energized. Paper is fed to bin 1 when the diverter gate solenoid is de-energized.

Perform the checks that follow:

- 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Ensure the paper tray guides are set to the correct position for the size of paper in all trays.
- The tensioner on the intermediate paper drive belt, PL 12.60 Item 4. Check that the tensioner is free to move and that the tensioner pulley is free to rotate. If necessary re-lubricate the tensioner arm and tensioner pulley. Refer to GP 18 Machine Lubrication.
- That the drive pulleys on both transport motor 1 and 2 are secure and do not slip on the motor shaft.
- All the transport drive belts are correctly fitted, are in a good condition and correctly tensioned. Refer to ADJ 12.4-110.
- All the transport rolls and idler pulleys are free to rotate.
- The diverter gate and linkage for free movement.
- A paper jam in the path to bin 1, to the compiler, and for poor stacking on bin 1.
- Ensure that the 2K LCSS is fully latched to the machine. Refer to REP 12.13-110.
- Torn paper fragments from a previous jam clearance action.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 code 012-224 to run the transport motor 2, MOT12-224, Figure 1. **The** motor runs.

N

Go to Flag 3. Check MOT12-224.

Refer to:

GP 10, How to check a motor.

- P/J309. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Transport motor 2, PL 12.60 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-225 to energize the exit diverter solenoid, SOL12-225. **The** solenoid energizes.

N

Go to Flag 4. Check SOL12-225.

Refer to:

- GP 12. How to Check a Solenoid or Clutch.
- P/J306, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Exit diverter solenoid, PL 12.60 Item 12.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-106, compiler exit sensor, Q12-106. Actuate Q12-106. **The display changes.**

/ N

Go to Flag 1. Check Q12-106.

Refer to:

- GP 11, How to Check a sensor.
- P/J313. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Compiler exit sensor, PL 12.65 Item 4.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330, code 012-223 to run the transport motor 1, MOT12-223. The motor runs.

ľ

Go to Flag 2. Check MOT12-223.

Refer to:

- GP 10, How to Check a Motor.
- P/J305, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Transport motor 1, PL 12.40 Item 2.
- 2K LCSS PWB, PL 12.75 Item 1.

If the fault persists, perform the procedures that follow:

- 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP
- 312H-110 Copy Damage in the 2K LCSS RAP
- 312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.

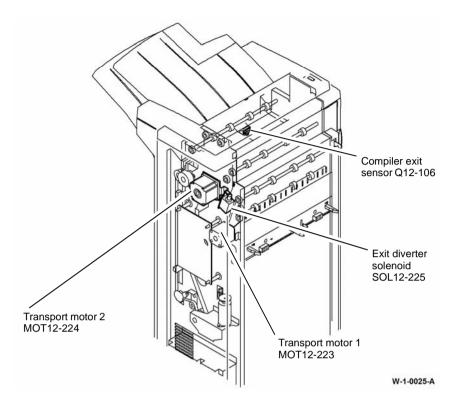
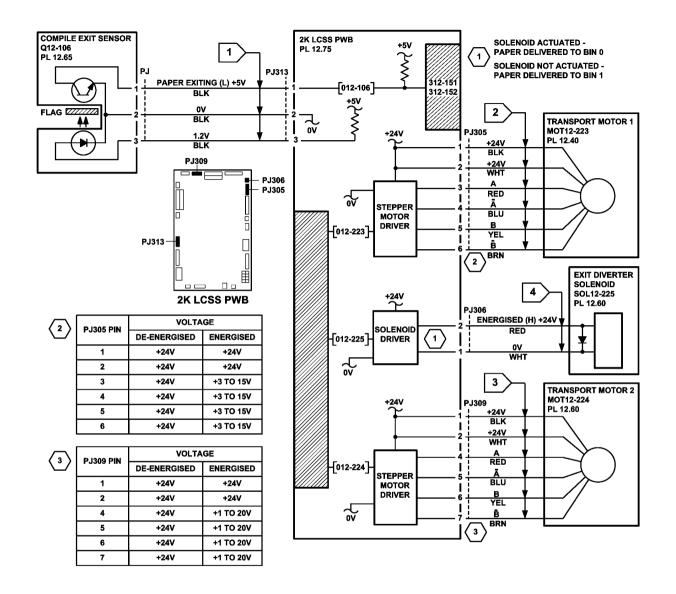


Figure 1 Component location



TW-1-0072-B

Figure 2 Circuit diagram

312-171-00-110, 312-172-00-110 Paper Exiting to Bin 0 RAP

312-171-00-110 The top exit sensor was not actuated within a specified time.

312-172-00-110 The top exit sensor is not deactuated within a specified time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Perform the checks that follow:

- 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Ensure the paper tray guides are set to the correct position for the size of paper in the tray
- The tensioner on the intermediate paper drive belt, PL 12.60 Item 4. Check that the tensioner is free to move and that the tensioner pulley is free to rotate. If necessary re-lubricate the tensioner arm and tensioner pulley. Refer to GP 18 Machine Lubrication.

NOTE: The tensioner arm and the tensioner pulley require different lubricants, refer to REP 12.3-110.

- The drive pulleys on both transport motor 1 and 2 are secure and do not slip on the motor shaft.
- All the transport drive belts are correctly fitted and are in a good condition.
- All the transport rolls and idler pulleys are free to rotate.
- The diverter gate and linkage for free movement.
- A paper jam in the path to bin 0.
- Torn paper fragments from a previous jam clearance action.
- A paper jam in the path to the top tray. If the jams occur shortly after install. Check the gap between the entry guide cover, PL 12.70 Item 5 and the paper guide PL 12.60 Item 10. If the gap is less than 1mm, adjust or install a new entry guide cover. Refer to the replacement procedure in REP 12.15-110.

NOTE: Paper is diverted to bin 0 when the diverter gate solenoid is energized. Paper is fed to bin 1 when the diverter gate solenoid is de-energized.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 code 012-224 to run transport motor 2, MOT12-224, Figure 1. The motor runs.

N

Go to Flag 3. Check MOT12-224.

Refer to:

- GP 10, How to Check a Motor.
- P/J309, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Transport motor 2, PL 12.60 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-225 to energize the exit diverter solenoid, SOL12-225. **The** solenoid energizes.

YN

Go to Flag 2. Check SOL12-225.

Refer to:

- GP 12. How to Check a Solenoid.
- P/J306, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Exit diverter solenoid. PL 12.60 Item 12.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-107, top tray exit sensor, Q12-107. Actuate Q12-107. **The display changes.**

N

Go to Flag 1.Check Q12-107.

Refer to:

- GP 11. How to Check a Sensor.
- P/J313, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Top tray exit sensor, PL 12.60 Item 11.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-223 to run the transport motor 1, MOT12-223. The motor runs.

N

Go to Flag 4. Check MOT12-223.

Refer to:

- GP 10, How to Check a Motor.
- P/J305. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Transport motor 1. PL 12.40 Item 2.
- 2K LCSS PWB, PL 12.75 Item 1.

If the fault persists, perform the procedures that follow:

- 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP
- 312H-110 Copy Damage in the 2K LCSS RAP

312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.

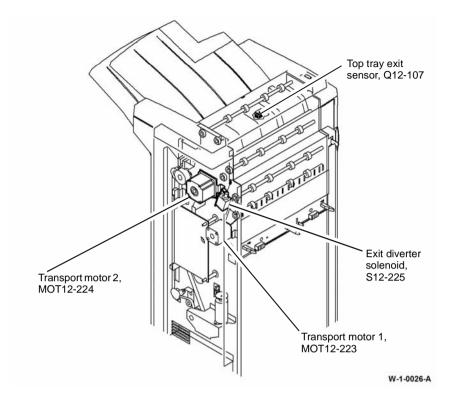
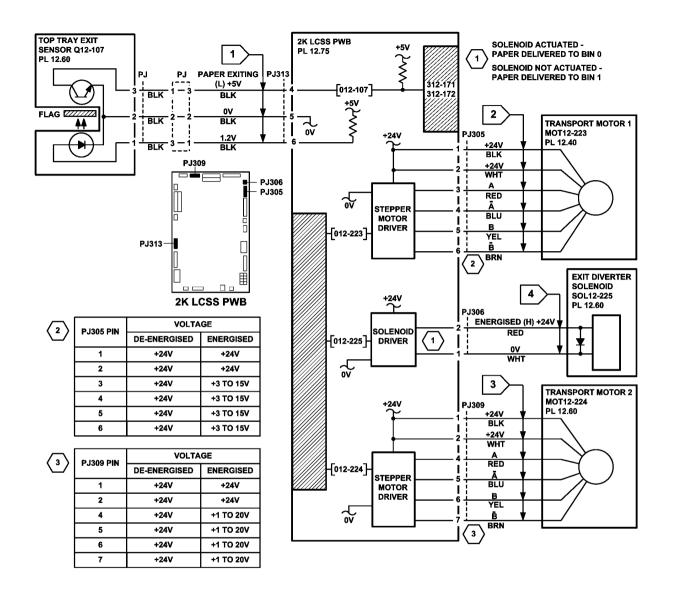


Figure 1 Component location



TW-1-0071-B

Figure 2 Circuit diagram

312-198-00-110 Finisher Stray Sheet Detected RAP

312-198-00-110 A stray sheet was detected in the finisher after jam clearance.

Initial Actions

Check the paper path in the 2K LCSS. Clear the paper path of any jams or paper debris.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Lower the paper entry guide assembly to access the entry sensor, Q12-077, Figure 1. Enter dC330, code 012-077. Actuate Q12-077. **The display changes.**

N

Go to Flag 1. Check Q12-077.

Refer to:

- GP 11. How to Check a Sensor.
- P/J304, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Repair or install new components as necessary:

- Entry sensor, PL 12.70 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330, code 012-078, punch sensor 1, Q12-078, Figure 2. Actuate Q12-078. **The display changes.**

N N

Go to Flag 2. Check Q12-078.

Refer to

- GP 11, How to Check a Sensor.
- P/J307, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Repair or install new components as necessary:

- Punch sensor 1, PL 12.330 Item 7.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330, code 012-107, top tray exit sensor, Q12-107, Figure 3. Actuate Q12-107. **The display changes.**

N

Go to Flag 3. Check Q12-107.

Refer to:

- GP 11, How to Check a Sensor.
- P/J313, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Repair or install new components as necessary:

- Top tray exit sensor, PL 12.60 Item 11.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330, code 012-106, compiler exit sensor, Q12-106, Figure 4. Actuate Q12-106. **The display changes.**

1

Go to Flag 4. Check Q12-106.

Refer to:

- GP 11, How to Check a Sensor.
- P/J313, 2K LCSS PWB.
- 312D-110 2k LCSS Power Distribution RAP.

Repair or install new components as necessary:

- Compiler exit sensor, PL 12.65 Item 4.
- 2K LCSS PWB, PL 12.75 Item 1.

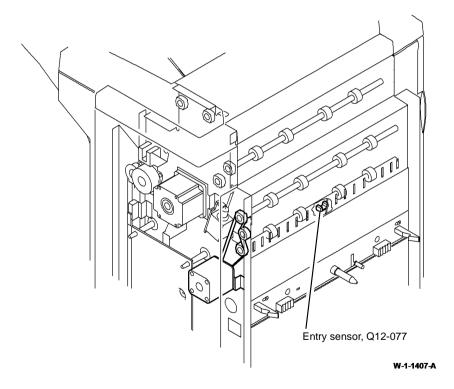


Figure 1 Component location

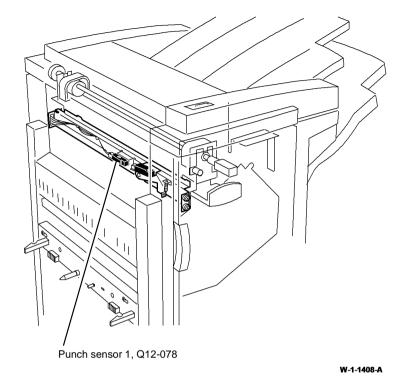


Figure 2 Component location

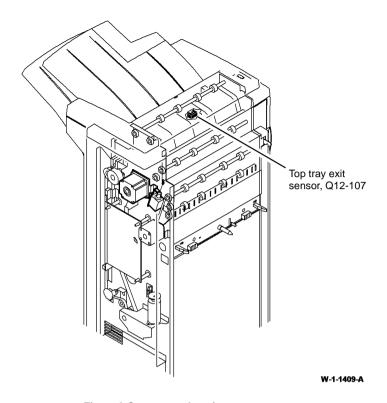


Figure 3 Component location

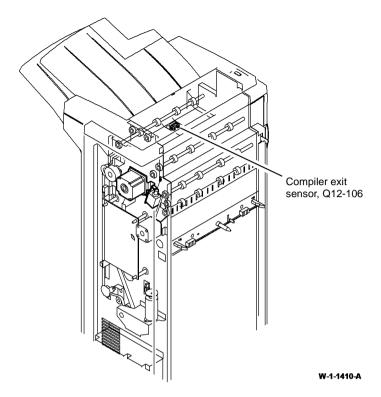
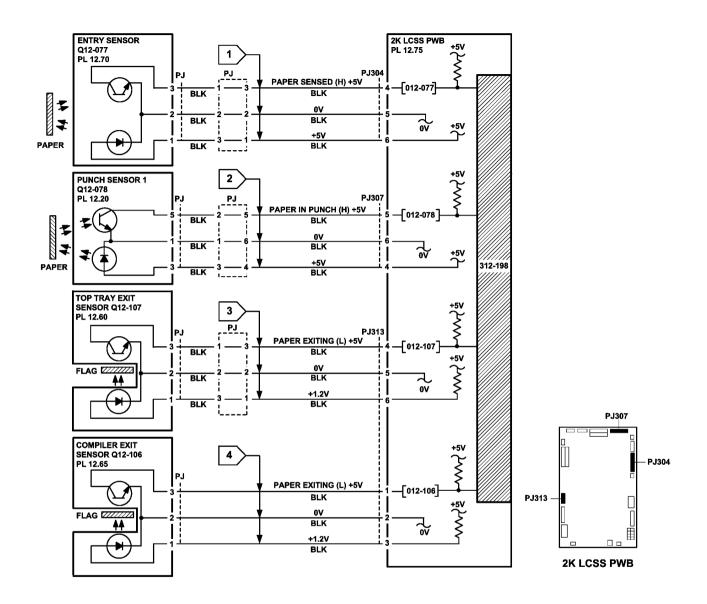


Figure 4 Component location



TW-1-0326-B

Figure 5 Circuit diagram

312-310-00-110, 312-312-00-110, 312-313-00-110 Interlocks RAP

312-310-00-110 The docking interlock was open during run mode.

312-312-00-110 The top cover interlock was open during run mode.

312-313-00-110 The front door interlock was open during run mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Perform the checks that follow:
 - The 2K LCSS is docked to the machine.
 - The 2K LCSS front door is closed.
 - The 2K LCSS top cover is closed.

Procedure

Go to Flag 1. Check for +24V on P/J302 pin 1. If the voltage is not present, perform the 312D-110 2K LCSS Power Distribution RAP.

Go to the appropriate procedure:

- 312-310-00-110 Docking Interlock Checkout.
- 312-312-00-110 Top Cover Interlock Checkout.
- 312-313-00-110 Front Door Interlock Checkout.

312-310-00-110 Docking Interlock Checkout

Procedure

Un-dock the 2K LCSS, refer to REP 12.13-110. Enter dC330 code 012-177, docking interlock switch, S12-177, Figure 1. Actuate S12-177. **The display changes.**

Ν

Go to Flag 1. Check S12-177.

Refer to:

GP 13, How to Check a Switch.

NOTE: The wiring harness passes underneath the docking interlock switch housing. If this harness is not correctly positioned, the switch can be mis-located, giving intermittent docking interlock problems.

P/J302, 2K LCSS PWB.

Install new components as necessary:

- Docking interlock switch, PL 12.15 Item 2.
- 2K LCSS PWB. PL 12.75 Item 1.

Check the interlock actuator on the machine is not damaged or missing, If necessary install a new docking actuator, PL 12.15 Item 7.

312-312-00-110 Top Cover Interlock Checkout

Procedure

Enter dC330 code 012-197, top cover interlock switch, S12-197, Figure 1. Actuate S12-197. **The display changes.**

Y N

Go to Flag 3. Check S12-197.

Refer to:

- · GP 13, How to Check a switch.
- P/J315, 2K LCSS PWB.

Install new components as necessary:

- Top cover interlock switch S12-197, PL 12.75 Item 6.
- 2K LCSS PWB, PL 12.75 Item 1.

Check the actuator on the inside of the exit cover, if necessary install a new exit cover, PL 12.10 Item 1.

312-313-00-110 Front Door Interlock Checkout

Procedure

Enter dC330 code 012-303, front door interlock switch, S12-303, Figure 1. Actuate S12-303. **The display changes.**

N

Go to Flag 2. Check S12-303.

Refer to:

- GP 13, How to Check a switch.
- P/J302, 2K LCSS PWB.

Install new components as necessary:

- Front door interlock switch, PL 12.75 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

Check the actuator on the inside of the 2K LCSS front door, if necessary install a new front door cover assembly, PL 12.10 Item 4.

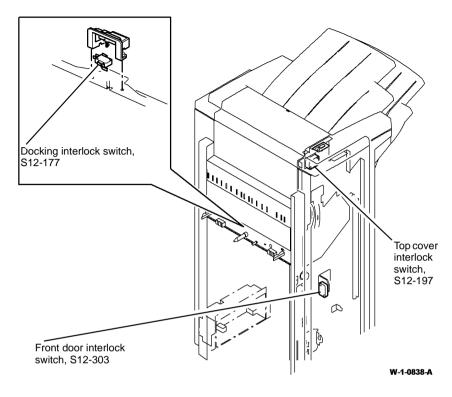


Figure 1 Component location

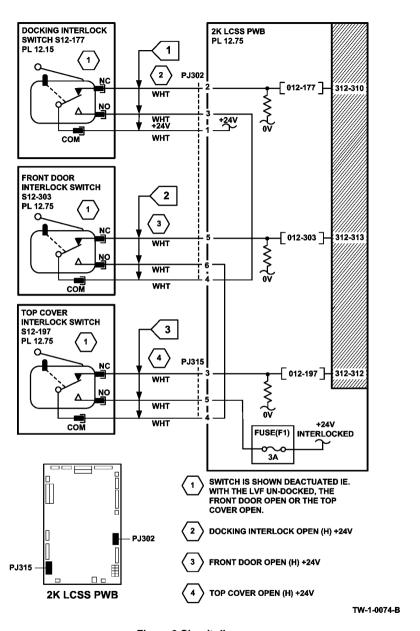


Figure 2 Circuit diagram

312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP

312-340-00-110 The ejector failed to return to the home position in the required time.

312-341-00-110 The ejector failed to move away from the home position in the required time.

312-342-00-110 The ejector failed to attain the compile/eject position in the required time.

NOTE: A cycle of operation for the ejector is to cycle from the home position to the out position and back to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check the operation of the ejector mechanism. If the operation is noisy or sluggish, perform the 2K LCSS and LVF BM Ejector Shafts and Slide Bearings procedure in ADJ 40.1 Machine Lubrication.
- Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Un-dock the 2K LCSS, REP 12.13-110, Check for any obstructions that would prevent the ejector from moving. Cheat the docking interlock switch.
- Check the finisher for binding and grinding noises, refer to OF1 Unusual Noise RAP.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 code 012-185, ejector out sensor Q12-185, Figure 1. Actuate Q12-185. **The display changes.**

N

Go to Flag 2. Check Q12-185.

Refer to:

- GP 11 How to Check a Sensor.
- P/J304. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Ejector out sensor, PL 12.50 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-184, ejector home sensor Q12-184. Actuate Q12-184. **The display changes.**

N

Go to Flag 1. Check Q12-184.

Refer to:

- GP 11 How to Check a Sensor.
- P/J304, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Ejector home sensor, PL 12.50 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-236, ejector motor cycle to cycle the ejector motor, MOT12-234. The ejector cycles between the out position and the home position.

Ň

Check that the large tie-wrap around the motor of the ejector assembly has not cut through the motor wires and caused a short circuit to the case of the motor. **The wiring is good.**

Υ

Cut the tie-wrap, then insulate the wires.

Go to Flag 3. Check MOT12-234.

Refer to:

- GP 10, How to Check a Motor.
- P/J303, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Ejector assembly, PL 12.50 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

The ejector cycles noisily, colliding with the end stops.

- 1

Check the stapler to ensure the staples are correctly formed. Mis-formed staples can cause the set to hang in the stapler causing ejector movement failures. **The staples are correctly formed.**

Y

Clear the staple head of any mis-formed staples, then check the operation of the stapler. If necessary, install a new staple head unit, PL 12.55 Item 5.

If the ejector is still not moving, install a new ejector assembly, PL 12.50 Item 1.

Enter dC330 code 012-096, ejector motor encoder sensor Q12-096. Slowly rotate the ejector motor encoder wheel. **The display changes.**

N

Go to Flag 4. Check Q12-096.

Refer to:

- GP 11 How to Check a Sensor.
- P/J304. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Α

В

Install new components as necessary:

- Ejector motor encoder sensor, PL 12.50 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

If necessary install a new 2K LCSS PWB, PL 12.75 Item 1.

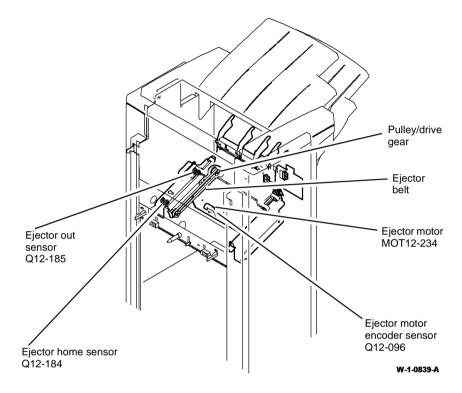
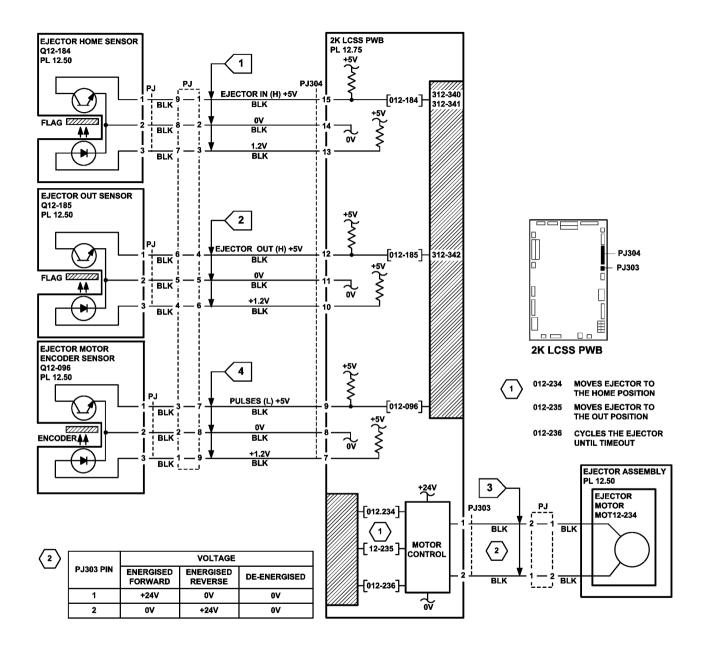


Figure 1 Component location



TW-1-0075-B

Figure 2 Circuit diagram

312-371-00-110, 312-372-00-110, 312-378-00-110 Staple **Head Unit Movement Failure RAP**

312-371-00-110 The staple head failed to leave home in the required time.

312-372-00-110 The staple head failed to return to home in the required time.

312-378-00-110 The staple head unit failed to index to the correct location within the required time.

NOTE: The home position is when the staple head unit is at the corner stapling position (fully to the front of the 2K LCSS and rotated through 45 degrees).

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Un-dock the 2K LCSS from the machine, REP 12.13-110. Move the ejector assembly fully to the right. Manually move the stapler unit along the full length of the track using the green thumb-wheel. Check the home sensor flag and the 2 dual position flags for damage, refer to NOTE. Check for damage or obstructions that would prevent the stapling unit from moving. If necessary, install a new staple head unit, PL 12.55 Item 5 or a new stapler traverse assembly, PL 12.55 Item 1.

NOTE: For dual position stapling, the SU1 front index sensor uses 2 flags.

Dock the 2K LCSS to the machine.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 code 012-235 to move the ejector assembly to the out position. Enter code 012-250, SU1 motor cycle to run the SU1 motor, MOT12-249, Figure 1. The stapling unit cycles back and forth along the track.

Ν

Go to Flag 3. Check MOT12-249.

Refer to:

- GP 10, How to Check a Motor.
- P/J308, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Stapler traverse assembly, PL 12.55 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-135, staple home sensor Q12-135. Actuate Q12-135 by rotating the green thumbwheel to move the stapler unit to and from the home position. The display changes.

Ν

Go to Flag 1. Check Q12-135.

Refer to:

- GP 11. How to check a sensor.
- P/J308. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Staple home sensor, PL 12.55 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-168, stapler index sensor, Q12-168. Actuate Q12-168 by rotating the green thumbwheel to move the stapler unit to and from the flag position (approximately 115mm (4.5 inches) from the front of the track). The display changes.

Go to Flag 2. Check Q12-168.

Refer to:

- GP 11 How to Check a Sensor.
- P/J308, 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Stapler index sensor, PL 12.55 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

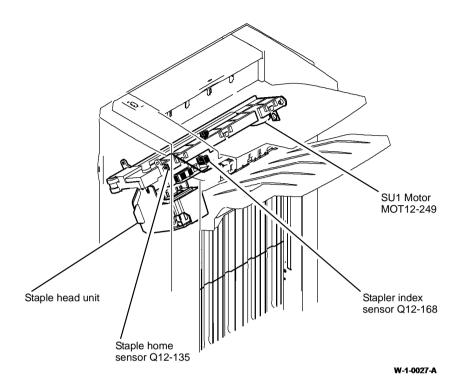
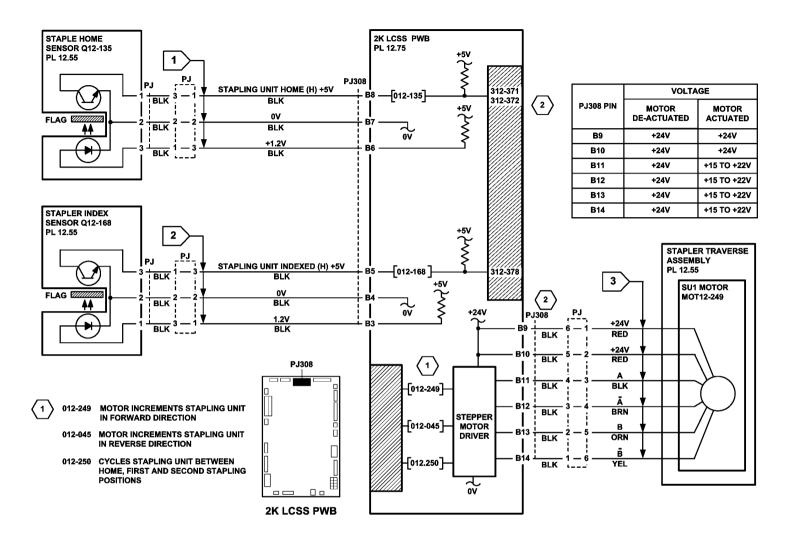


Figure 1 Component location



TW-1-0076-B

Figure 2 Circuit diagram

312-392-00-110, 312-393-00-110, 312-394-00-110 Front Tamper Move Failure RAP

312-392-00-110 The front tamper failed to move from the home position in the required time.

312-393-00-110 The front tamper failed to return to the home position in the required time.

312-394-00-110 The front tamper failed to return to the away home position in the required time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check for damage or obstructions that would prevent the tamper assembly from operating correctly. If necessary, install a new tamper assembly, PL 12.45 Item 1.
- Jams can be caused by removing prints from bin 1 before the machine has finished printing. If the tampers are touched while they are moving, they may stall and cause the machine to shut down. The resulting shut down can cause un-clearable jams in the finisher and the tray 3 and tray 4 to paper path interface.
- Jams can also be caused if the tray settings do not match the paper in the trays. Ensure
 the tray settings are correct.
- Check the condition and the tension of the front tamper drive belt. Tensioning is achieved by a spring on the motor, the motor should be free to move.
- If there is a large jam of paper above bin 1 that has obstructed the tampers, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.
 Perform the checks that follow:
 - The paper for defects that could degrade the tamping operation e.g. curl, paper condition, buckling or paper type. Refer to the IQ1 Image Quality Entry RAP.
 - The operation of the paddle roll, refer to the 312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP.
 - The operation of the bin 1 upper level sensor, refer to the 312-462-00-110 Bin 1 Movement Failure RAP.
 - 312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - The 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 codes 012-226, front tamper motor home and 012-228, front tamper motor move alternately. The front tamper moves between the home and away positions.

Υ

Go to Flag 2. Check the front tamper motor, MOT12-226, Figure 1. Refer to:

- GP 10 How to Check a Motor.
- P/J312. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Tamper assembly, PL 12.45 Item 1.
- 2K LCSS PWB. PL 12.75 Item 1.

Enter dC330 code 012-180, front tamper home sensor, Q12-180. Actuate Q12-180. **The display changes.**

N

Go to Flag 1. Check Q12-180.

Refer to:

- GP 11 How to Check a Sensor.
- P/J312. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Tamper assembly, PL 12.45 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

NOTE: The front tamper home sensor is bonded onto the tamper unit and is not replaceable. Therefore, failure of this sensor will require the replacement of the tamper assembly.

Enter dC330 code 012-182, front tamper away sensor, Q12-182. Actuate Q12-182. **The display changes.**

′ N

Go to Flag 3. Check Q12-182.

Refer to:

- GP 11, How to Check a Sensor.
- P/J314. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Front tamper away sensor, PL 12.45 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

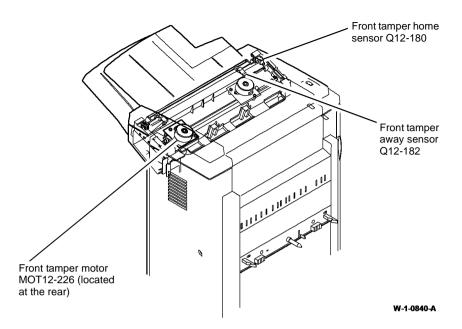
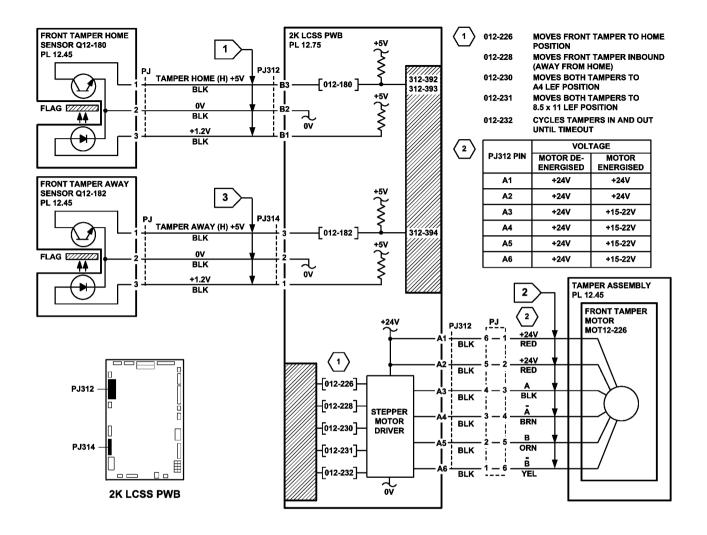


Figure 1 Component location



TW-1-0077-B

Figure 2 Circuit diagram

312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP

312-396-00-110 The rear tamper failed to move from the home position in the required time.

312-397-00-110 The rear tamper failed to return to the home position in the required time.

312-398-00-110 The rear tamper failed to move out of the away home position in the required time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Check for damage or obstructions that would prevent the tamper assembly from operating correctly. If necessary, install a new tamper assembly, PL 12.45 Item 1.
- Jams can be caused by removing prints from bin 1 before the machine has finished printing. If the tampers are touched while they are moving, they may stall and cause the machine to shutdown. The resulting shutdown can cause un-clearable jams in the finisher and the tray 3 and tray 4 to paper path interface.
- Jams can also be caused if the tray settings do not match the paper in the trays. Ensure
 the tray settings are correct.
- Check the condition of the rear tamper drive belt and that it is correctly tensioned. Tensioning is achieved by a spring on the motor, the motor should be free to move.
- If there is a large jam of paper above bin 1 that has obstructed the tampers, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.
 Perform the checks that follow:
 - The paper for defects that could degrade the tamping operation e.g. curl, paper condition, buckling or paper type. Refer to the IQ1 Image Quality Entry RAP.
 - The operation of the paddle roll. Refer to the 312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP.
 - The operation of the bin 1 upper level sensor. Refer to the 312-462-00-110 Bin 1 Movement Failure RAP.
 - 312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - The 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Enter dC330 codes 012-227, rear tamper motor home and 012-229, rear tamper motor move alternately. The rear tamper moves between the home and away positions.

′ N

Go to Flag 3. Check the rear tamper motor, MOT12-227, Figure 1. Refer to:

- GP 10. How to Check a Motor.
- P/J312. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP

Install new components as necessary:

- Tamper assembly, PL 12.45 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-181, rear tamper home sensor, Q12-181. Actuate Q12-181. **The display changes.**

Y N

Go to Flag 1. Check Q12-181.

Refer to:

- GP 11. How to Check a Sensor.
- P/J312. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Tamper assembly, PL 12.45 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

NOTE: The rear tamper home sensor is bonded onto the tamper unit and is not replaceable. Therefore, failure of this sensor will require the replacement of the tamper assembly.

Enter dC330 code 012-183, rear tamper away sensor, Q12-183. Actuate Q12-183. **The display changes.**

' N

Go to Flag 2. Check Q12-183.

Refer to:

- GP 11, How to Check a Sensor.
- P/J312. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Rear tamper away sensor, PL 12.45 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

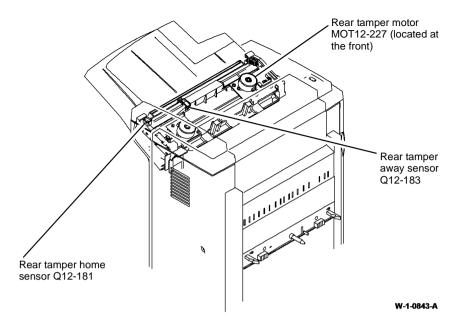
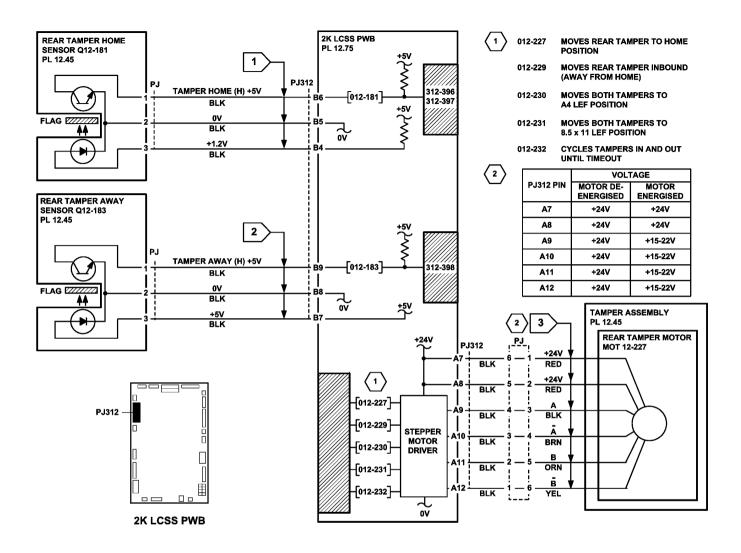


Figure 1 Component location



TW-1-0078-B

Figure 2 Circuit diagram

312-462-00-110 Bin 1 Movement Failure RAP

312-462-00-110 Bin 1 failed to leave the bin 1 upper level sensor during stacking or failed to initialize correctly.

NOTE: The home position of bin 1 is when the bin is just lower than the bin 1 upper level sensor. See the final actions at the end of the procedure.

Two sensors and 2 switches monitor the level of paper in bin 1 and the position of the tray:

- The bin 1 upper level sensor, detects the top of the paper stack in bin 1, or the empty bin 1, PL 12.35 Item 3.
- The bin 1 90% full sensor, detects when the tray has descended to a position where the tray is 90% full, PL 12.30 Item 5.
- Bin 1 upper limit switch, prevents over travel, PL 12.30 Item 3.
- Bin 1 lower limit switch, prevents over travel, PL 12.35 Item 1.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Perform the steps that follow:

- Check for a physical obstruction that would prevent bin 1 from moving, such as an item of furniture.
- Check that bin 1 is level front to back. If necessary, perform ADJ 12.1-110 2K LCSS Bin 1 Level
- Check the 2K LCSS PWB DIP switch settings. Refer to the 2K LCSS PWB DIP Switch Settings RAP.
- Refer to the 312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
- If there is a large jam of paper above bin 1, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.

Perform the relevant check:

- If paper is overflowing the tray when it is at the lower limit, check the tray 90% full sensor.
- If paper cannot be fed to bin 1 when it is at the highest position, check the bin 1 upper level sensor.
- Check the front and rear bin 1 drive belts. If necessary install new components, PL 12.30 Item 1.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Remove the 2K LCSS rear cover. Enter dC330 code 012-163, bin 1 motor encoder sensor Q12-163, PL 12.30 Item 11. Slowly rotate the encoder disk by hand. **The display changes.**

' N

Go to Flag 2. Check Q12-163.

Refer to:

- GP 11 How to Check a Sensor.
- P/J304. 2K LCSS PWB.
- Figure 2, Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Bin 1 motor encoder sensor Q12-163, PL 12.30 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-242. Bin 1 cycles down and up.

1

Go to Flag 1. Check the bin 1 elevator motor, MOT12-241, PL 12.30 Item 8. Refer to:

- GP 10 How to Check a Motor.
- P/J318, 2K LCSS PWB.
- Figure 2, Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Bin 1 elevator motor. PL 12.30 Item 8.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-188, actuate the bin 1 upper level sensor, Q12-188, PL 12.35 Item 3. **The display changes.**

N

Go to Flag 3. Check Q12-188.

Refer to:

- GP 11 How to Check a Sensor.
- P/J314, 2K LCSS PWB.
- Figure 1, Component location.
- 312D-110 2K LCSS Power Distribution RAP.
- REP 12.13-110 2K LCSS Un-docking.

Install new components as necessary:

- Bin 1 upper level sensor, PL 12.35 Item 3.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-190, actuate the bin 1 upper limit switch, S12-190, PL 12.30 Item 3. **The display changes.**

′ N

Go to Flag 4. Check S12-190.

Status Indicator RAPs **312-462-00-110**

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Refer to:

- GP 13 How to Check a Switch.
- P/J315, 2K LCSS PWB.
- Figure 2. Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Bin 1 upper limit switch, PL 12.30 Item 3.
- 2K LCSS PWB. PL 12.75 Item 1.

Enter dC330 code 012-191, actuate the bin 1 lower limit switch, S12-191, PL 12.35 Item 1. **The display changes.**

N

Go to Flag 5. Check S12-191.

Refer to:

- GP 13 How to Check a Switch.
- P/J317, 2K LCSS PWB.
- Figure 2, Component location.
- 312D-110 2K LCSS Power Generation RAP.
- REP 12.13-110 2K LCSS Un-docking.

Install new components as necessary:

- Bin 1 lower limit switch, PL 12.35 Item 1.
- 2K LCSS PWB, PL 12.75 Item 1.

Enter dC330 code 012-187. Actuate the bin 1 90% full sensor, Q12-187, PL 12.30 Item 5. **The display changes.**

N

Go to Flag 6. Check Q12-187.

Refer to:

- GP 11 How to Check a Sensor.
- P/J316, 2K LCSS PWB.
- Figure 2, Component location.
- 312D-110, 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Bin 1 90% full sensor, PL 12.30 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

As final actions, check the sequence of operation that follows:

- Paper is delivered to the tray until the bin 1 upper level sensor, Q12-188 is actuated.
- The bin 1 elevator motor MOT12-241 lowers the tray until the bin 1 upper level sensor, Q12-188 is de-actuated.
- The Bin 1 elevator motor raises the tray until the top of the paper stack actuates the Bin 1
 upper level sensor, then the Bin 1 elevator motor lowers the tray to continue the cycle.
- When the tray is emptied, the tray returns to the home position. The tray is elevated until
 the bin 1 upper level sensor, Q12-188 is made. The tray is then lowered until the bin 1
 upper level sensor, Q12-188 is just cleared. In the home position the bin 1 upper limit
 switch, S12-190 is actuated.

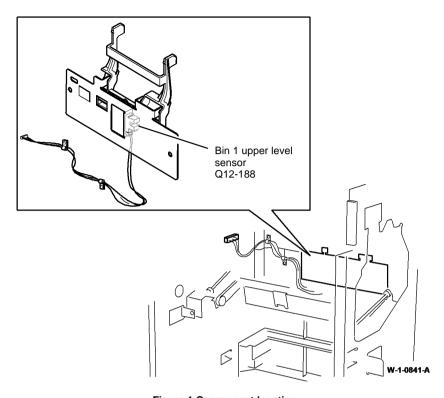


Figure 1 Component location

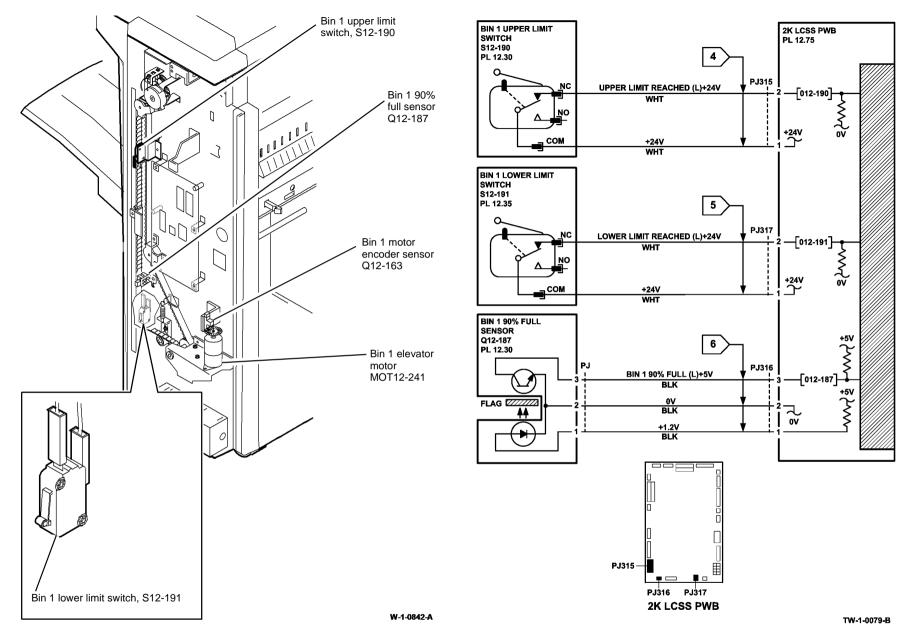


Figure 2 Component location

Figure 3 Circuit diagram

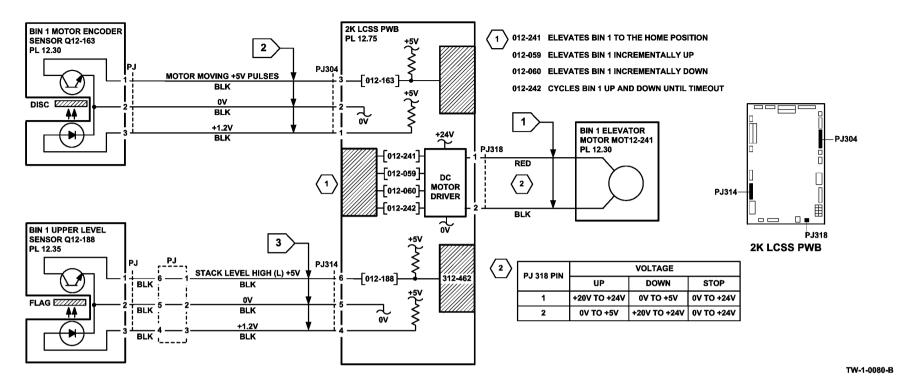


Figure 4 Circuit diagram

312-492-00-110 Finisher Communication Failure

312-492-00-110 CDI communications failure with the 2K LCSS.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Figure 2, ensure the finisher power cord is connected to P/J652 on the LVPS.
- Switch off, then switch on the machine, GP 14.
- Check the fault history for 303-XXX fault codes. If the 303-XXX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 intermittent Failure
- Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- Perform REP 12.13-110 2K LCSS Un-docking. Check that the docking actuator, PL 12.15 Item 7 is correctly installed.

Procedure



CAUTION

Do not connect the output device power cord directly to the AC wall outlet. The output device cannot operate without the machine. The machine controls the distribution of electricity to the output device for correct power on and power off sequencing.

Remove Fuse F1 from the 2K LCSS PWB. Check the fuse. The fuse is good.

Install a new 2K LCSS PWB, PL 12.75 Item 1.

Re-install Fuse F1. Observe the software heartbeat LED (LED 1) on the 2K LCSS PWB, Figure 1. LED 1 is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).

If LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off), this indicates that the finisher software is corrupt. Reload the finisher software, GP 4. If necessary install a new 2K LCSS PWB. PL 12.75 Item 1.

Go to Flag 1, Flag 2 and Flag 3. Check the wiring and connectors between P/J772, P/J996 and P/J301. The wiring and connectors are good.

Ν

Repair the wiring or connectors, REP 1.2.

Perform the steps that follow:

- Go to the 312D-110 2K LCSS Power Distribution RAP. Check the +5V and +24V supply from the power supply module to the 2K LCSS PWB. Ensure that the voltages are steady. Ensure that there is good ground continuity between the power supply module, PL 12.75 Item 2 and the 2K LCSS frame. Install new components as necessary:
 - Power supply module. PL 12.75 Item 2.
 - 2K LCSS PWB, PL 12.75 Item 1.
- Reload the software using the forced AltBoot procedure, GP 4.
- The OF7 IOT PWB Diagnostics RAP.

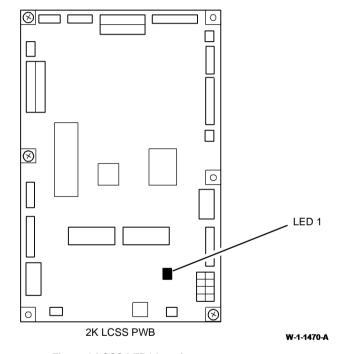


Figure 1 LCSS LED1 location

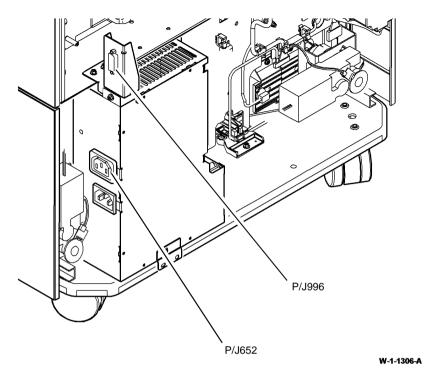
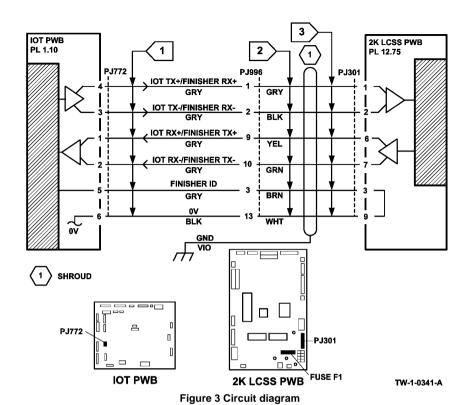


Figure 2 PJ966 and PJ652 locations



312A-110 Chad Bin Present and Bin Full RAP

Use this RAP when there is a false indication of a missing or full chad bin.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check that the chad bin is fully inserted.
- Check that the actuator for the chad bin level sensor engages in the slot of the chad bin.
- Check that the sensor hole in the side of the chad bin is clear of obstructions.

Procedure

Enter dC330 code 012-193, chad bin level sensor, Q12-193, Figure 1. Use a strip of paper to actuate the sensor. **The display changes.**

/ N

Go to Flag 1. Check Q12-193.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307, 2K LCSS PWB.
- Figure 1, Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Chad bin level sensor, PL 12.20 Item 7.
- 2K LCSS PWB, PL 12.75 Item 1.

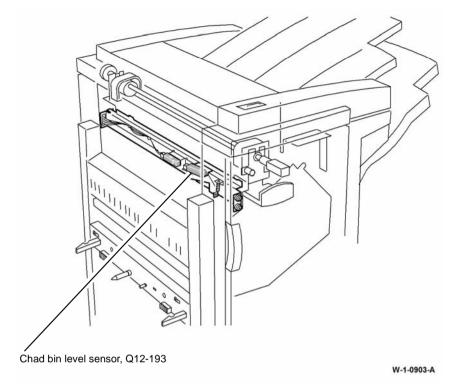
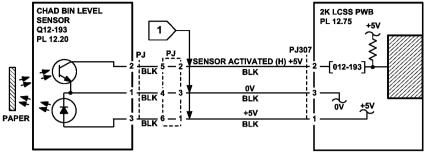


Figure 1 Component location



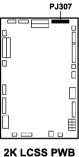


Figure 2 Circuit diagram

312B-110 Bin 1 Overload RAP

Use this RAP to resolve a fault with the bin 1 90% full sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Enter dC330 code 012-187, bin 1 90% full sensor Q12-187, PL 12.30 Item 5. Actuate the sensor. The display changes.

N

TW-1-0208-B

Go to Flag 1. Check Q12-187.

Refer to:

- . GP 11, How to Check a sensor.
- P/J316, 2K LCSS PWB.
- Figure 1, Component location.
- 312D-110 2K LCSS Power Generation RAP.

Install new components as necessary:

- Bin 1 90% full sensor, PL 12.30 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

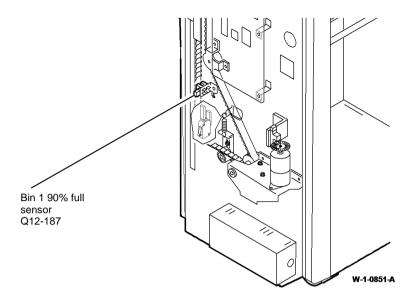
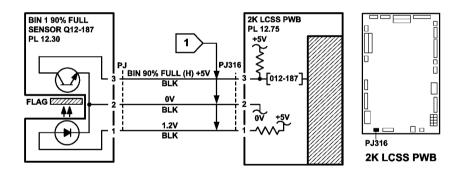


Figure 1 Component location



TW-1-0081-B

Figure 2 Circuit diagram

312C-110 2K LCSS Initialization Failure RAP

When an initialization command is received from the machine, the units are initialized in 2 stages:

- The units that follow are initialized sequentially:
 - 1. If the staple head is not at the home position, it is driven to the home position.
 - If the stapling unit is not at the home position, it is driven to the home position.

NOTE: The staple cartridge must be fully pushed home.

- 3. If the ejector is not at the home position, it is driven to the home position.
- The units that follow are then initialized simultaneously:
 - 1. If the front tamper is not at the home position, it is driven to the home position.
 - 2. If the rear tamper is not at the home position, it is driven to the home position.
 - 3. If the hole punch is not at the home position, it is driven to the home position.
 - 4. If the paddle is not at the home position, it is driven to the home position.
 - 5. If the stacker is not at the home position, it is driven to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.



Do not install a new 2K LCSS PWB until the cause of the damage to the old 2K LCSS PWB has been determined, go to 312G-110 2K LCSS PWB Damage RAP.

Check the fuse on the 2K LCSS PWB, If the fuse (F1) is good, continue at the procedure. If the fuse not good, perform the 312G-110 2K LCSS PWB Damage RAP. If necessary install a new 2K LCSS PWB, PL 12.75 Item 1.

Remove the 2K LCSS rear cover, REP 12.1-110. Check the 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.

Remove the 2K LCSS top cover, front door cover assembly, REP 12.1-110, so that the units can be viewed. Cheat the front door interlock switch and the top cover interlock switch. Check that LED 2 is illuminated. This shows that all interlocks are made. If the LED fails to illuminate, go to 312-310-00-110, 312-312-00-110, 312-313-00-110 Interlocks RAP.

Procedure

Figure 1. Check that the software heartbeat is present. LED 1 should flash twice per second when the 2K LCSS software is running. If necessary reload the 2K LCSS software, GP 4.

If the initialization sequence fails to place any unit at the home position, refer to the appropriate RAPs:

- The front tamper is not at the home position, refer to 312-392-00-110, 312-393-00-110, 312-394-00-110 Front Tamper Move Failure RAP.
- The rear tamper is not at the home position, refer to 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP.
- The paddle is not at the home position, refer to 312-024-00-110, 312-025-00-110 Paddle Roll Failure RAP.
- Bin 1 is not at the home position, refer to 312-462-00-110 Bin 1 Movement Failures RAP
- The hole punch is not at the home position, refer to 312-043-00-110, 312-046-00-110 Hole Punch Operation Failure RAP.
- The staple head is not at the home position, refer to 312E-110 Staple Head Operation Failure RAP.
- The stapling unit is not at the home position, refer to 312-371-00-110, 312-372-00-110. 312-378-00-110 Staple Head Unit Movement Failure RAP.
- The ejector is not at the home position, refer to 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP.

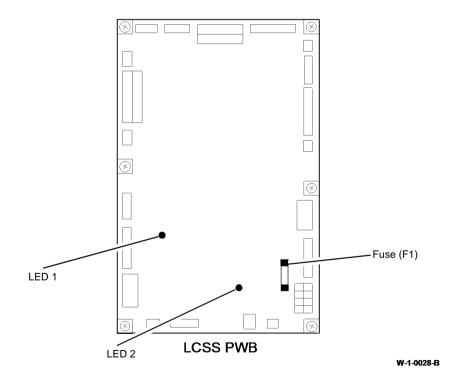


Figure 1 LED location

312D-110 2K LCSS Power Distribution RAP

The 2K LCSS has an integral power supply providing +24V and +5V supplies to the 2K LCSS PWB. The AC power for the 2K LCSS power supply comes from the LVPS module of the machine.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.



Do not connect the finisher power cord directly to the AC wall outlet. The finisher cannot operate without the machine. The machine controls the distribution of electricity to the finisher for correct power on and power off sequencing.

Close or cheat all the 2K LCSS interlocks. LED2 on the 2K LCSS PWB is illuminated.

+24V is available at FUSE (F1) on the 2K LCSS PWB. Υ

Go to Flag 2. Check for +24V between the pins that follow on P/J300:

- Pin 1 and pin 2.
- Pin 1 and pin 3.
- Pin 1 and pin 6.
- Pin 1 and pin 7.
- Pin 5 and pin 2.
- Pin 5 and pin 3.
- Pin 5 and pin 6.
- Pin 5 and pin 7.

+24V is available between all the checked pins.

Ν

Disconnect P/J300. Check for +24V between the pins that follow on the end of the harness:

- Pin 1 and pin 2.
- Pin 1 and pin 3.
- Pin 1 and pin 6.
- Pin 1 and pin 7. Pin 5 and pin 2.
- Pin 5 and pin 3.
- Pin 5 and pin 6.
- Pin 5 and pin 7.

В Α

C



+24V is available between all the checked pins on the end of the harness.

/ N

Refer to Figure 1. Loosen the 4 screws and lift the power supply module away from the 2K LCSS frame. Go to Flag 1. ACL is available at CN1 between pins 1 and 3.

N

Go to the 301C AC Power RAP and check the AC output voltages.

Check the wiring between CN2 and P/J300. The wiring is good.

N

Repair the wiring.

Install a new power supply module, PL 12.75 Item 2.



WARNING

Do not install a fuse of a different type or rating. Installing the wrong type or rating of fuse can cause overheating and a risk of fire.

Perform the steps that follow:

- 1. Switch off the machine, GP 14.
- 2. Go to Flag 3. Disconnect all the +24V harnesses to components.
- 3. Check each harness for short circuits and overheating, GP 7.
- 4. Install new components as necessary.
- Install a new FUSE (F1) on the 2K LCSS PWB, reconnect P/J300 and switch on the machine, GP 14.
- Monitor the voltage at the left end of the fuse and re-connect the circuits one at a time. Energize the re-connected components using the dC330 control codes shown on Figure 2.
- If the voltage drops below +22V, switch off the machine, GP 14. Re-check the last re-connected component and harness for overheating or short circuits. Install new components as necessary.

Go to the 312-310-00-110, 312-312-00-110, 312-313-00-110 Interlocks RAP.

Perform the 312G-110 2K LCSS PWB Damage RAP. If necessary, install a new 2K LCSS PWB, PL 12.75 Item 1.

Go to Flag 2. +5V is available at P/J300 between pins 5 and 7, and between pins 6 and 8.

r

Disconnect P/J300. +5V is available at P/J300 between pins 5 and 7, and between pins 6 and 8 on the end of the harness.

Loosen the 4 screws and lift the power supply module away from the 2K LCSS frame, Figure 2. Go to Flag 1. ACL is available at CN1 between pins 1 and 3.

/ N

Go to the 301C AC Power RAP and check the AC output voltages.

Go to Flag 2. Check the wiring between CN2 and P/J300. The wiring is good.

N

Repair the wiring.

Install a new power supply module, PL 12.75 Item 2.

Perform the steps that follow:

- 1. Switch off the machine, GP 14.
- 2. Go to Flag 4. Disconnect all the +5V harnesses to components.
- 3. Check each harness for short circuits and overheating, GP 7.
- 4. Install new components as necessary.
- Reconnect P/J300 and switch on the machine. GP 14.
- Monitor the voltage at P/J300 pin 8. Re-connect the circuits one at a time. Energize the re-connected components using the dC330 control codes shown on Figure 2.
- If the voltage drops below +4.7V, switch off the machine, GP 14. Re-check the last re-connected component and harness for overheating or short circuits. Install new components as necessary.

If necessary install a new 2K LCSS PWB, PL 12.75 Item 1.

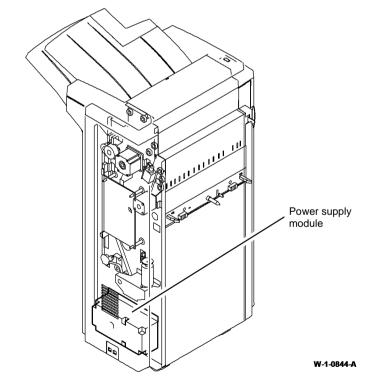


Figure 1 Component location

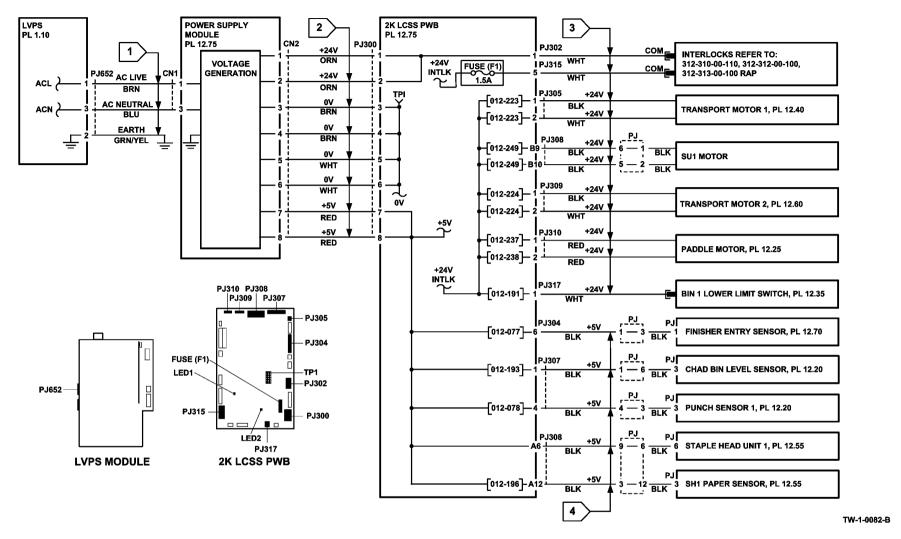


Figure 2 Circuit diagram

312E-110 Staple Head Operation Failure RAP

Use this RAP when the staple head fails to cycle or the stapler jaw is not at the home position.

NOTE: The home position is with the jaws of the staple head fully open.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.



Do not run code 012-247 without 2 sheets of paper in the stapler jaws. Running this code without the paper in position can cause damage to the staple head.

Switch off, then switch on the machine, GP 14.

Check the steps that follow:

- The 2K LCSS PWB DIP switch settings. Refer to the 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- The staple head unit is correctly installed, PL 12.55 Item 5.

Procedure

NOTE: All 2K LCSS interlocks must be made to supply +24V to the motors.

Place 2 sheets of paper in the stapler jaws. Enter dC330 code 012-247 to cycle the staple head once. Enter code 012-248 to reverse the staple head to the home position. **The staple head operates as expected.**

N

Go to Flag 1 and Flag 2. Check the wiring and connectors between the 2K LCSS PWB and the staple head. **The wiring is good.**

Y N

Repair the wiring, REP 1.2 Wiring Harness Repairs.

Refer to:

- GP 13, How to Check a Switch.
- P/J308, 2K LCSS PWB.
- Figure 1, Component location.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- Staple head unit, PL 12.55 Item 5.
- 2K LCSS PWB, PL 12.75 Item 1.

NOTE: Switch off, then switch on the machine, GP 14, to enable operation of the staple head.

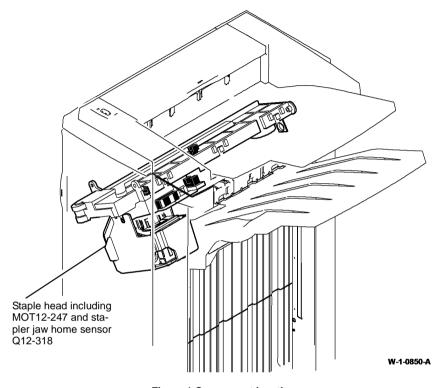


Figure 1 Component location

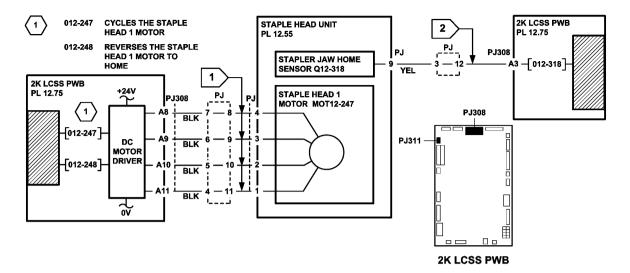


Figure 2 Circuit diagram

TW-1-0085-B

To show the correct settings for the DIP switch on the 2K LCSS PWB.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

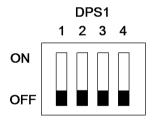


Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Problems that can result from incorrect DIP switch settings are:

- False jam clearance instructions for the 2K LCSS and/or the machine exit area.
- Communication errors between the 2K LCSS and machine.
- · Erratic behaviour of the 2K LCSS.

Check the DIP switch settings, Figure 1. If necessary, switch off the machine, GP 14. Correct the DIP switch setting, then switch on the machine, GP 14.



W-1-0029-A

Figure 1 DIP switch settings

312H-110 Copy Damage in the 2K LCSS RAP

Use this RAP to identify and correct the causes of copy damage in the 2K LCSS.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

Perform the checks that follow:

- Look for torn paper in the 2K LCSS paper path. Torn fragments can pass through the IOT and 2K LCSS paper path without causing a problem until they finally wedge themselves at some point. A likely place for a piece of paper to be wedged is at the hole punch assembly, where the top and bottom guides form the narrowest part of the paper path.
- Ensure that the exit diverter gate, PL 12.60 Item 13, operates correctly and has full movement.
- Ensure that the hole punches park at the fully open position. If they protrude even slightly, a jam will occur in the narrow paper path of the hole punch.
- Ensure that the jam clearance guide, PL 12.70 Item 6, closes and latches correctly. Check
 that the magnet at the rear is located and operates correctly. Check the spring clip at the
 front is positioned correctly, Figure 1.
- Ensure that all idler rolls in the 2K LCSS paper path are free to rotate, particularly those on the jam clearance guide, where the paper turns through 90 degrees.
- Ensure that the paper path ribs of the paper entry guide assembly, PL 12.40 Item 8, and the entry guide cover, PL 12.70 Item 5, are free of scores and nicks. Check also for contamination and glue from label stock.

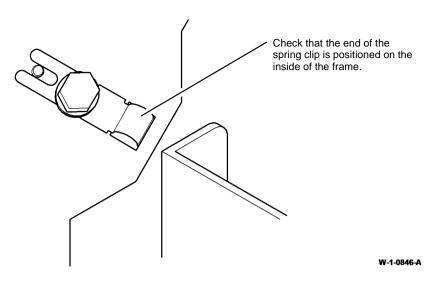


Figure 1 Position of the spring clip

312J-110 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP

Use this RAP to identify and correct the causes of mis-registration in stapled sets, resulting in staples missing some sheets in the set, or poorly registered non-stapled sets.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

The most likely cause of mis-registration is paper condition and/or damage such as curl, wrinkle, creases, or dog ears.

Curl, wrinkle and creases are probably caused in the IOT. Perform the IQ1 Image Quality Entry RAP.

For other copy/print damage and dog ears, perform the 312H-110 Copy Damage in the 2K LCSS RAP.

Perform the steps that follow:

- Check that bin 1 is seated correctly and the bin 1 alignment clip is in position, PL 12.10 Item 13.
- Turn over the paper stack in the tray in use.
- Use a new ream of paper in the tray in use.
- Paper type, especially recycled paper, can lead to registration problems. Change to a different brand or type of paper, if available.
- Ensure that the guides in the paper trays are correctly set and reported on the UI for the paper size loaded.
- Check that paper type is set correctly. If heavyweight paper is used but not set in the UI, the compiler capacity can be exceeded.
- Check for obstructions in the compiler.
- Ensure that the paddle shaft operates correctly and that the paddles are not damaged. The paddles should park completely inside the output cover, PL 12.10 Item 7, with the shorter paddle in a vertical position. If all of the paddles are out of position, check the paddle roll home sensor, PL 12.25 Item 11, the flag, PL 12.25 Item 6 and the paddle roll motor assembly, PL 12.25 Item 10. If only 1 paddle is mis-aligned with the others, it can be repositioned by hand (they are not bonded to the shaft).
- Ensure that the tampers operate correctly, i.e. are not stalling or losing position during the
 job. Inspect the tampers for damage, if necessary, install new components, PL 12.45.

- Inspect the bin 1 entry nips for roll damage. The idlers should be held against the rubber driving rolls and they should be free to rotate within their support springs. If necessary, install new components, PL 12.65.
- Inspect the 4 spring loaded guides on the output cover, PL 12.10 Item 7. Ensure that they are correctly located and are free to move up and down.

312K-110 2K LCSS Poor Stacking RAP

Use this RAP to find the cause of poor stacking in the 2K LCSS.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the checks that follow:

- Look for sets that are not dropping back fully in bin 1 and therefore not operating the bin 1 level sensor:
 - Large paper sizes should not be stacked on top of small paper sizes.
 - Ensure that the paper stack in each paper tray has been fanned.
 - Turn over the paper stack in each paper tray.
 - Ensure that all paper or other copy stock being used is within the size and weight specifications. Refer to GP 20 Paper and Media Size Specifications.
 - Use a new ream of paper, if available.
 - Ensure that the edge guides of all paper trays are adjusted correctly for the paper size and that the trays are fully closed.
 - Check that bin 1 is seated correctly and the bin 1 alignment clip is in position, PL 12.10 Item 13.
- Labels must not be fed to bin 1. Feed all labels to bin 0 only.
- It is recommended that transparencies are fed to bin 0 whenever possible.
- Check that bin 1 is level front to back. If necessary, perform ADJ 12.1-110 2K LCSS Bin 1 Level.
- Check that the bin 1 upper level sensor Q12-188 is working correctly. Refer to the Bin 1
 Movement Failure RAP.
- Check the operation of the front and rear tampers. Refer to 312-392-00-110, 312-393-00-110, 312-394-00-110 Front Tamper Move Failure RAP and 312-396-00-110, 312-397-00-110, 312-398-00-110 Rear Tamper Move Failure RAP.
- Check that the output device is not near an air conditioning or ventilation output duct. Air flow across the output bins can cause poor stacking.

312L-110 Stapler Priming Failure RAP

Use this RAP when the staples in the stapling head are not primed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when undocked from the machine. Do not show the customer how to undock the 2K LCSS.

- Switch off, then switch on the machine, GP 14.
- Check the 2K LCSS PWB DIP switch settings. Refer to 312F-110 2K LCSS PWB DIP Switch Settings RAP.
- · Perform the checks that follow:
 - The staple cartridge has staples in it and is correctly installed.
 - The leading staples in the staple head have been primed, Figure 3.
 - Check that the sheets of staples in the cartridge are feeding one at a time. If staple sheets overlap, they will jam in the cartridge. If necessary, install a new staple cartridge, PL 12.55 Item 7.

NOTE: The term "priming" refers to 2 staples at the front of the cartridge, that have been preformed automatically by the action of the stapler, refer to Figure 3.

NOTE: The SH1 low staples sensor, SH1 cartridge sensor, SH1 home sensor and the SH1 priming sensor are all integral to the staple head unit. These sensors can be checked using component control codes but they cannot be exchanged as components.

Procedure

Figure 1. Enter dC330 code 012-196, SH1 paper sensor Q12-196, actuate the sensor. **The display changes.**

N

Go to Flag 1. Check Q12-196.

Refer to:

- GP 11, How to Check a Sensor.
- P/J308. 2K LCSS PWB.
- 312D-110 2K LCSS Power Distribution RAP.

Install new components as necessary:

- SH1 paper sensor, PL 12.55 Item 4.
- 2K LCSS PWB, PL 12.75 Item 1.

NOTE: If the SH1 priming sensor does not detect staples in the primed position, the staple head cycles a number of times to prime the staple head. This occurs when the 2K LCSS interlocks are made.

Follow the customer instruction label inside the 2K LCSS front door to remove the staple cartridge. Open the forming gate to slide out the bottom sheet of staples from the cartridge, to expose a new sheet of staples on the bottom of the stack. Ensure the forming plate is fully closed, Figure 2. Install the staple cartridge and close the door. The stapler will now cycle a few times to feed and prime the new sheet of staples. Open the door and remove the staple cartridge. Examine the sheet of staples that have been fed to the staple forming part of the stapler, by opening the forming plate, Figure 3. **The first 2 staples have been partially formed.**

N

Install a new staple cartridge, PL 12.55 Item 7 and repeat the check. If the first 2 staples are not partially formed install a new staple head unit, PL 12.55 Item 5. Perform SCP 5 Final Actions.

The staple priming is working correctly. Perform SCP 5 Final Actions.

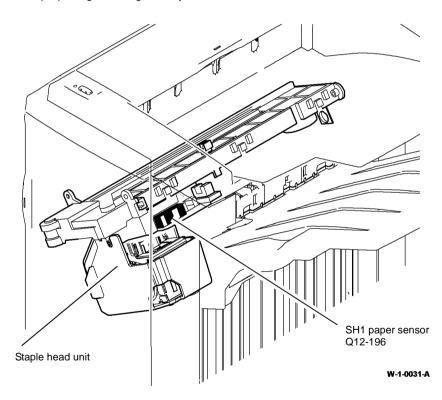
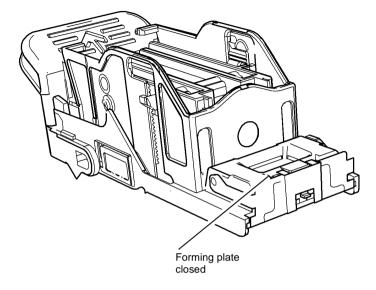
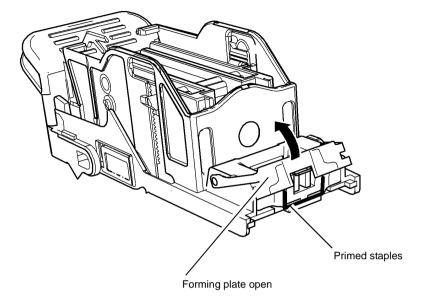


Figure 1 Component location



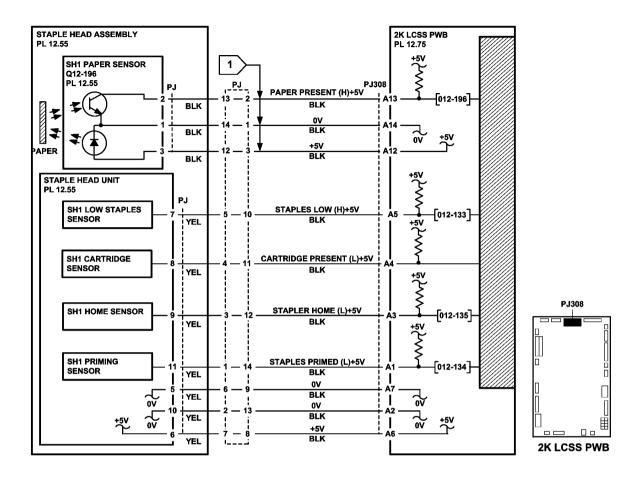
W-1-0032-A

Figure 2 Staple cartridge closed



W-1-0033-A

Figure 3 Staple cartridge open



TW-1-0084-B

Figure 4 Circuit diagram

312-024-00-150, 312-025-00-150 Paddle Roll Failure RAP

312-024-00-150 The paddle was not at the home position.

312-025-00-150 The paddle failed to rotate.

NOTE: The paddle is in the home position when the sensor flag is located between the sensor jaws. If a jam occurs in the compiler, bin 1 will not be available.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the items that follow:

- That there is no paper or other obstruction in the vicinity of the paddle.
- The paddle roll position sensor bracket is holding the sensor in the correct position, i.e.
 the flag is in the middle of the sensor gap and the sensor does not touch any moving components.
- That the paper type is set correctly. If heavyweight paper is used but not set in the UI, the compiler capacity can be exceeded. Refer to 312G-150 Mis-Registration in Stapled Sets and Non-stapled Sets RAP.
- The position of the paddles. With the paddle roll in the home position, both sets of paddles
 must be within the output cover. If they are not, refer to REP 12.12-150 Paddle Shaft
 Assembly and Paddle Motor Assembly. If any of the paddles are out of alignment to other
 paddles, install a new set of 4 paddles. PL 31.12 Item 5.
- LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, code 012-237, to run the paddle motor, MOT12-238, PL 12.335 Item 10. **The paddle rotates correctly.**

N

Go to Flag 2. Check the paddle roll motor, MOT12-238. Refer to:

- GP 10, How to Check a Motor.
- Figure 1.
- P/J310, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Paddle motor assembly, PL 12.335 Item 10.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-186, paddle roll home sensor, Q12-186, PL 12.335 Item 4. Add the code 012-238, paddle roll motor run, to actuate Q12-186. **The display cycles high/low.**

N

Go to Flag 1. Check Q12-186. Refer to:

- GP 11, How to Check a Sensor.
- Figure 1.
- P/J314, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Paddle roll home sensor, PL 12.335 Item 4.
- LVF PWB. PL 12.425 Item 8.

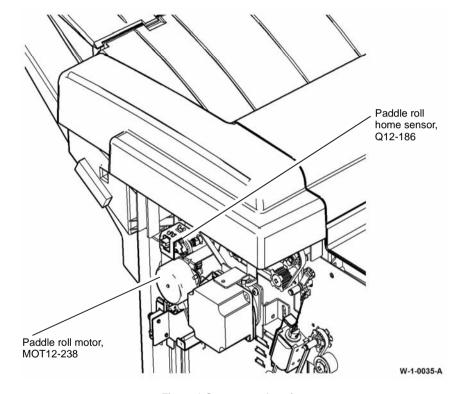
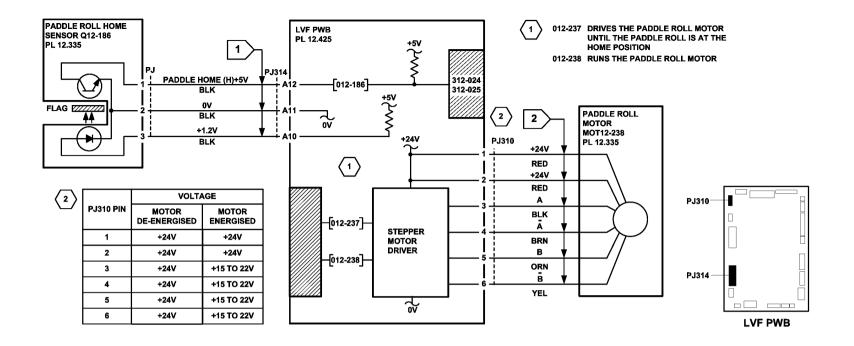


Figure 1 Component location



TW-1-0023-A

Figure 2 Circuit diagram

312-043-00-150, 312-046-00-150 Hole Punch Operation Failure RAP

312-043-00-150 The hole punch failed to perform a punch cycle.

312-046-00-150 The hole punch was not at the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Check that the hole punch is present and correctly installed.
- Check that the hole punch has not jammed in the down position. This can occur with transparencies and labels.

NOTE: The home position of the punch unit is when the cut-out in the actuator is between the punch head home sensor jaws.

Procedure

Go to Flag 5. Check the link between P/J307 pins 10 and 11, LVF PWB. The link is good.

′

Repair the wiring or connector, REP 1.2.

Enter dC330, code 012-195, punch head present sensor, Q12-195, Figure 1. Actuate Q12-195. **The display changes.**

N

Go to Flag 2. Check Q12-195.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Punch head home sensor, PL 12.330 Item 1.
- LVF PWB, PL 12.425 Item 8.

Enter dC330 code 012-194, punch head home sensor, Q12-194, Figure 1. Actuate Q12-194. **The display changes.**

N

Go to Flag 1. Check Q12-194.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Punch head home sensor, PL 12.330 Item 1.
- LVF PWB, PL 12.425 Item 8.

Enter dC330 code 012-244, punch head run. The punch cycles.

′ N

Go to Flag 3. Check the hole punch motor, MOT12-243. Refer to:

- Figure 2.
- GP 10. How to Check a Motor.
- P/J311, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Punch head motor assembly, PL 12.330 Item 2.
- LVF PWB. PL 12.425 Item 8.

NOTE: The chad bin collects the pieces of paper cut out by the hole punch. The chad bin level sensor will not operate if the bin is incorrectly installed. Ensure the chad bin is fully inserted and the lever engages in the slot.

Enter dC330, code 012-193, chad bin level sensor, Q12-193, Figure 2. Use a strip of paper to actuate Q12-193. **The display changes.**

N

Go to Flag 4. Check Q12-193.

Refer to:

- GP 11 How to Check a Sensor.
- P/J307. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary.

- Chad bin level sensor, PL 12.330 Item 7.
- LVF PWB, PL 12.425 Item 8.

At a customer site with more that one type of Xerox device, it is possible that chad bins may have been inadvertently swapped. Refer to Figure 3, ensure that the correct type of chad bin is installed.

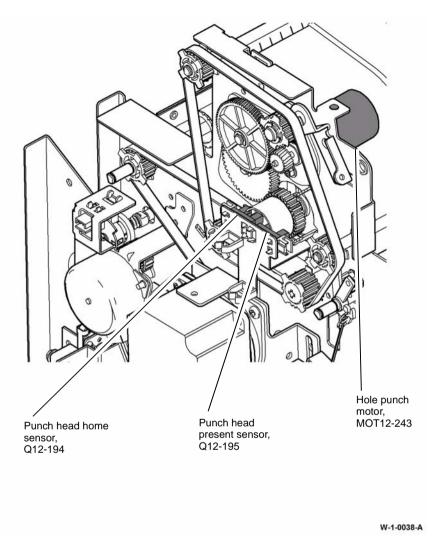


Figure 1 Component location

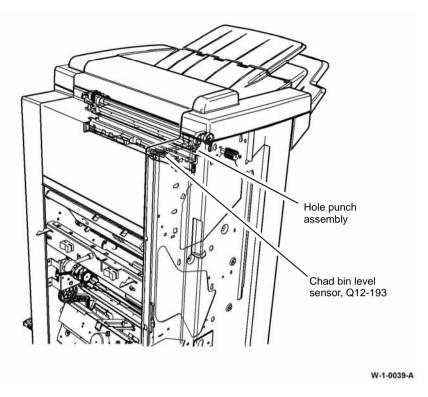


Figure 2 Component location

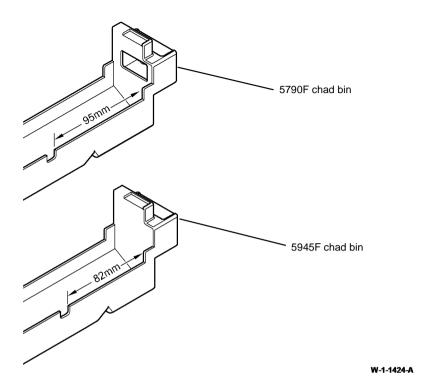
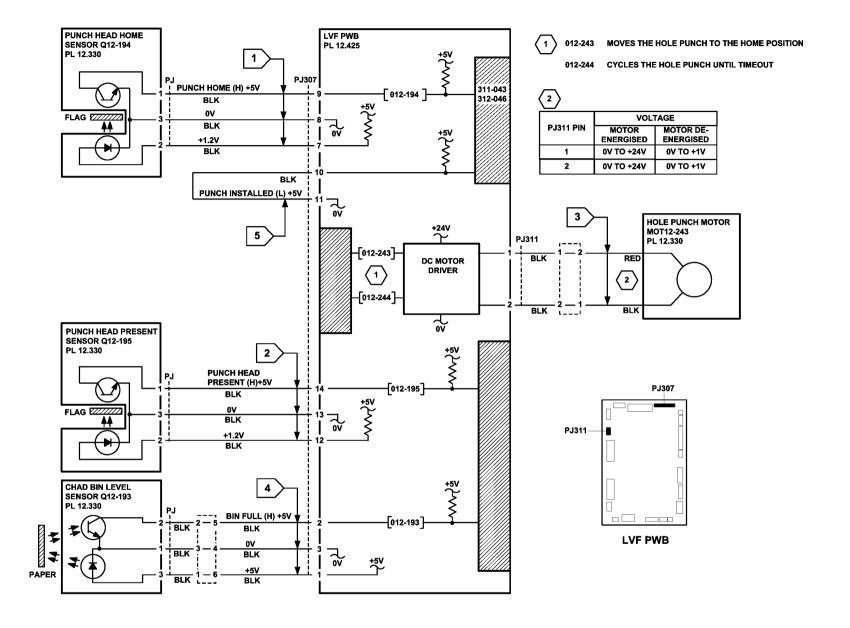


Figure 3 Chad bin differences



TW-1-0026-A

Figure 4 Circuit diagram

312-061-00-150 Crease Blade Move Failure RAP

312-061-00-150 The crease blade failed to clear the crease blade home sensor.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Rotate the crease blade handle, PL 12.405 Item 1, to ensure that the crease blade mechanism is free to move. If necessary, clear any paper jam in the area of the crease blade.

Procedure

Check the parts that follow for damage:

- Crease blade assembly, PL 12.405 Item 5.
- Crease blade drive gear, PL 12.405 Item 7.
- Crease blade gearbox, PL 12.405 Item 11.
- Crease blade cranks, PL 12.405 Item 12.
- Crease blade front blade arm, PL 12.405 Item 8.
- Crease blade rear blade arm. PL 12.405 Item 9.
- Crease blade guides, PL 12.405 Item 3.

The parts are good.

Y N

Install new components as necessary.

Enter dC330 code 012-214, crease blade home sensor, Q12-214. Actuate Q12-214, Figure 1, by rotating the crease blade knob so that the flag on the crease blade moves into and out of Q12-214. **The display changes.**

N

Go to Flag 1. Check Q12-214.

Refer to:

- GP 11, How to Check a Sensor.
- P/J104, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- Crease blade home sensor, PL 12.405 Item 4.

Enter dC330 code 012-215, crease blade motor encoder sensor, Q12-215. Actuate Q12-215, Figure 1, by slowly rotating the crease blade knob. **The display changes.**

N

Go to Flag 3. Check Q12-215.

Refer to:

- GP 11, How to Check a Sensor.
- P/J104. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12,425 Item 1.
- Crease blade motor encoder sensor, PL 12.405 Item 4.

Enter dC330 code 012-252 to cycle the crease blade motor, MOT12-252, Figure 1. **The motor runs.**

N

Go to Flag 2. Check MOT12-252.

Refer to:

- GP 10. How to Check a Motor.
- P/J104. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12,425 Item 1.
- Crease blade motor, PL 12.405 Item 2.

The fault may be intermittent. Check for damaged wiring or connectors. If necessary repair the wiring, REP 1.2, or install new components.

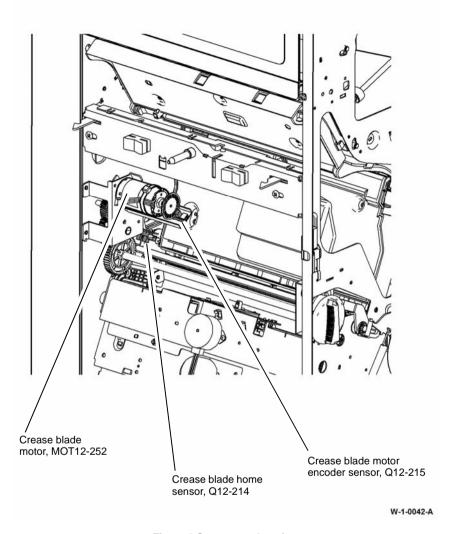
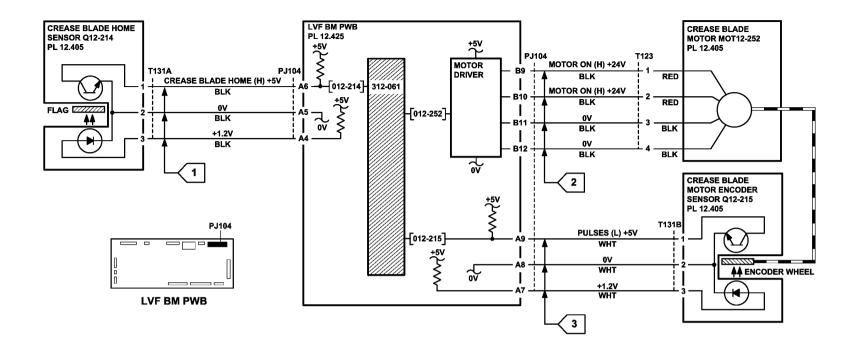


Figure 1 Component location



TW-1-0029-A

Figure 2 Circuit diagram

312-062-00-150 Crease Roll Failure RAP

312-062-00-150 The crease roll motor failed to run.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Rotate the crease roll handle, PL 12.410 Item 1, to ensure that the crease roll mechanism is free to move. If necessary clear any paper jam in the area of the crease rolls.

Procedure

Check the parts that follow for damage:

- Upper crease roll, PL 12.410 Item 2.
- Lower crease roll, PL 12.410 Item 3.
- Crease roll gearbox assembly, PL 12.415 Item 8.
- Crease roll gear 1, PL 12.415 Item 1.
- Crease roll gear 2, PL 12.415 Item 2.
- Crease roll gear 3, PL 12.415 Item 3.
- Crease roll gear 4, PL 12.415 Item 4.

The parts are good.

N

Install new components as necessary.

Enter dC330 code 012-216, crease roll motor encoder sensor, Q12-216. Actuate Q12-216, Figure 1, by slowly rotating the crease roll handle. **The display changes.**

Ν

Go to Flag 1. Check Q12-216.

Refer to:

- GP 11, How to Check a Sensor.
- P/J112, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- Crease roll motor encoder sensor, PL 12.415 Item 7.

Enter dC330 code 012-253 to run the crease roll motor, MOT12-253, Figure 1. **The motor runs.**

N

Go to Flag 2, MOT12-253.

Refer to:

- GP 10, How to Check a Motor.
- P/J103, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB. PL 12.425 Item 1.
- Crease roll motor, PL 12.415 Item 5.

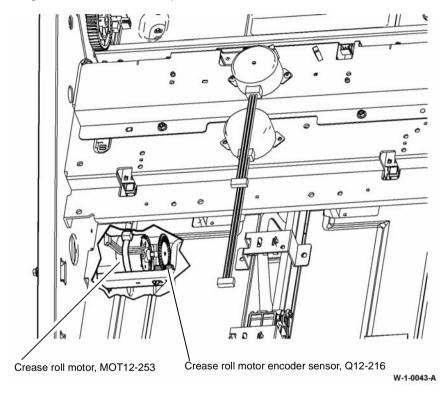
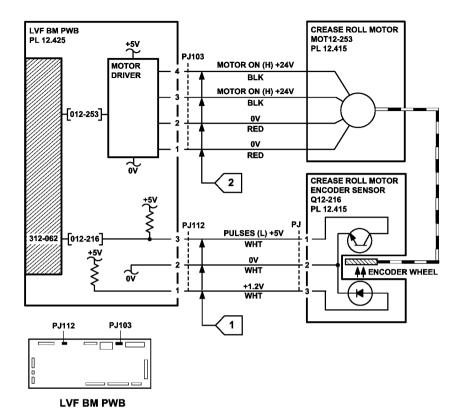


Figure 1 Component location



TW-1-0030-A

Figure 2 Circuit diagram

312-063-00-150, 312-414-00-150, 312-488-00-150, 312-490-00-150 Booklet Stapler Movement Failure RAP

312-063-00-150 The booklet stapler unit failed to move away from the home position.

312-414-00-150 The booklet stapler head failed to move to the home position in the allowed time during initialisation or at a set boundary.

312-488-00-150 The booklet stapler unit failed to move to the home position in the allowed time.

312-490-00-150 The booklet stapler unit failed to move to the away position in the allowed time.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check for a paper jam, paper debris or damage in the stapler area that would hinder the movement of the BM staple head assembly,

Procedure

Enter dC330 code 012-438, BM staple unit home sensor, Q12-438. Actuate Q12-438, Figure 1. The display changes.

Ν

Go to Flag 1. Check Q12-438.

Refer to:

- GP 11, How to Check a Sensor.
- P/J107, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- Staple unit home sensor, PL 12.395 Item 2.

Enter dC330 code 012-439, BM staple unit away sensor, Q12-439, Figure 1. Actuate Q12-439. The display changes.

Ν

Go to Flag 2. Check Q12-439.

GP 11. How to Check a Sensor.

- P/J107, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- Staple unit away sensor, PL 12.395 Item 2.

Enter dC330 code 012-437 to run the BM staple clinch motor, MOT12-437, Figure 2. **The motor runs.**

N

Go to Flag 5. Check MOT12-437.

Refer to:

- · GP 10, How to Check a Motor.
- P/J107, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM staple head assembly, PL 12.395 Item 5.
- BM stapler assembly, PL 12.395 Item 1.

Enter dC330 code 012-411 to monitor the BM stapler jaw home sensor, Q12-411, Figure 2. Add the code 012-437 to run the BM staple clinch motor, MOT12-437. **The display changes.**

' |

Go to Flag 3. Check Q12-411.

Refer to:

- GP 11, How to Check a Sensor.
- P/J107, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM staple head assembly, PL 12.395 Item 5.

Enter dC330 code 012-435, BM staple unit move to home, to move the staple unit to the home position, or enter code 012-436, BM staple unit move to away, to move the staple unit to the away position, Figure 1. **The motor runs.**

/ 1

Go to Flag 4. Check the staple unit move motor, MOT12-435.

Refer to:

- GP 10, How to Check a Motor.
- P/J106. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB. PL 12.425 Item 1.
- BM staple unit move motor, PL 12.395 Item 3.

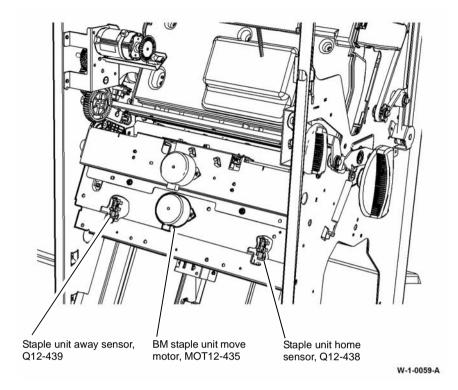


Figure 1 Component location

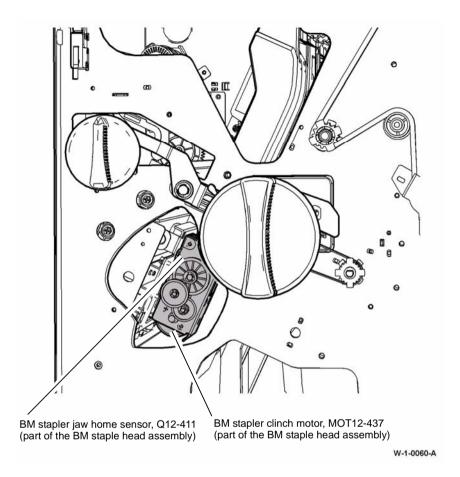


Figure 2 Component location

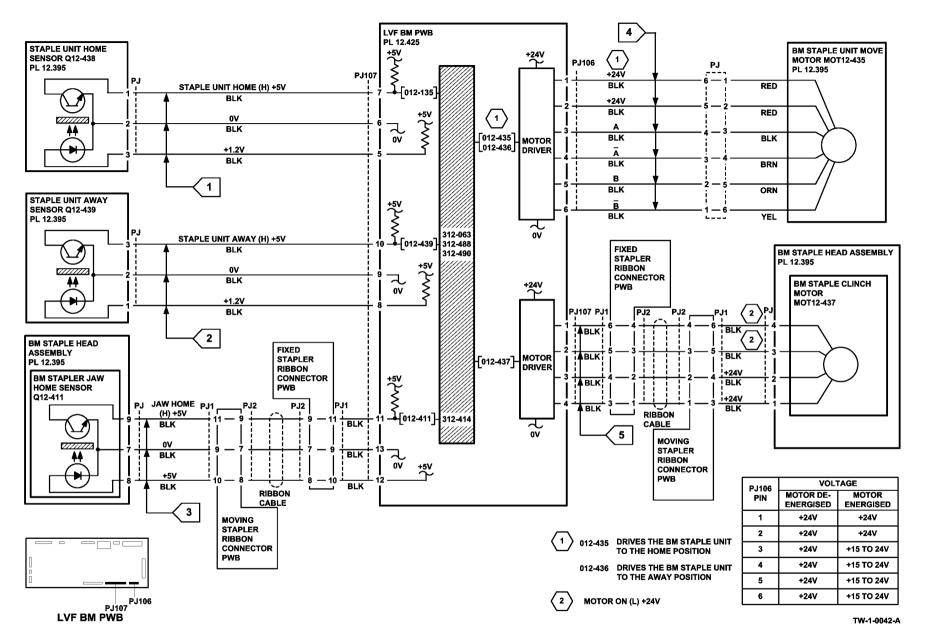


Figure 3 Circuit diagram

312-065-00-150, 312-383-00-150, 312-484-00-150, 312-486-00-150 Back Stop Failure RAP

312-065-00-150 The back stop motor failed to run.

312-383-00-150 The back stop was not at the home position.

312-484-00-150 The back stop failed to move to the mid home position in the allowed time.

312-486-00-150 The back stop failed to leave the mid home position in the allowed time.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check for any paper jams in the booklet compiler. If necessary clear any stray sheets or paper debris.

Procedure

Check the parts that follow for damage:

- BM back stop drive belt. PL 12.400 Item 8.
- BM back stop drive pulley. PL 12.400 Item 7.
- BM back stop pulleys, PL 12.400 Item 5.
- BM back stop belt, PL 12.400 Item 4.
- BM back stop assembly, PL 12.400 Item 12. Check the wheels on the right side of the backstop assembly are present, are free to rotate and are not contaminated.

The parts are good.

Y N

Install new components as necessary.

Enter dC330 code 012-204, BM guide home sensor, Q12-204. Actuate Q12-204, Figure 1, by rotating the drive belt and pulley by hand so that the flag on the back stop moves into and out of Q12-204. **The display changes.**

' N

Go to Flag 1. Check Q12-204.

Refer to:

- GP 11. How to Check a Sensor.
- P/J105, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM guide home sensor, PL 12.400 Item 10.

Enter dC330 code 012-440, BM back stop mid home sensor, Q12-440. Actuate Q12-170, Figure 1, by rotating the drive belt and pulley by hand so that the flag on the back stop moves into and out of Q12-440. **The display changes.**

Y N

Go to Flag 2. Check Q12-440.

Refer to:

- GP 11. How to Check a Sensor.
- P/J105. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM back stop mid home sensor, PL 12.400 Item 10.

Enter dC330 code 012-255 to run the BM back stop motor, MOT12-255, Figure 1. **The motor runs.**

Y N

Go to Flag 3. Check MOT12-255.

Refer to:

- GP 10. How to Check a Motor.
- P/J105, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM back stop motor, PL 12.400 Item 9.

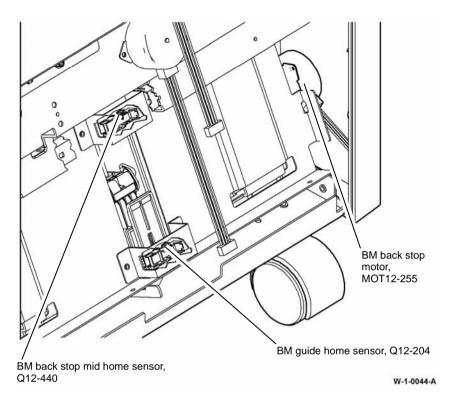


Figure 1 Component location

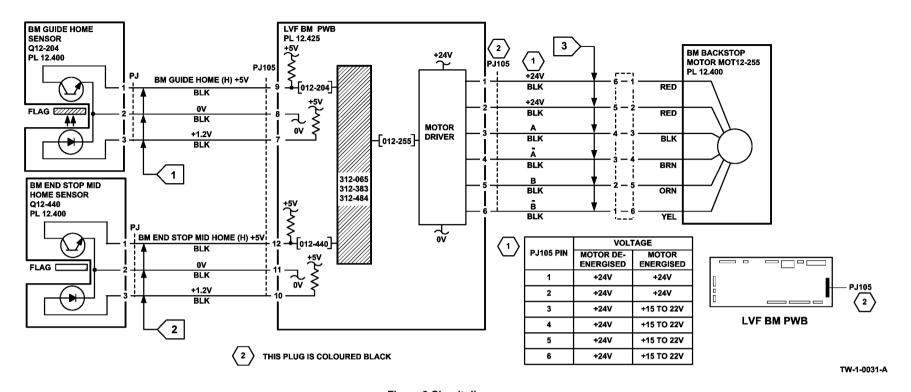


Figure 2 Circuit diagram

312-066-00-150, 312-384-00-150 Booklet Tamper 1 Move Failure RAP

312-066-00-150 The booklet tamper failed to clear the tamper home sensor.

312-384-00-150 The booklet tamper failed to move to the home position.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check that the booklet tamper mechanism is free to move. If necessary clear any paper jam in the area of the booklet tamper.

Procedure

Check the parts that follow for damage:

- Booklet tamper arms, PL 12.380 Item 2.
- Booklet tamper assembly, PL 12.380 Item 1.

The parts are good.

Y N

Install new components as necessary.

Enter dC330 code 012-205, BM tamper 1 home sensor, Q12-205. Actuate Q12-205, Figure 1, by moving the tamper arms fully out then fully in. **The display changes.**

N

Go to Flag 1. Check Q12-205.

Refer to:

- GP 11, How to Check a Sensor.
- P/J108, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM tamper 1 home sensor, PL 12.380 Item 6.

Enter dC330 code 012-256 to run the BM booklet tamper 1 motor, MOT12-256, Figure 1. **The motor runs.**

' |

Go to Flag 2. Check MOT12-256.

Refer to:

- GP 10. How to Check a Motor.
- P/J108, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM booklet tamper 1 motor, PL 12.380 Item 3.

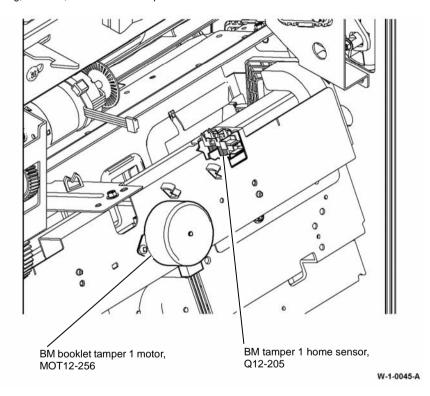
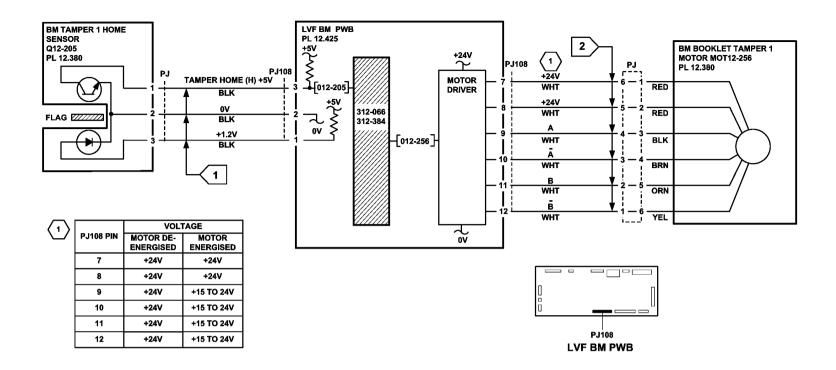


Figure 1 Component location



TW-1-0032-A

Figure 2 Circuit diagram

312-125-00-150, 312-126-00-150, 312-199-00-150 Paper Entry Jam RAP

312-125-00-150 The lead edge of the sheet was late to the finisher entry sensor.

312-126-00-110 The trail edge of the sheet was late from the finisher entry sensor.

312-199-00-110 The entry sensor detected paper at the start of a job or during a job without the finisher first receiving a paper at IOT exit sensor command.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to the 312H-150 Copy Damage in the LVF RAP.

Check the items that follow:

- If the fault code is 312-199-00, switch off then switch on the machine, GP 14.
- LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- That the paper tray guides are set to the correct position for the size of paper in the tray.
- The paper entry guide assembly, PL 12.350 Item 7, for damage or wear that could cause paper to jam.
- ADJ 12.2-150 Machine to LVF BM Alignment.
- Horizontal transport assembly, PL 10.15 Item 1, for obstructions.
- Feeding performance from a paper tray loaded with a new ream of paper.

Procedure

Lower the paper entry guide assembly, PL 12.350 Item 7, to access the entry sensor, Q12-077, Figure 1. Enter dC330, code 012-077. Actuate Q12-077. **The display changes.**

N

Go to Flag 1. Check Q12-077.

Refer to:

- GP 11, How to Check a Sensor.
- P/J304. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Entry sensor, PL 12.385 Item 7.
- LVF PWB. PL 12.425 Item 8.

Check the operation of the horizontal transport assembly, PL 10.15 Item 1. Refer to 310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP.

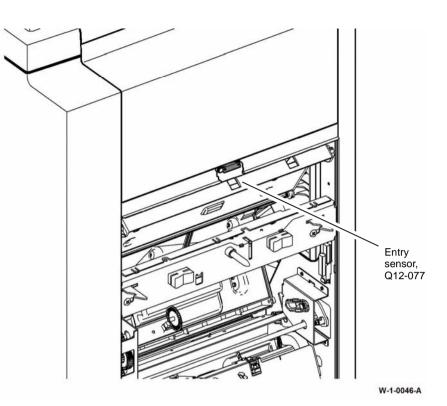
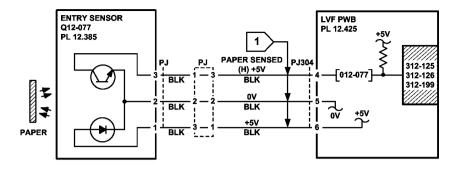
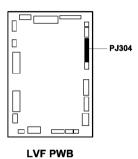


Figure 1 Component location





TW-1-0033-B

Figure 2 Circuit diagram

312-127-00-150 Sheet Late to Hole Punch RAP

312-127-00-150 A sheet was late to the punch sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the items that follow:

- The LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- That the paper tray guides are set to the correct position for the size of paper in the tray.
- For a paper jam at the entrance to the LVF BM. Check that there is no obstruction that would prevent a sheet from arriving in position for punching, refer to the 312H-150 Copy Damage in the LVF BM RAP.
- The punch sensor 1, Q12-078 for chad debris, Figure 1.

Procedure

Enter dC330, code 012-078, punch sensor 1, Q12-078, Figure 1. Actuate Q12-078. **The display changes.**

N

Go to Flag 1. Check Q12-078.

Refer to:

- GP 11, How to Check a Sensor.
- P/J307, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Punch sensor 1, PL 12.330 Item 7.
- LVF PWB, PL 12.425 Item 8.

Perform SCP 5 Final Actions.

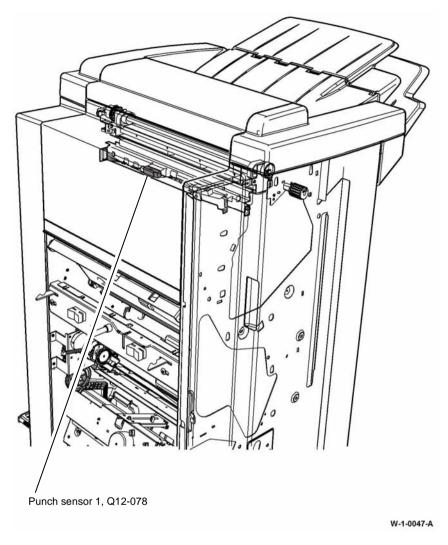
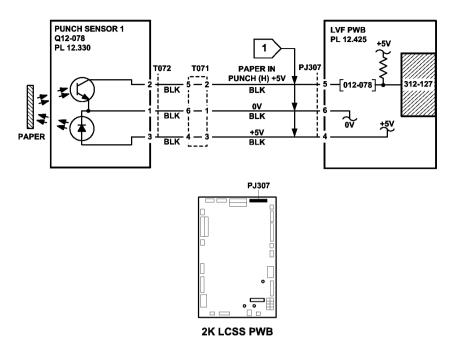


Figure 1 Component location



TW-1-0034-A

Figure 2 Circuit diagram

312-151-00-150, 312-152-00-150 Sheet Late to Bin 1 RAP

312-151-00-150 The leading edge of the sheet was late to the compiler exit sensor.

312-152-00-150 The trailing edge of the sheet was late to the compiler exit sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: Paper is diverted to bin 0 when the exit diverter solenoid is energized. Paper is fed to bin 1 when the exit diverter solenoid is de-energized.

Check the items that follow:

- LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- That the paper tray guides are set to the correct position for the size of paper in all trays.
 For trays 3 and 4, perform the steps that follow:
 - Select the systems settings button from the tools screen.
 - Select the tray management button and stock settings.
 - From the list, select tray 3. Select the change stock size button.
 - Select the paper size loaded in the tray. Select the save button.
 - Repeat for tray 4.
 - Save the stock setting and exit the tools mode.
- The tensioner on the intermediate paper drive belt. Check that the tensioner is free to
 move and that the tensioner pulley is free to rotate. If necessary re-lubricate the tensioner
 and tensioner pulley. REP 12.3-150. Refer to GP 18 Machine Lubrication.
- That the drive pulleys on both transport motor 1 and 2 are secure and do not slip on the motor shaft.
- All the transport drive belts are correctly fitted, are in a good condition and correctly tensioned. Refer to ADJ 12.4-150.
- All the transport rolls and idler pulleys are free to rotate.
- The exit diverter gate and linkage for free movement.
- A paper jam in the path to bin 1, to the compiler, and for poor stacking on bin 1.
- Ensure that the LVF BM is fully latched to the machine, refer to REP 12.13-150.
- That there are no torn paper fragments from a previous jam clearance action.

Refer to the 312H-150 Copy Damage in the LVF BM RAP and the 312G-150 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, code 012-224 to run the transport motor 2, Figure 1. The motor runs.

N

Go to Flag 3. Check MOT12-224.

Refer to:

- GP 10, How to check a motor.
- P/J309. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Transport motor 2, PL 12.370 Item 5.
- LVF PWB. PL 12.425 Item 8.

Enter dC330, code 012-225, exit diverter solenoid, SOL12-225. Energize SOL12-255, Figure 1. The solenoid energizes.

Υ

Go to Flag 4. Check SOL12-225.

Refer to:

- GP 12, How to Check a Solenoid or Clutch.
- P/J306, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Exit diverter solenoid, PL 12.370 Item 12.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-106, compiler exit sensor, Q12-106, Figure 1. Actuate Q12-106. **The display changes.**

N

Go to Flag 1. Check Q12-106.

Refer to:

- GP 11. How to Check a sensor.
- P/J314, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Compiler exit sensor, PL 12.375 Item 4.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-223 to run the transport motor 1, MOT12-223, Figure 1. **The** motor runs.

N

Go to Flag 2. Check MOT12-223.

Refer to:

- GP 10. How to Check a Motor.
- P/J305, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Transport motor 1, PL 12.350 Item 2.
- LVF PWB, PL 12.425 Item 8.

If the fault persists, perform 312-396-00-150, 312-397-00-150, 312-398-00-150 Rear Tamper Move Failure RAP.

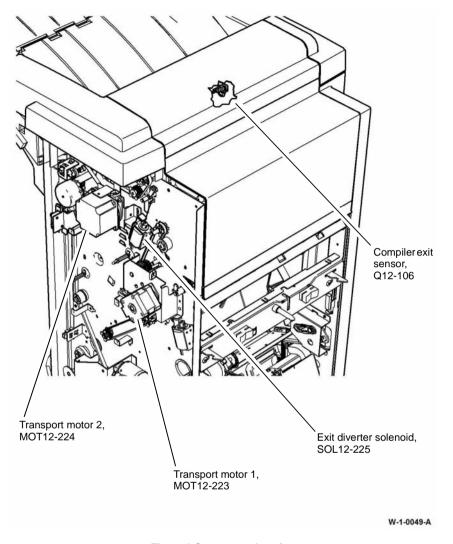


Figure 1 Component location

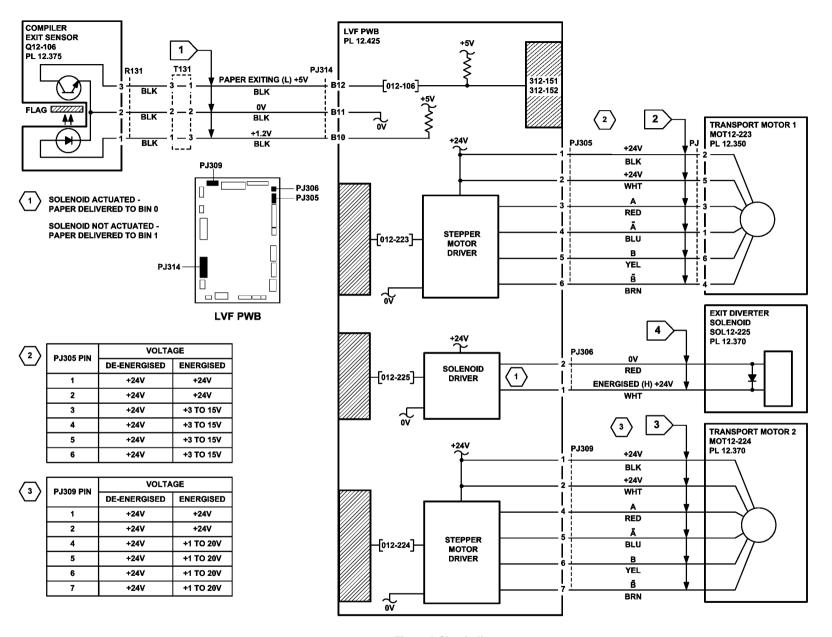


Figure 2 Circuit diagram

TW-1-0036-A

312-160-00-150, 312-162-00-150 Booklet Maker Entry Jam RAP

312-160-00-150 The lead edge of the sheet was late to the booklet maker entry sensor.

312-162-00-150 The trail edge of the sheet was late from the booklet maker entry sensor.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check the paper path to the booklet compiler. Clear the paper path of any jams or paper debris. Ensure the BM compiler guide assembly is correctly latched.

Procedure

Check the parts that follow for damage:

- Booklet diverter gate, PL 12.385 Item 2.
- Booklet compiler entrance guide, PL 12.385 Item 1.
- BM compiler guide assembly, PL 12.390 Item 1.

The parts are good,

/ N

Install new components as necessary.

Enter dC330 code 012-089, BM entry sensor, Q12-089. Actuate Q12-089, Figure 1. **The display changes.**

' N

Go to Flag 1. Check Q12-089.

Refer to:

- GP 11, How to Check a Sensor.
- P/J104. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12,425 Item 1.
- BM entry sensor, PL 12.385 Item 6.

Enter dC330 code 012-207, BM flapper home sensor, Q12-207. Actuate Q12-207, Figure 2. **The display changes.**

Y N

Go to Flag 4. Check Q12-207.

Refer to:

- GP 11. How to Check a Sensor.
- P/J104, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM flapper motor assembly, PL 12.390 Item 17.

Enter dC330 code 012-258 to energize the booklet diverter gate solenoid, SOL12-258, Figure 3. **The solenoid energizes.**

- 1

Go to Flag 3. SOL12-258.

Refer to:

- GP 12, How to Check a Solenoid or Clutch
- P/J303, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB. PL 12.425 Item 1.
- Booklet diverter gate solenoid, PL 12.385 Item 10.

Enter dC330 code 012-223 to run transport motor 1, MOT12-223, Figure 3. The motor runs.

- 1

Go to Flag 2. Check MOT12-223.

Refer to:

- GP 10, How to Check a Motor.
- P/J305, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- Transport motor 1, PL 12.350 Item 2.

Enter dC330 code 012-271 to run the BM flapper motor, MOT12-271, Figure 2. **The** motor runs.

Υ

Go to Flag 5. Check MOT12-271.

Refer to:

- GP 10, How to Check a Motor.
- P/J104, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB. PL 12.425 Item 1.
- BM flapper motor assembly, PL 12.390 Item 17.

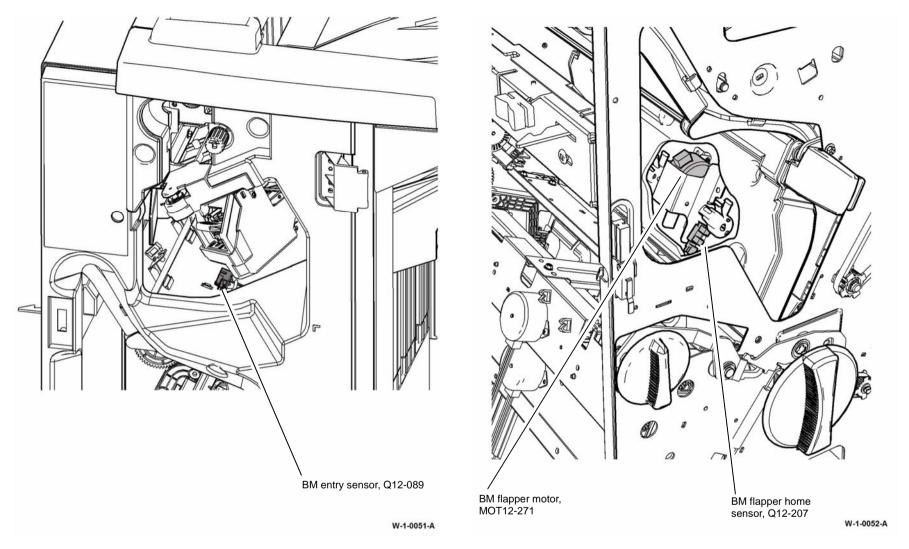


Figure 1 Component location

Figure 2 Component location

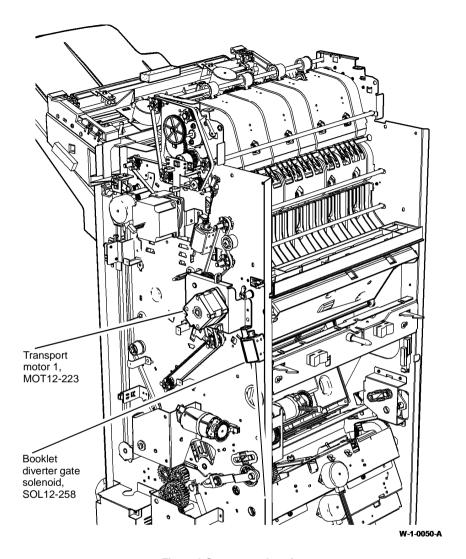


Figure 3 Component location

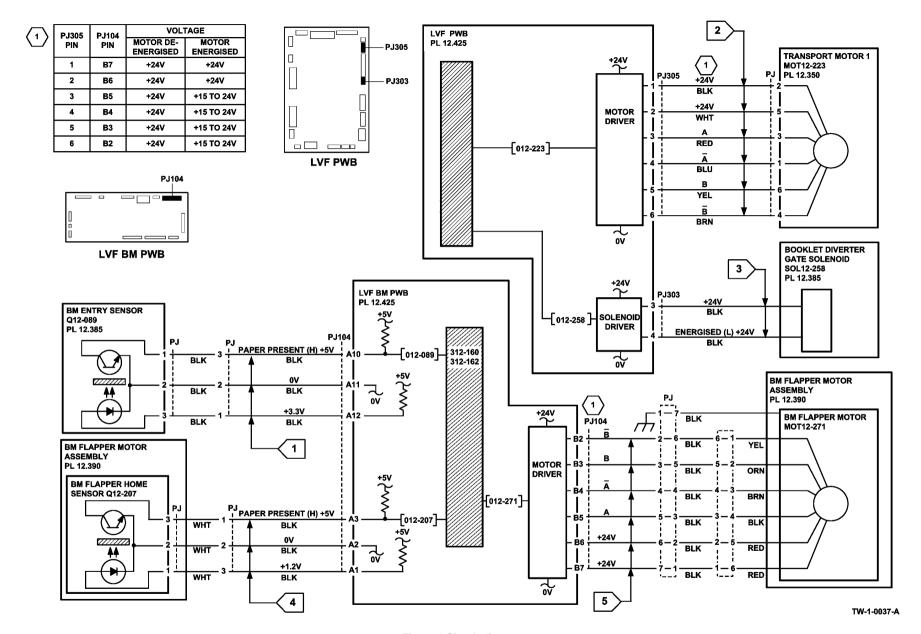


Figure 4 Circuit diagram

312-171-00-150, 312-172-00-150 Paper Exiting to Bin 0 RAP

312-171-00-150 The leading edge of the sheet was late to the top exit sensor.

312-172-100-150 The trailing edge of the sheet was late from the top exit sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the items that follow:

- LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- That the paper tray guides are set to the correct position for the size of paper in the tray.
- The tensioner on the intermediate paper drive belt. Check that the tensioner is free to move and that the tensioner pulley is free to rotate. If necessary lubricate the tensioner and tensioner pulley, REP 12.3-150. Refer to GP 18 Machine Lubrication.
- The drive pulleys on both transport motor 1 and 2 are secure and do not slip on the motor shaft.
- All the transport drive belts are correctly fitted and are in a good condition.
- All the transport rolls and idler pulleys are free to rotate.
- The exit diverter gate and linkage for free movement.
- That there are no torn paper fragments from a previous jam clearance action.

Refer to the 312H-150 Copy Damage in the LVF BM RAP and the 312G-150 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.

NOTE: Paper is diverted to bin 0 when the exit diverter solenoid is energized. Paper is fed to bin 1 when the exit diverter solenoid is de-energized.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, code 012-224 to run transport motor 2, MOT12-224, Figure 1. The motor runs.

N

Go to Flag 3. Check MOT12-224.

Refer to:

- GP 10. How to Check a Motor.
- P/J309, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Transport motor 2, PL 12.370 Item 5.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-225 to energize the exit diverter solenoid, SOL12-225, Figure 1. **The solenoid energizes.**

N

Go to Flag 2. Check SOL12-225.

Refer to:

- GP 12, How to Check a Solenoid.
- P/J306, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Exit diverter solenoid. PL 12.370 Item 12.
- LVF PWB. PL 12.425 Item 8.

Enter dC330, code 012-107, top tray exit sensor, Q12-107, Figure 1. Actuate Q12-107. **The display changes.**

N

Go to Flag 1. Check Q12-107.

Refer to:

- GP 11, How to Check a Sensor.
- P/J314. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Top tray exit sensor, PL 12.370 Item 11.
- LVF PWB. PL 12.425 Item 8.

Enter dC330, code 012-223 to run the transport motor 1, MOT12-223, Figure 1. **The** moto runs.

N

Go to Flag 4. Check MOT12-223.

Refer to:

- GP 10, How to Check a Motor.
- P/J305, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Transport motor 1, PL 12.350 Item 2.
- LVF PWB, PL 12.425 Item 8.

Perform SCP 5 Final Actions.

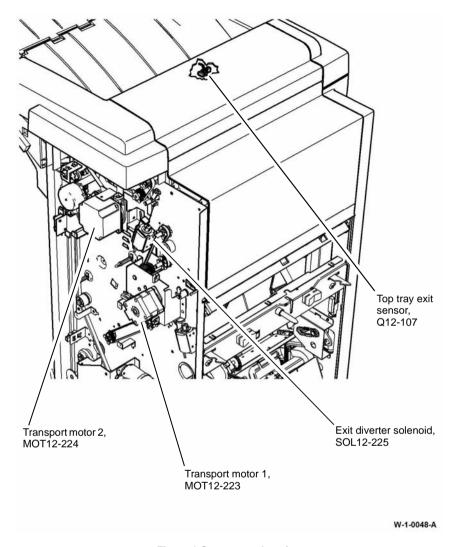


Figure 1 Component location

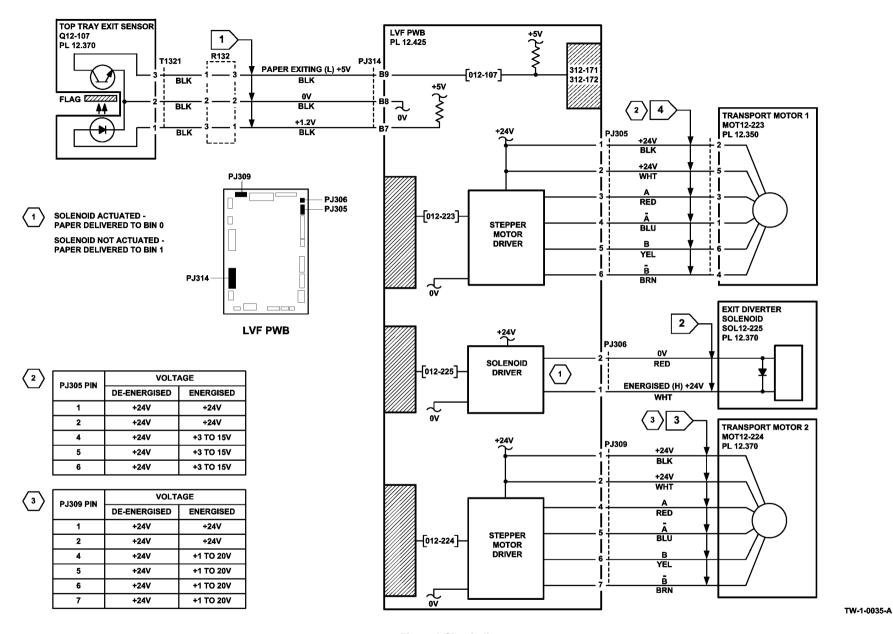


Figure 2 Circuit diagram

312-180-00-150, 312-182-00-150 Booklet Maker Exit Jam RAP

312-180-00-150 The lead edge was late arriving at the BM exit sensor.

312-182-00-150 The trail edge was late leaving the BM exit sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Turn the crease blade handle to ensure that the crease blade mechanism is free to move. if necessary, clear any paper jam in the exit area.

Procedure

Enter dC330 code 012-215, BM crease blade motor encoder sensor, Q12-215. Actuate Q12-215, Figure 2, by rotating the crease blade roll. **The display changes.**

/ N

Go to Flag 2. Check Q12-215.

Refer to:

- · GP 11, How to Check a Sensor.
- P/J104, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- BM crease blade motor encoder sensor, PL 12.405 Item 4.
- LVF BM PWB, PL 12.425 Item 1.

Release the crease roll nip pressure by moving the crease roll handle, Figure 1, fully counter clockwise. Enter dC330 code 012-216, BM crease roll motor encoder sensor, Q12-216. Actuate Q12-216, Figure 2, by rotating the crease roll handle slowly by hand. **The display changes.**

Y N

Go to Flag 1. Check Q12-216.

Refer to:

- GP 11, How to Check a Sensor.
- P/J112, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- BM crease roll motor encoder sensor, PL 12.415 Item 7.
- LVF BM PWB, PL 12.425 Item 1.

Enter dC330 code 012-213, BM exit sensor, Q12-213. Actuate Q12-213, Figure 3. **The display changes.**

N

Go to Flag 3. Check Q12-213.

A

Refer to:

- GP 11. How to Check a Sensor.
- P/J110, LVF BM PWB.
- 312D-150 LVF Power Distribution RAP.

Install new components as necessary:

- BM exit sensor, PL 12.420 Item 8.
- LVF BM PWB, PL 12,425 Item 1.

Enter dC330 code 012-253, crease roll motor, MOT12-253, Figure 2, The motor runs.

Go to Flag 4. Check MOT12-253.

Refer to:

- GP 10. How to Check a Motor.
- P/J103. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- Crease roll motor and gearbox assembly, PL 12.415 Item 10.
- LVF BM PWB, PL 12.425 Item 1.

Enter dC330 code 012-252, BM crease blade motor, MOT12-252, Figure 1. The motor runs.

- 1

Go to Flag 5. Check MOT12-252.

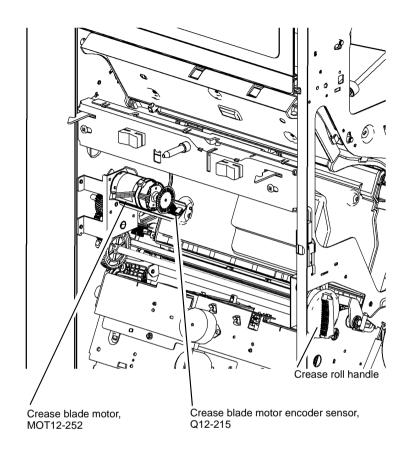
Refer to:

- GP 10, How to Check a Motor.
- P/J104. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary.

- BM crease blade motor assembly, PL 12.405 Item 13.
- LVF BM PWB. PL 12.425 Item 1.

The fault may be intermittent. Check for damaged wiring or bad connectors. If necessary repair the wiring, REP 1.2, or install new components. If necessary install a new LVF BM PWB, PL 12.425 Item 1.



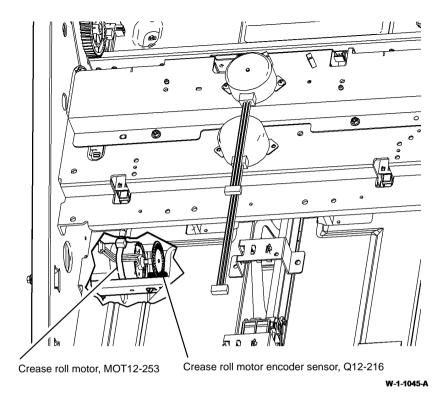
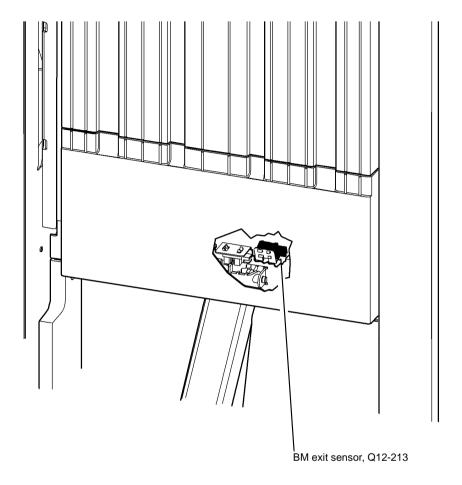


Figure 2 Component location

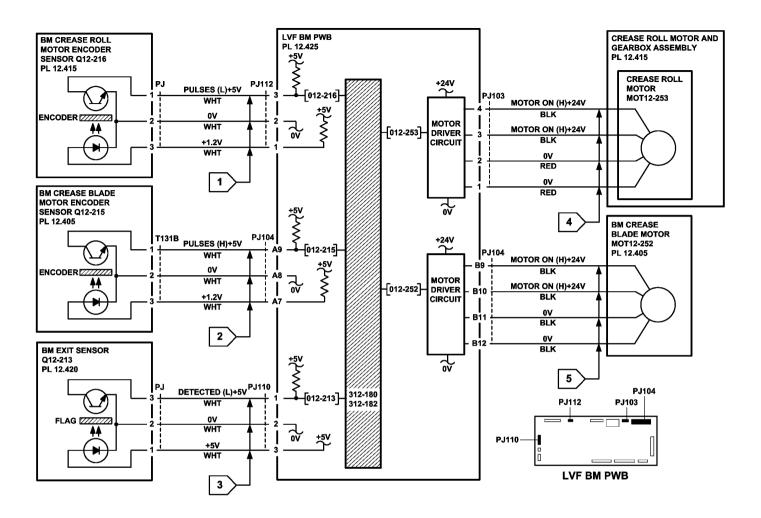
W-1-1046-A

Figure 1 Component location



W-1-1047-A

Figure 3 Component location



TW-1-0264-A

Figure 4 Circuit diagram

312-184-00-150, 312-494-00-150, 312-496-00-150 Booklet Maker Stray Sheet Detected RAP

312-184-00-150 A stray sheet is detected in the booklet maker after a jam clearance event.

312-494-00-150 A sheet was not detected at the BM staple paper detect sensor within the allowed time.

312-496-00-150 A sheet was not detected leaving the BM staple paper detect sensor within the allowed time.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check the paper path to the booklet compiler. Clear the paper path of any jams or paper debris. Ensure the compiler guide assembly is correctly latched.

Procedure

Enter dC330 code 012-089, BM entry sensor, Q12-089. Actuate Q12-089, Figure 1. **The display changes.**

N

Go to Flag 1. Check Q12-089.

Refer to:

- GP 11. How to Check a Sensor.
- P/J104, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM entry sensor, PL 12.385 Item 6.

Enter dC330 code 012-213, BM exit sensor, Q12-213. Actuate Q12-213, Figure 2. **The display changes.**

N

Go to Flag 2. Check Q12-213.

Refer to:

- GP 11. How to Check a Sensor.
- P/J110, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM exit sensor, PL 12.420 Item 8.

Enter dC330 code 012-170, BM paper present sensor. Actuate Q12-170, Figure 3. **The display changes.**

N

Go to Flag 3. Check Q12-170.

Refer to:

- GP 11, How to Check a Sensor.
- P/J108. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM paper present sensor, PL 12.380 Item 5.

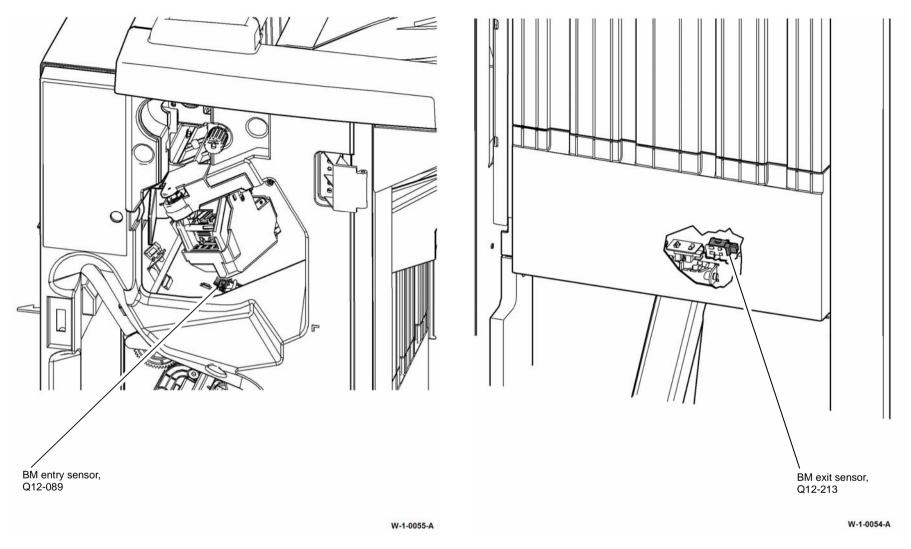


Figure 1 Component location

Figure 2 Component location

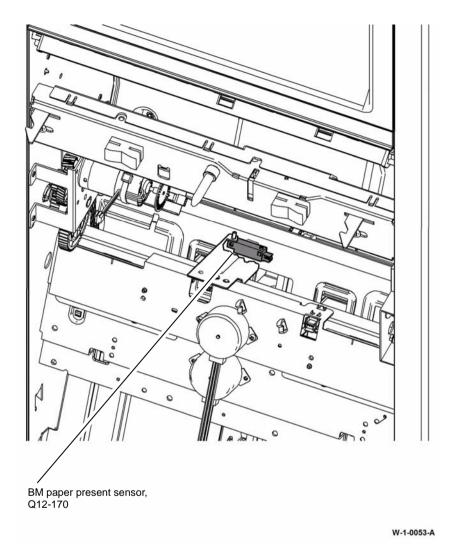


Figure 3 Component location

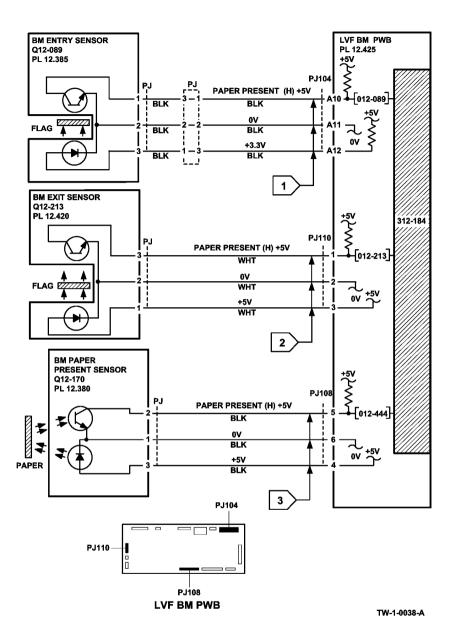


Figure 4 Circuit diagram

312-198-00-150 Finisher Stray Sheet Detected RAP

312-198-00-150 A stray sheet was detected in the finisher after jam clearance.

Initial Actions

Check the paper path in the LVF. Clear the paper path of any jams or paper debris.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Lower the paper entry guide assembly to access the entry sensor, Q12-077, Figure 1. Enter dC330, code 012-077. Actuate Q12-077. **The display changes.**

N

Go to Flag 1. Check Q12-077.

Refer to:

- GP 11, How to Check a Sensor.
- P/J304, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Entry sensor, PL 12.385 Item 7.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-078, punch sensor 1, Q12-078, Figure 2. Actuate Q12-078. **The display changes.**

' N

Go to Flag 2. Check Q12-078.

Refer to

- GP 11, How to Check a Sensor.
- P/J307, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Punch sensor 1, PL 12.330 Item 7.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-107, top tray exit sensor, Q12-107, Figure 3. Actuate Q12-107. **The display changes.**

N

Go to Flag 3. Check Q12-107.

Refer to:

- GP 11, How to Check a Sensor.
- P/J314, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Top tray exit sensor, PL 12.370 Item 11.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-106, compiler exit sensor, Q12-106, Figure 4. Actuate Q12-106. **The display changes.**

N

Go to Flag 4. Check Q12-106.

Refer to:

- GP 11, How to Check a Sensor.
- P/J314, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Compiler exit sensor, PL 12.375 Item 4.
- LVF PWB, PL 12.425 Item 8.

Perform SCP 5 Final Actions.

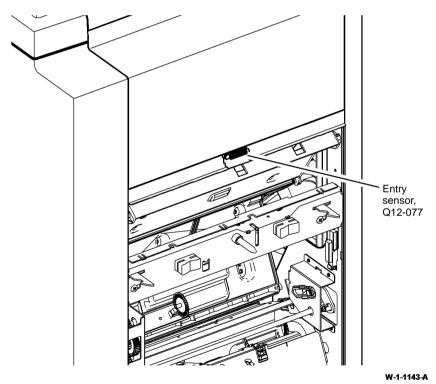
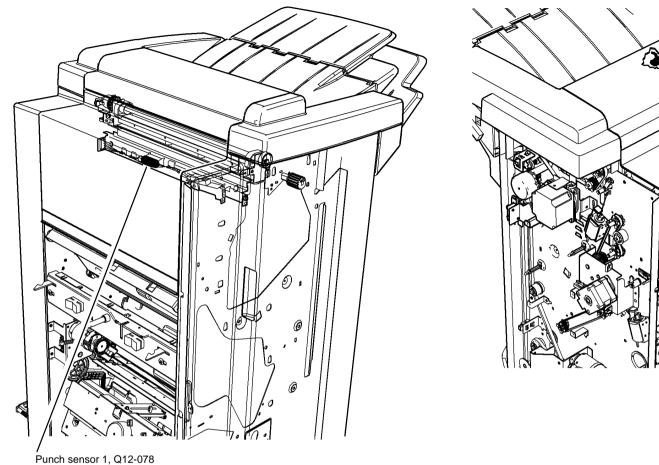
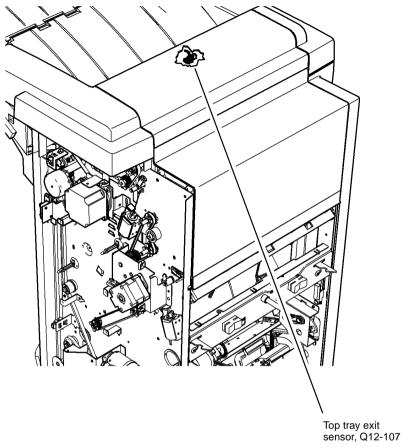


Figure 1 Component location

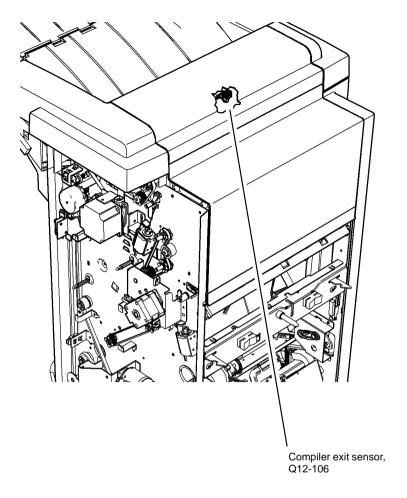




W-1-1145-A

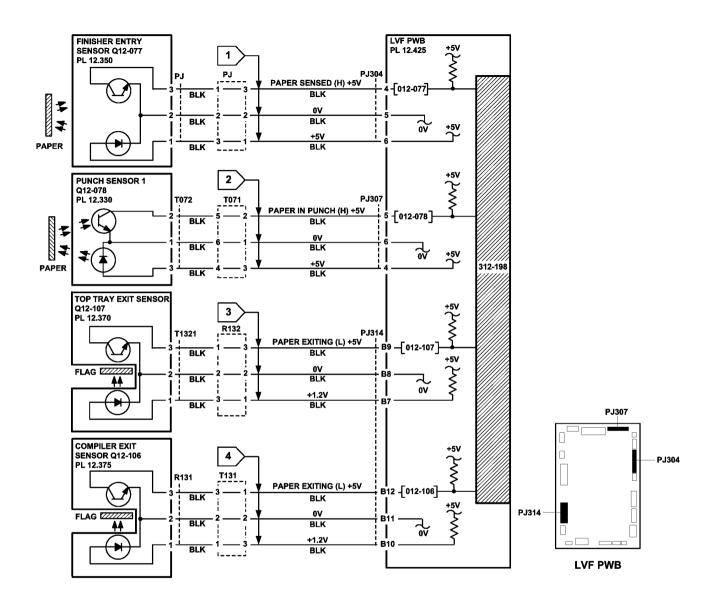
Figure 2 Component location

Figure 3 Component location



W-1-1146-A

Figure 4 Component location



TW-1-0288-A

Figure 5 Circuit diagram

312-310-00-150, 312-312-00-150, 312-313-00-150 Interlocks RAP

312-310-00-150 The LVF BM docking interlock was open during run mode.

312-312-00-150 The LVF BM top cover interlock was open during run mode.

312-313-00-150 The LVF BM front door interlock was open during run mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Check the LVF PWB DIP switch settings, refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Check the items that follow:
 - The LVF BM is docked to the machine.
 - The LVF BM front door is closed.
 - The LVF BM top cover is closed.

Procedure

Go to Flag 1. Check for +24V on P/J302 pin 1. If the voltage is not present, refer to 312D-110 LVF BM Power Distribution RAP.

Go to the appropriate RAP:

- 312-310-00-150 Docking Interlock RAP.
- 312-312-00-150 Top Cover Interlock RAP.
- 312-313-00-150 Front Door Interlock RAP.

312-310-00-150 Docking Interlock RAP

Un-dock the LVF BM, REP 12.13-150, Check the docking interlock switch, S12-177 as follows:

- Check the interlock actuator on the machine is not damaged or missing.
- Enter dC330, code 012-177, docking interlock switch, S12-177. Actuate S12-177. If the display does not change, refer to:
 - GP 13, How to Check a Switch.
 - Figure 1.
 - P/J302, LVF PWB.
- Go to Flag 1. Check the wiring between P/J302 and S12-177.
- If necessary, install a new switch, PL 12.325 Item 2.

312-312-00-150 Top Cover Interlock RAP

Check the top cover interlock switch, S12-197 as follows:

- Check the switch actuator.
- Enter dC330, code 012-197, top cover interlock switch, S12-197. Actuate S12-197. If the display does not change, refer to:
 - GP 13, How to Check a switch.
 - Figure 1.
 - P/J315, LVF PWB.
- Go to Flag 3. Check the wiring between P/J315 and S12-197.
- If necessary, install a new top cover interlock switch, PL 12.425 Item 6.

312-313-00-150 Front Door Interlock RAP

Check the front door interlock switch, S12-303 as follows:

- Check the switch actuator.
- Enter dC330, code 012-303, front door interlock switch, S12-303. Actuate S12-303. If the display does not change, refer to:
 - GP 13. How to Check a switch.
 - Figure 1.
 - P/J302, LVF PWB.
- Go to Flag 2. Check the wiring between P/J302 and S12-303.
- If necessary, install a new front door interlock switch. PL 12.425 Item 5.

Perform SCP 5 Final Actions.

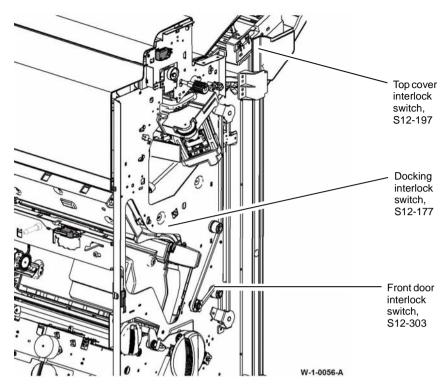


Figure 1 Component location

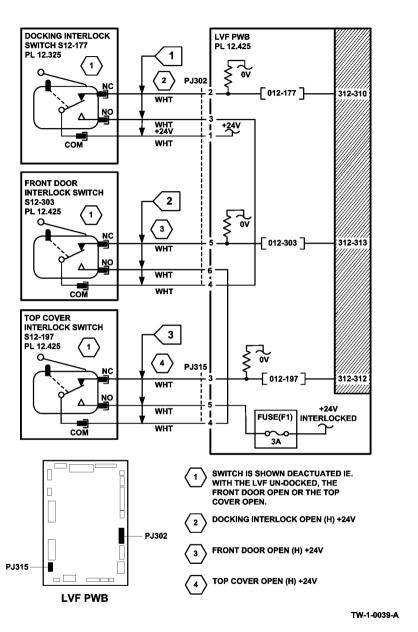


Figure 2 Circuit diagram

312-340-00-150, 312-342-00-150 Ejector Movement Failure RAP

312-340-00-150 The ejector was not at the home position.

312-342-00-150 The ejector failed to perform a cycle of operation.

NOTE: A cycle of operation for the ejector is to cycle from the home position to the out position and back to the home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Check the operation of the ejector mechanism. If the operation is noisy or sluggish, perform the 2K LCSS and LVF BM Ejector Shafts and Slide Bearings procedure in ADJ 40.1 Machine Lubrication.
- Check the LVF PWB DIP switch settings, refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Check for any obstructions that would prevent the ejector from moving.
- Check the finisher for binding and grinding noises, refer to OF1 Unusual Noise RAP.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, code 012-185, ejector out sensor, Q12-185. Actuate Q12-185. **The display changes.**

N

Go to Flag 2. Check Q12-185.

Refer to:

- GP 11 How to Check a Sensor.
- Figure 1.
- P/J304, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Ejector out sensor, PL 12.360 Item 3.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-184, ejector home sensor, Q12-184. Actuate Q12-184. **The display changes.**

N

Go to Flag 1. Check Q12-184.

Refer to:

- GP 11 How to Check a Sensor.
- Figure 1.
- P/J304, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Eiector home sensor, PL 12.360 Item 3.
- LVF PWB. PL 12.425 Item 8.

Enter dC330, code 012-236, ejector motor cycle. Check the operation of the ejector motor, MOT12-234. The motor runs.

N

Go to Flag 3. Check MOT12-234.

Refer to:

- GP 10, How to Check a Motor.
- Figure 1.
- P/J303, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or Install new components as necessary:

- Ejector assembly, PL 12.360 Item 1.
- LVF PWB. PL 12.425 Item 8.

Enter dC330, code 012-236, ejector motor cycle. Check the ejector cycles. Add the code 12-184, ejector sensor home, Q12-184. Then cycle the ejector. Add the code 12-185, ejector out sensor, Q12-185. Then cycle the ejector actuates the ejector home sensor and the ejector out sensor.

N

Refer to GP 7, check the components that follow, install new components as necessary;

- Pulley drive gear, PL 12.360 Item 8.
- Eiector belt. PL 12.360 Item 5.

The ejector cycles noisily, colliding with the end stops.

' N

Check the stapler to ensure the staples are correctly formed. Mis-formed staples can cause the set to hang in the stapler causing ejector movement failures. **The staples are correctly formed.**

Y N

Clear the staple head of any mis-formed staples. Then check the operation of the stapler. If necessary, install a new staple head unit, PL 12.365 Item 5.

If the ejector is still not moving, install a new ejector assembly, PL 12.360 Item 1. Perform SCP 5 Final Actions.

Enter dC330, code 012-096, ejector motor encoder sensor, Q12-096. Actuate Q12-096. **The display changes.**

1

Go to Flag 4. Check Q12-096.

Status Indicator RAPs 312-340-00-150, 312-342-00-150

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Refer to:

- GP 11 How to Check a Sensor.
- Figure 1.
- P/J304, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Ejector motor encoder sensor, Q12-096, PL 12.360 Item 3.
- LVF PWB, PL 12.425 Item 8.

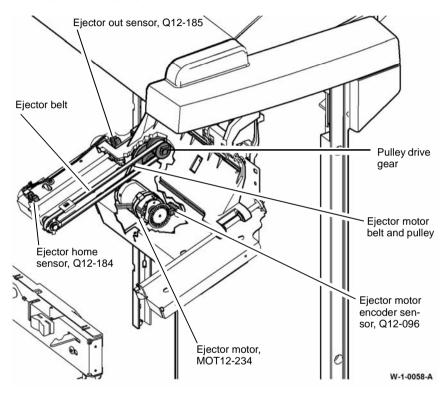
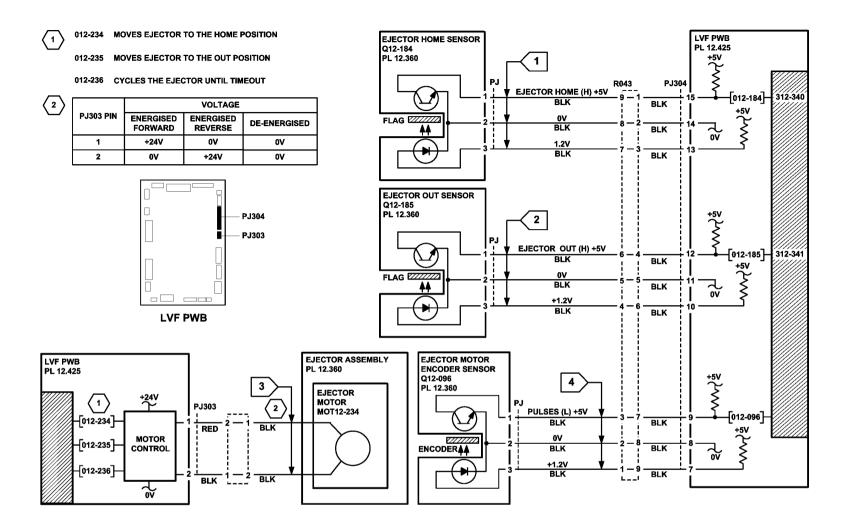


Figure 1 Component location



TW-1-0041-A

Figure 2 Circuit diagram

312-352-00-150, 312-353-00-150 Booklet Stapler Assembly Failure RAP

312-352-00-150 The rear booklet staple cartridge assembly was not correctly primed within the required time.

312-353-00-150 The front booklet staple cartridge assembly was not correctly primed within the required time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Switch off, then switch on the machine, GP 14.
- Check the LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Check the items that follow:
 - The booklet staple cartridges, Figure 1, have staples in them and are correctly installed.
 - The leading staples in the staple head have been primed, Figure 2.
 - That the sheets of staples in the cartridge are feeding one at a time. If staple sheets overlap, they will jam in the cartridge. If necessary, install a new staple cartridge, PL 12.395 Item 8.

NOTE: The term "priming" refers to 2 staples at the front of the cartridge, that have been preformed automatically by the action of the BM staple head assembly, refer to Figure 2.

NOTE: The low staples sensor, cartridge present sensor and the priming sensor for both the front and rear booklet staplers are all integral to the BM staple cartridge assembly. These sensors can be checked using component control codes but they cannot be exchanged as components.

NOTE: If the front or rear staple cartridge primed sensor does not see staples in the primed position, the staple head cycles a number of times to prime the staple head. This occurs when the LVF BM interlocks are made.

NOTE: Ensure that the staple forming plate is fully closed on both the front and rear staple cartridge assembly, Figure 3.

Procedure

Enter dC330, code 012-442, actuate the front staple cartridge primed sensor, Q12-442 by inserting a staple cartridge that has correctly primed staples, Figure 2. Then remove that cartridge and insert a cartridge that does not have primed staples. **The display changes.**

N

Go to Flag 1. Check Q12-442.

Refer to:

- GP 11, How to Check a Sensor.
- P/J111. LVF PWB.

• 312D-150 LVF BM Power Distribution RAP.

REP 1.2 Wiring Harness.

Repair or install new components as necessary:

- LVF PWB. PL 12.425 Item 8.
- BM staple cartridge assembly, PL 12.395 Item 8.

Enter dC330, code 012-443, actuate the rear staple cartridge primed sensor, Q12-443 by inserting a staple cartridge that has correctly primed staples, Figure 2. Then remove that cartridge and insert a cartridge that does not have primed staples. **The display changes.**

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Go to Flag 2. Check Q12-443.

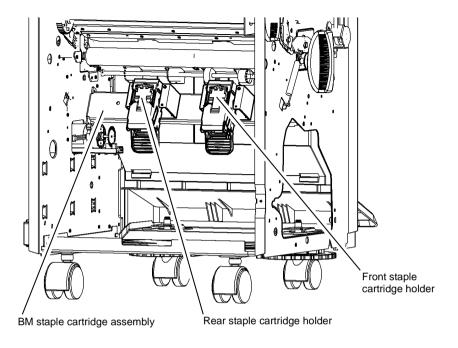
Refer to:

- GP 11, How to Check a Sensor.
- P/J111. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.
- REP 1.2 Wiring Harness.

Repair or install new components as necessary:

- LVF PWB. PL 12.425 Item 8.
- BM staple cartridge assembly, PL 12.395 Item 8.

The fault may be intermittent. Check for damaged wiring or connectors. If necessary repair the wiring, REP 1.2, or install new components.



NOTE: The back stop assembly, BM stapler assembly and booklet tamper assembly have been removed for clarity.

W-1-0064-A

Figure 1 Component location

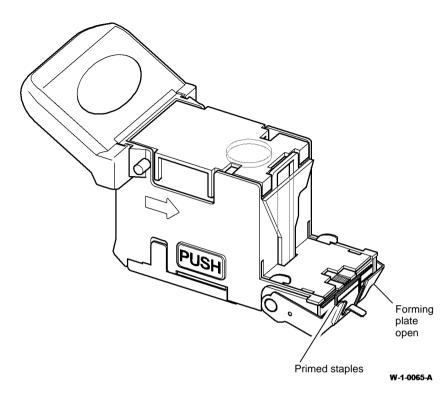
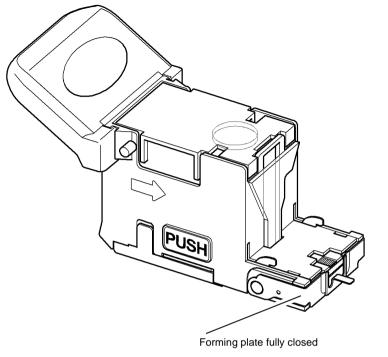


Figure 2 Staple cartridge open



W-1-0066-A

Figure 3 Staple cartridge closed

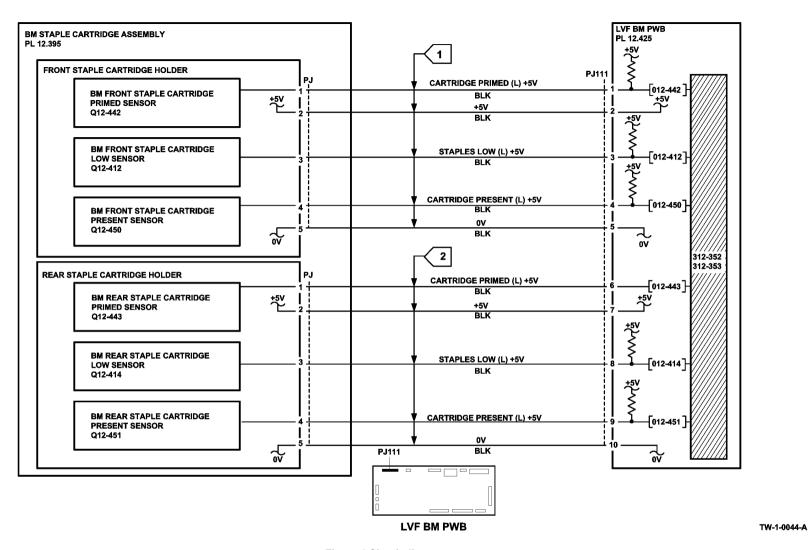


Figure 4 Circuit diagram

312-371-00-150, 312-372-00-150, 312-378-00-150 Staple Head Unit Movement Failure RAP

312-371-00-150 The staple head unit fails to move.

312-372-00-150 The staple head unit was not at the home position.

312-378-00 The staple head unit was not indexed correctly.

NOTE: The home position is when the staple head unit is at the corner stapling position (fully to the front of the LVF BM and rotated through 45 degrees).

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Check the LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Un-dock the LVF BM from the machine, REP 12.13-150. Move the ejector assembly fully
 to the right. Manually move the stapler unit along the full length of the track using the
 green thumb-wheel. Check the home sensor flag and the 2 dual position flags for damage, see NOTE. Check for damage or obstructions that would prevent the stapling unit
 from moving. If necessary, install a new staple head unit, PL 12.365 Item 5 or a new stapler traverse assembly, PL 12.365 Item 1.

NOTE: For dual position stapling, the stapler index sensor uses 2 flags.

Dock the LVF BM to the machine.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, code 012-234, ejector motor home, MOT12-234, to move the ejector assembly fully to the right. Enter code 012-250, SU1 motor cycle. **The stapling unit cycles back and forth along the track.**

N

Go to Flag 3. Check SU1 motor, MOT12-249.

- Refer to:
- GP 10, How to Check a Motor.
- Figure 1.
- P/J308, LVF PWB.
- 312D-150, LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Stapler traverse assembly, PL 12.365 Item 1.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-135, staple home sensor, Q12-135. Actuate Q12-135, by moving the stapler unit to and from the home position using the green thumb-wheel. **The display changes.**

/ N

Go to Flag 1. Check Q12-135.

Refer to:

- GP 11. How to check a sensor.
- Figure 1.
- P/J308, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Staple home sensor, PL 12.365 Item 3.
- LVF PWB, PL 12.425 Item 8.

Enter dC330, code 012-234, ejector motor, MOT12-234, to move the ejector assembly fully to the right. Enter code 012-168, stapler index sensor, Q12-168. Actuate Q12-168, by moving the stapler unit to and from the flag position (approximately 115mm (4.5 inches) from the front of the track) using the green thumb-wheel. **The display changes.**

· •

Go to Flag 2. Check Q12-168.

Refer to:

- GP 11 How to Check a Sensor.
- P/J308, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Stapler index sensor, PL 12.365 Item 3.
- LVF PWB. PL 12.425 Item 8.

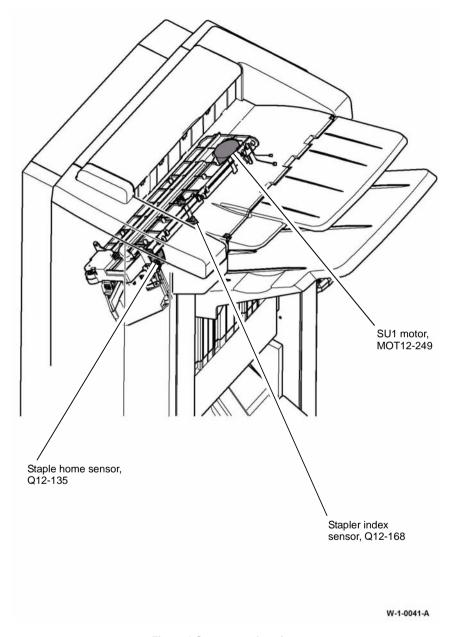
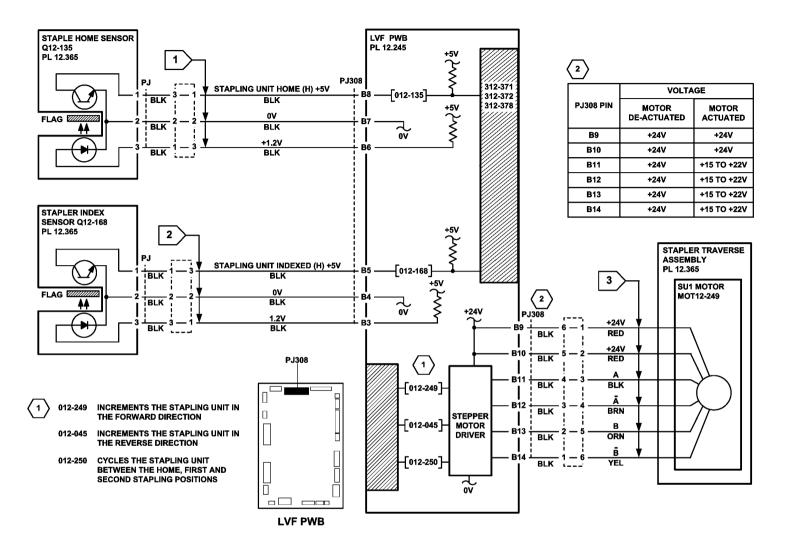


Figure 1 Component location



TW-1-0028-A

Figure 2 Circuit diagram

312-377-00-150 Stapling Failure RAP

312-377-00-150 Staples in the staple head unit were not primed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Switch off, then switch on the machine, GP 14.
- Check the LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Check the items that follow:
 - The staple cartridge has staples in it and is correctly installed.
 - The leading staples in the staple head have been primed, Figure 2.
 - That the sheets of staples in the cartridge are feeding one at a time. If staple sheets overlap, they will jam in the cartridge. If necessary, install a new staple cartridge, PL 12.365 Item 7.

NOTE: The term "priming" refers to 2 staples at the front of the cartridge, that have been preformed automatically by the action of the stapler, refer to Figure 2.

NOTE: The SH1 low staples sensor, SH1 cartridge sensor, SH1 jaw home sensor and the SH1 priming sensor are all integral to the staple head unit. These sensors can be checked using component control codes, but they cannot be exchanged as components.

Procedure

Enter dC330, code 012-196, SH1 paper sensor, Q12-196. Actuate Q12-196. **The display changes.**

N N

Go to Flag 1. Check Q12-196.

Refer to:

- Figure 1.
- GP 11, How to Check a Sensor.
- P/J308, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- SH1 paper sensor, PL 12.365 Item 4.
- LVF PWB, PL 12.425 Item 8.

NOTE: If the SH1 priming sensor does not see staples in the primed position, the staple head cycles a number of times to prime the staple head. This occurs when the LVF BM interlocks are made.

Follow the customer instruction label inside the LVF BM front door to remove the staple cartridge. Slide out the top sheet of staples from the cartridge to expose a new sheet of staples on the top of the stack. Ensure the forming plate is fully closed, Figure 3. Install the staple cartridge and close the door. The stapler will now cycle a few times to feed and prime the new sheet of staples. Open the door and remove the staple cartridge. Examine the sheet of staples that have been fed to the staple forming part of the stapler by opening the forming plate, Figure 2. The first 2 staples have been partially formed.

Y N

Install a new staple cartridge, PL 12.365 Item 7 and repeat the check. If the first 2 staples are not partially formed, install a new staple head unit, PL 12.365 Item 5. Perform SCP 5 Final Actions.

Install a new staple head unit, PL 12.365 Item 5. Perform SCP 5 Final Actions.

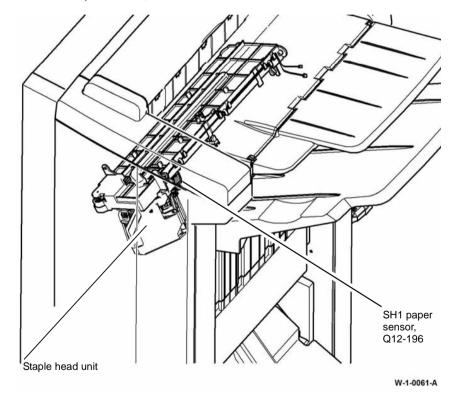
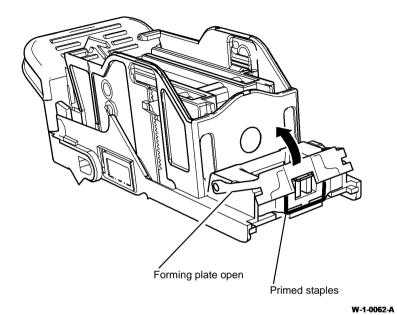


Figure 1 Component location

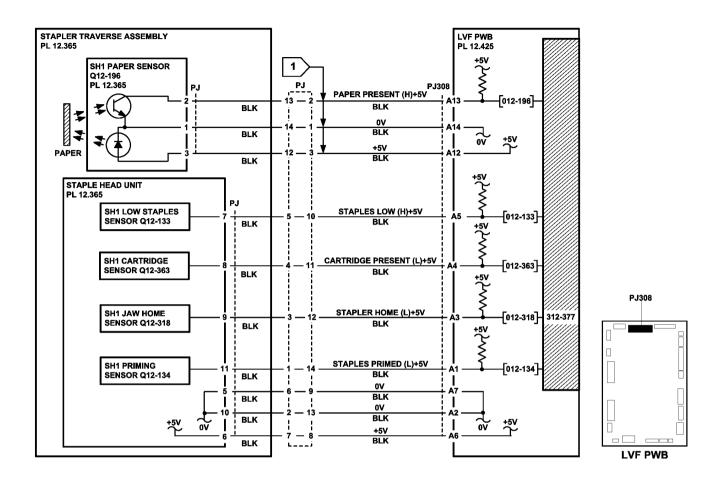


Forming plate fully closed

W-1-0063-A

Figure 2 Staple cartridge open

Figure 3 Staple cartridge closed



TW-1-0043-A

Figure 4 Circuit diagram

312-392-00-150, 312-393-00-150, 312-394-00-150 Front Tamper Move Failure RAP

312-392-00-150 The front tamper failed to move to the front position.

312-393-00-150 The front tamper failed to move to the rear position.

312-394-00-150 The front tamper was not at the rear home position.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Figure 1. Check for damage or obstructions that would prevent the tamper assembly from operating correctly. If necessary, install a new tamper assembly, PL 12.355 Item 1.
- Jams can be caused by removing prints from bin 1 before the machine has finished printing. If the tampers are touched while they are moving, they may stall and cause the machine to shutdown. The resulting shutdown can cause un-clearable jams in the finisher and the tray 3 and tray 4 to paper path interface.
- Jams can also be caused if the tray settings do not match the paper in the trays. Ensure
 the tray settings are correct.
- Check the condition and the tension of the front tamper drive belt. Tensioning is achieved by a spring on the motor, the motor should be free to move.
- If there is a large jam of paper above bin 1 that has obstructed the tampers, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.
 Perform the steps that follow:
 - Check the paper for defects that could degrade the tamping operation e.g. curl, paper condition, buckling or paper type. Refer to IQ1 Image Quality Entry RAP.
 - Check the operation of the paddle roll, refer to 312-024-00-150, 312-025-00-150
 Paddle Roll Failure RAP.
 - Check the operation of the bin 1 upper level sensor, refer to 312-462-00-150 Bin 1 Movement Failure RAP.
 - Refer to the 312G-150 LVF BM Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - Check the LVF PWB DIP switch settings, refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, codes 012-226, front tamper home and 012-228, front tamper move alternately, Figure 1. The front tamper moves between the home and inboard positions.

N

Go to Flag 3. Check the front tamper motor, MOT12-226.

Refer to:

- GP 10 How to Check a Motor.
- P/J312. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Tamper assembly, PL 12.355 Item 1.
- LVF PWB, PL 12.425 Item 8.

Enter dC330 code 012-180, front tamper home sensor, Q12-180, Figure 1. Actuate Q12-180. **The display changes.**

N

Go to Flag 1. Check Q12-180.

Refer to:

- GP 11 How to Check a Sensor.
- P/J312, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Front tamper home sensor, PL 12.355 Item 3.
- LVF PWB. PL 12.425 Item 8.

Enter dC330 code 012-182, front tamper away sensor, Q12-182, Figure 1. Actuate Q12-182. **The display changes.**

N

Go to Flag 2. Check Q12-182.

Refer to:

- GP 11 How to check a Sensor.
- P/J312, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Front tamper away sensor, PL 12.355 Item 3.
- LVF PWB. PL 12.425 Item 8.

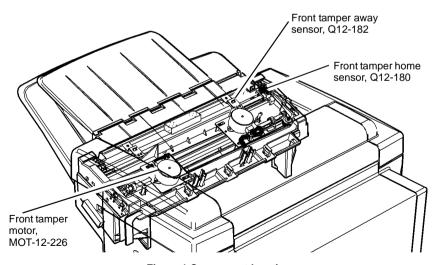
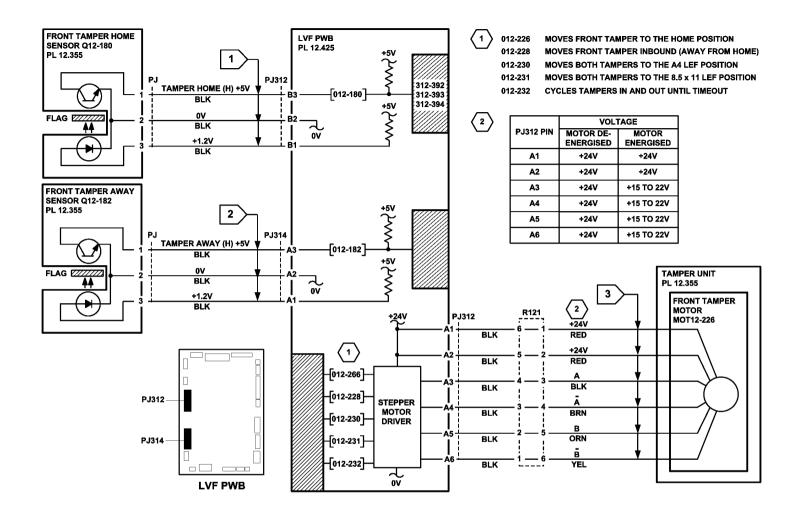


Figure 1 Component location



TW-1-0022-A

Figure 2 Circuit diagram

312-396-00-150, 312-397-00-150, 312-398-00-150 Rear Tamper Move Failure RAP

312-396-00-150 The rear tamper failed to move from the home position.

312-397-00-150 The rear tamper failed to return to the home position.

312-398-00-150 The rear tamper failed to move from the away from home position.

NOTE: The away home position is with the rear tamper approximately halfway along it's travel.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Figure 1. Check for damage or obstructions that would prevent the tamper assembly from operating correctly. If necessary, install a new tamper assembly, PL 12.355 Item 1.
- Jams can be caused by removing prints from bin 1 before the machine has finished printing. If the tampers are touched while they are moving, they may stall and cause the machine to shutdown. The resulting shutdown can cause un-clearable jams in the finisher and the tray 3 and tray 4 to paper path interface.
- Jams can also be caused if the tray settings do not match the paper in the trays. Ensure
 the tray settings are correct.
- Check the condition of the front tamper drive belt and that it is correctly tensioned. Tensioning is achieved by a spring on the motor, the motor should be free to move.
- If there is a large jam of paper above bin 1 that has obstructed the tampers, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.
 Perform the steps that follow:
 - Check the paper for defects that could degrade the tamping operation e.g. curl, paper condition, buckling or paper type. Refer to IQ1 Image Quality Entry RAP.
 - Check the operation of the paddle roll, refer to 312-024-00-150, 312-025-00-150
 Paddle Roll Failure RAP.
 - Check the operation of the bin 1 upper level sensor, refer to 312-462-00-150 Bin 1 Movement Failure RAP.
 - Refer to the 312G-150 LVF BM Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
 - Check the LVF PWB DIP switch settings, refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Enter dC330, codes 12-227, rear tamper home and 12-229, rear tamper move alternately, Figure 1. The rear tamper moves between the home and inboard positions.

Y

Go to Flag 3. Check the rear tamper motor, MOT12-227.

Refer to:

- GP 10. How to Check a Motor.
- P/J312, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Tamper assembly, PL 12.355 Item 1.
- LVF PWB, PL 12.425 Item 8.

Enter dC330 code 012-181, rear tamper home sensor, Q12-181, Figure 1. Actuate Q12-181. **The display changes.**

N

Go to Flag 1. Check Q12-181.

Refer to:

- GP 11, How to Check a Sensor.
- P/J312, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Rear tamper home sensor, PL 12.355 Item 3.
- LVF PWB. PL 12.425 Item 8.

NOTE: The away position is used for short edge feed small paper. This saves unnecessary rear tamper travel.

Enter dC330, code 012-183, rear tamper away sensor, Figure 1, Q12-183. Actuate Q12-183. **The display changes.**

Y N

Go to Flag 2. Check Q12-183.

Refer to:

- GP 11, How to Check a Sensor.
- P/J312, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Rear tamper away sensor, PL 12.355 Item 3.
- LVF PWB. PL 12.425 Item 8.

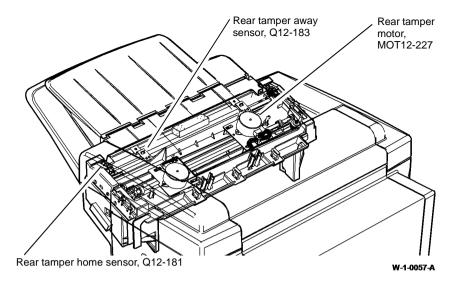


Figure 1 Component Location

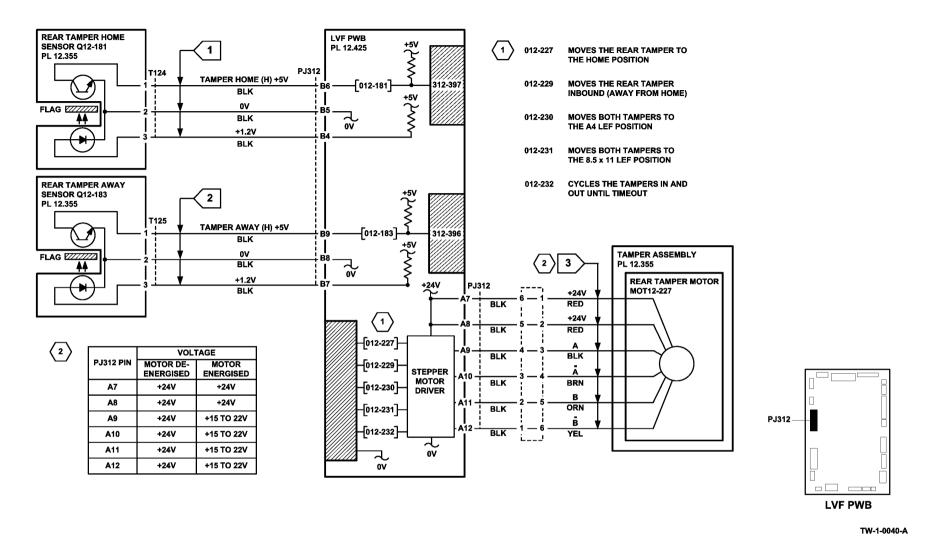


Figure 2 Circuit diagram

312-418-00-150 Flapper Failure RAP

312-418-00-150 The booklet compiler flapper has failed.

Initial Actions



Keep away from the crease blade mechanism when working in close proximity to the booklet maker while the machine is powered on. The crease blade mechanism activates quickly and with great force.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Check the booklet maker compiler guide assembly for damage, PL 12.390 Item 1. If necessary install new components.

Procedure

Enter dC330 code 012-207, flapper home sensor, Q12-207, Figure 1. Q12-207. **The display changes.**

N

Go to Flag 1. Check Q12-207.

Refer to:

- GP 11, How to Check a Sensor.
- P/J104, LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM flapper motor assembly, PL 12.390 Item 17.

Enter dC330 code 012-271 to run the BM flapper motor, MOT12-271, Figure 1. **The motor runs.**

N

Go to Flag 2, Check MOT12-271.

Refer to:

- GP 10, How to Check a Motor.
- P/J104. LVF BM PWB.
- 312D-150 LVF BM Power Distribution RAP.

Install new components as necessary:

- LVF BM PWB, PL 12.425 Item 1.
- BM flapper motor assembly, PL 12.390 Item 17.

The fault may be intermittent. Check for damaged wiring or connectors. If necessary repair the wiring, REP 1.2, or install new components.

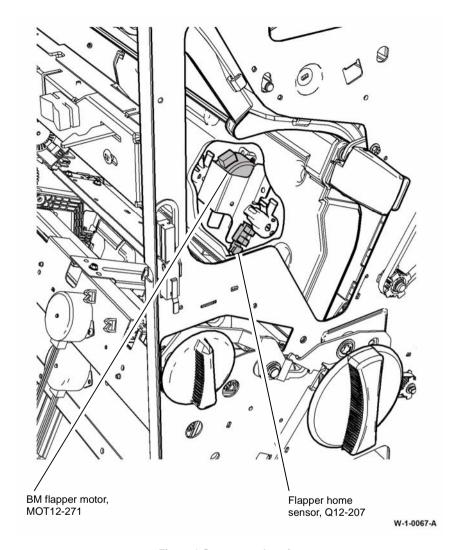


Figure 1 Component location

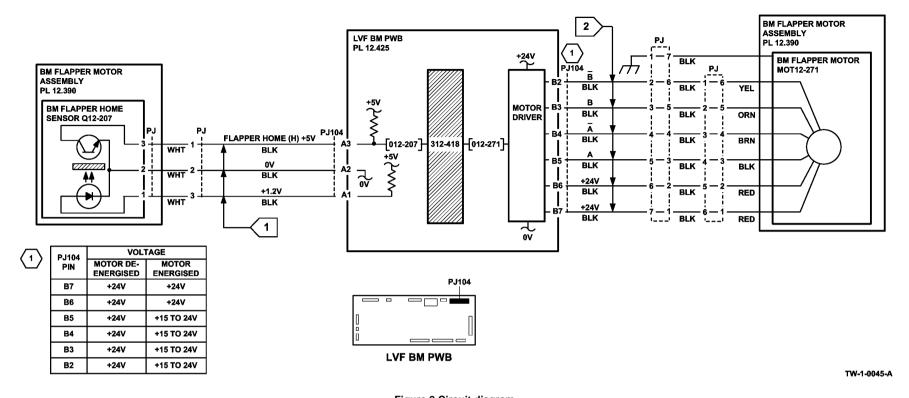


Figure 2 Circuit diagram

312-462-00-150 Bin 1 Movement Failure RAP

312-462-00-150 Bin 1 failed to move.

NOTE: The home position of bin 1 is when the bin is just lower than the bin 1 upper level sensor. See the final actions at the end of the procedure.

TWO sensors and 2 switches monitor the level of paper in bin 1 and the position of the tray:

- The bin 1 upper level sensor, detects the top of the paper stack in bin 1, or the empty bin 1, Figure 1.
- The bin 1 90% full sensor detects when the tray has descended to a position where the tray is 90% full, Figure 2.
- Bin 1 upper limit switch, S12-190, Figure 2.
- Bin 1 lower limit switch, S12-191, Figure 2.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check for a physical obstruction that would prevent bin 1 from moving, such as an item of furniture.
- Check that bin 1 is level front to back, if necessary perform ADJ 12.1-150 LVF BM Bin 1 Level.
- Check the LVF PWB DIP switch settings, refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- Refer to the 312G-150 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP.
- If there is a large jam of paper above bin 1, this has probably been caused by poorly stacked sets failing to actuate the bin 1 upper level sensor.
- Check the front and rear bin 1 drive belts. If necessary install new components, PL 12.340 Item 1.

Perform the relevant check:

- If paper is overflowing the tray when it is at the lower limit, check the bin 1 90% full sensor, Q12-187.
- If paper cannot be fed to bin 1 when it is at the highest position, check the bin 1 upper level sensor, Q12-188.

Procedure

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Remove the LVF BM rear cover. Enter dC330 code 012-163, bin 1 motor encoder sensor, Q12-163, Figure 2. Slowly rotate the encoder disk by hand. **The display changes.**

N

Go to Flag 2. Check Q12-163.

Refer to:

GP 11 How to Check a Sensor.

- P/J304. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Bin 1 motor encoder sensor, PL 12.340 Item 5.
- LVF PWB, PL 12.425 Item 8.

Enter dC330 code 012-242, bin 1 elevator motor cycle. Bin 1 cycles down and up.

Go to Flag 1. Check bin 1 elevator motor MOT12-241.

Refer to:

- GP 10 How to Check a Motor.
- P/J318, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Bin 1 elevator motor, PL 12.340 Item 7.
- LVF PWB. PL 12.425 Item 8.

Figure 1, enter dC330, code 012-188, bin 1 upper level sensor, Q12-188, Figure 1. Actuate Q12-188. The display changes.

N

Go to Flag 3. Check Q12-188.

Refer to:

- GP 11 How to Check a Sensor.
- P/J314. LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.
- REP 12.3-150 LVF BM Un-docking.

Repair or install new components as necessary:

- Bin 1 upper level sensor, PL 12.345 Item 3.
- LVF PWB, PL 12.425 Item 8.

Figure 2. Enter dC330 code 012-190, bin 1 upper limit switch, S12-190, Figure 2. Actuate S12-190. **The display changes.**

Go to Flag 4. Check S12-190.

Refer to:

- GP 13 How to Check a Switch.
- P/J315, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Bin 1 upper limit switch, PL 12.340 Item 3.
- LVF PWB. PL 12.425 Item 8.

Enter dC330 code 012-191, bin 1 lower limit switch, S12-191, Figure 2. Actuate S12-190. **The display changes.**

N

Go to Flag 5. Check S12-191.

В

Refer to:

- GP 13 How to Check a Switch.
- P/J314, LVF PWB.
- 312D-150 LVF BM Power Distribution RAP.
- REP 12.13-110 LVF BM Un-docking.

Repair or install new components as necessary:

- Bin 1 lower limit switch, PL 12.345 Item 1.
- LVF PWB. PL 12.425 Item 8.

Enter dC330 code 012-187, bin 1 90% full sensor, Q12-187, Figure 2. Actuate Q12-187. **The display changes.**

N

Go to Flag 6. Check Q12-187.

Refer to:

- GP 11 How to Check a Sensor.
- P/J316, LVF PWB.
- 312D-150, LVF BM Power Distribution RAP.

Repair or install new components as necessary:

- Bin 1 90% full sensor, PL 12.340 Item 5.
- LVF PWB, PL 12.425 Item 8.

As final actions, check the sequence of operation:

- Paper is delivered to the tray until the bin 1 upper level sensor, Q12-188 is actuated.
- The bin 1 elevator motor, MOT12-241 lowers the tray until the bin 1 upper level sensor, Q12-188 is de-actuated.
- 3. The bin 1 elevator motor, MOT12-241 raises the tray until the paper stack height actuates the bin 1 upper level sensor, then MOT12-241 lowers the tray to continue the cycle.
- 4. When the tray is emptied, the tray returns to the home position. The tray is elevated until the bin 1 upper level sensor, Q12-188 is made. The tray is then lowered until Q12-188 is just cleared. In the home position the bin 1 upper limit switch, S12-190 is actuated.

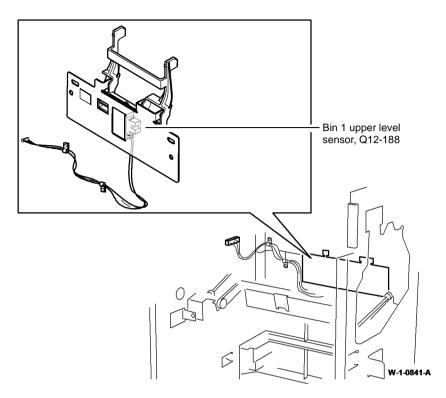


Figure 1 Component location

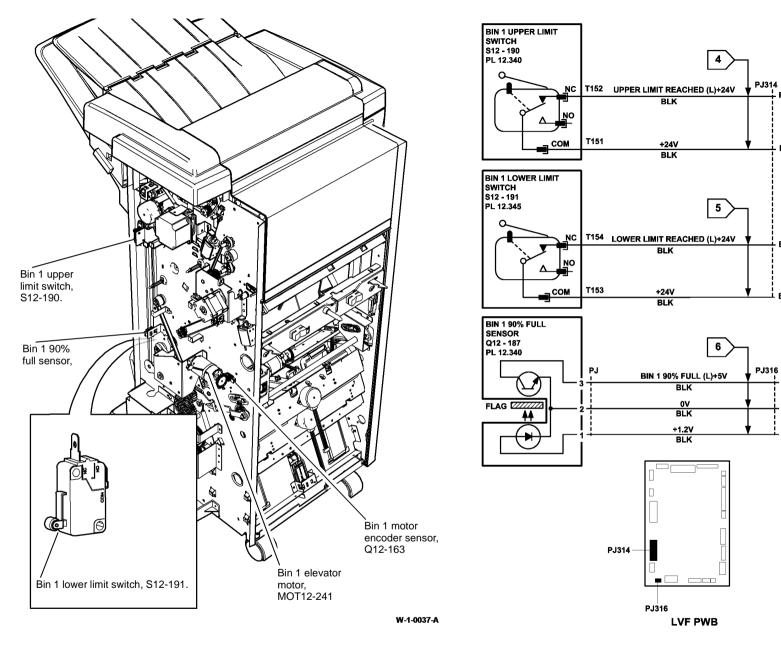


Figure 2 Component location

Figure 3 Circuit diagram

TW-1-0024-A

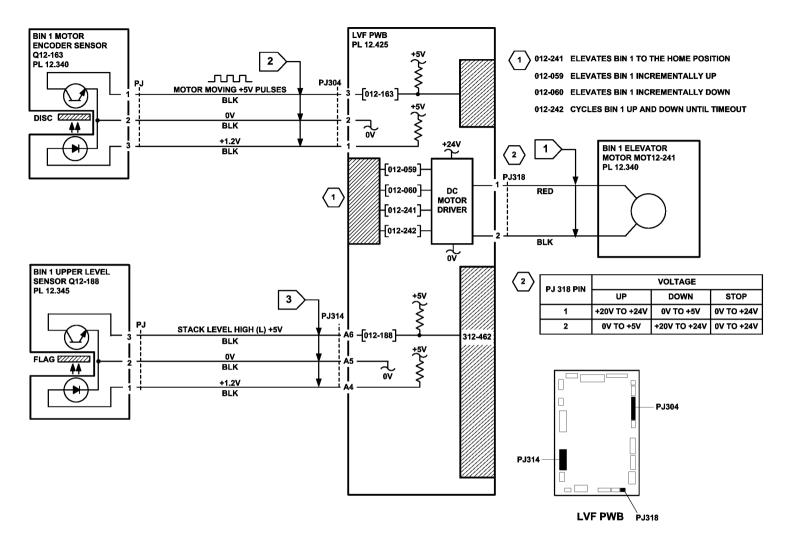
LVF PWB PL 12.425

B6 - 012-190 -

B3 - 012-191

--[012-187²

~ 8 312-462



TW-1-0025-A

Figure 4 Circuit diagram

312-492-00-150 Finisher Communication Failure

312-492-00-110 CDI communications failure with the 2K LCSS.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Figure 2, ensure the finisher power cord is connected to PJ652 on the LVPS.
- Switch off, then switch on the machine, GP 14.
- Check the fault history for 303-XXX fault codes. If the 303-XXX fault codes occur randomly, the cause may be due to electrical noise. Perform the OF10 intermittent Failure RAP.
- Check the LVF PWB and LVF BM PWB DIP switch settings. Refer to 312F-150 LVF PWB DIP Switch Settings RAP.
- Perform REP 12.13-150 LVF BM Un-docking. Check that the docking actuator, PL 12.325 Item 8 is correctly installed.

Procedure

Remove fuse F1 from the LVF PWB. Check the fuse, PL 12.425 Item 3. The fuse is good.

Υ

Install a new LVF PWB, PL 12.425 Item 8.

Re-install fuse F1. Observe the software heartbeat LED (LED 1) on the LVF PWB, Figure 2. LED 1 is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).

Y N

If LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off) this indicates that the finisher software is corrupt. Reload the finisher software, GP 4. If necessary install a new LVF PWB, PL 12.425 Item 8.

Observe the software heartbeat LED (LED 1) on the LVF BM PWB, Figure 2. **LED 1** is flashing at 1Hz (0.5 seconds on, 0.5 seconds off).

N

If LED 1 is flashing at 0.25Hz (2 seconds on, 2 seconds off) this indicates that the booklet maker software is corrupt. Reload the finisher software, GP 4. If necessary install a new LVF BM PWB, PL 12.425 Item 1.

Go to Flag 4. Check the wiring and connectors between P/J101 and P/J401. **The wiring and connectors are good.**

Y N

Repair the wiring or connectors, REP 1.2.

Go to Flag 1, Flag 2 and Flag 3. Check the wiring and connectors between P/J772, P/J996 and P/J301. **The wiring and connectors are good.**

/ N

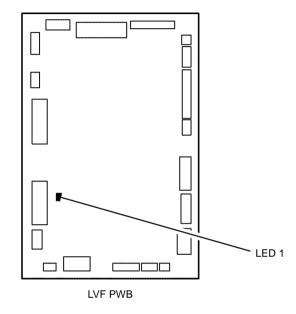
Repair the wiring or connectors, REP 1.2.

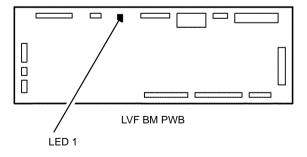
Perform the steps that follow:

Go to the 312D-150 LVF Power Distribution RAP. Check the +5V and +24V supply from the power supply module to the LVF PWB. Ensure that the voltages are steady.

Ensure that there is good ground continuity between the power supply module, PL 12.425 ltem 2 and the LVF BM frame. Install new components as necessary:

- Power supply module, PL 12.425 Item 2.
- LVF PWB, PL 12.425 Item 8.
- Reload the software using the forced AltBoot procedure, GP 4.
- The OF7 IOT PWB Diagnostics RAP.



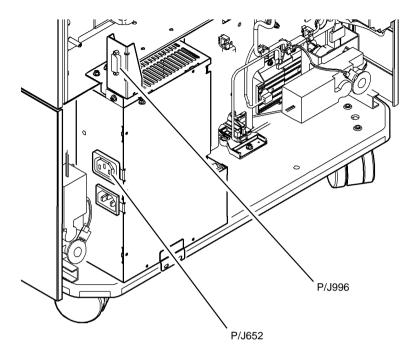


W-1-1471-A

Figure 1 LED 1 locations

Status Indicator RAPs **312-492-00-150**

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W-1-1469-A

Figure 2 P/J652 and P/J996 locations

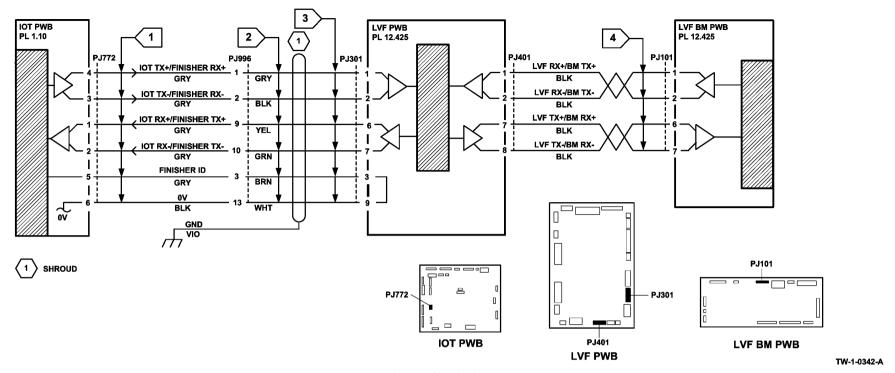


Figure 3 Circuit diagram

312A-150 Poor Stacking RAP

Use this RAP to find the cause of poor stacking in the LVF BM.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the items that follow;

- Look for sets that are not dropping back fully in bin 1 and therefore not operating the bin 1 level sensors:
 - Large paper sizes should not be stacked on top of small paper sizes.
 - Ensure that the paper stack in each paper tray has been fanned.
 - Turn over the paper stack in each paper tray.
 - Ensure that all paper or other copy stock being used is within the size and weight specifications. Refer to GP 20 Paper and Media Size Specifications.
 - Use a new ream of paper, if available.
 - Ensure that the edge guides of all paper trays are adjusted correctly for the paper size and that the trays are fully closed.
 - Check that bin 1 is seated correctly and the bin 1 alignment clip is in position, PL 12.320 Item 12.
- Labels must not be fed to bin 1, but to bin 0 only.
- It is recommended that transparencies are fed to bin 0 whenever possible.
- Check that bin 1 is level front to back. If necessary perform ADJ 12.1-150 LVF BM Bin 1 Level.
- Check that the bin 1 upper level sensor, Q12-188 is working correctly. Refer to the 312-462-00-150 LVF BM Bin 1 Movement Failure RAP.
- Check the operation of the front and rear tampers. Refer to the 312-392-00-150, 312-393-00-150, 312-394-00-150 LVF BM Front Tamper Move Failure RAP and 312-396-00-150, 312-397-00-150, 312-398-00-150 LVF BM Rear Tamper Move Failure RAP.
- Check that the LVF BM is not near an air conditioning or ventilation output duct. Air flow across the output bins can cause poor stacking.
- Check the output copies/prints for curl. Refer to the IQ5 Print Damage RAP.

312B-150 Bin 1 Overload RAP

Use this RAP to resolve a fault on the bin 1 90% full sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC330, code 012-187, bin 1 90% full sensor, Q12-187. Actuate Q12-187. **The display changes.**

Ń

Go to Flag 1. Check Q12-187.

Refer to:

- GP 11. How to Check a sensor.
- Figure 1.
- P/J316. LVF PWB.
- 312D-150 LVF BM Power Generation RAP.

Repair or install new components as necessary:

- Bin 1 90% full sensor, PL 12.340 Item 5.
- LVF PWB. PL 12.425 Item 8.

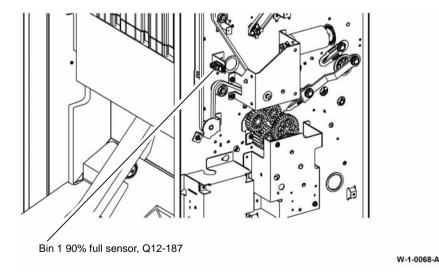
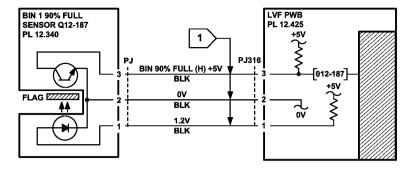
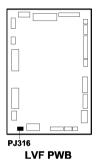


Figure 1 Component location





TW-1-0046-A

Figure 2 Circuit diagram

312C-150 LVF BM Initialization Failure RAP

When an initialization command is received from the machine, the units are initialized in 2 stages:

- The units that follow are initialized sequentially:
 - 1. If the staple head is not at the home position, it is driven to the home position.
 - 2. If the staple head unit is not at the home position, it is driven to the home position.
 - 3. If the ejector is not at the home position, it is driven to the home position.
- The units that follow are then initialized simultaneously:
 - If the front tamper is not at the home position, it is driven to the home position.
 - If the rear tamper is not at the home position, it is driven to the home position.
 - If the hole punch is not at the home position, it is driven to the home position.
 - If the paddle wheel is not at the home position, it is driven to the home position.
 - If the stacker is not at the home position, it is driven to the home position.

NOTE: The staple cartridge must be fully pushed home.

- The booklet maker units that follow are then initialized sequentially:
 - 1. If the BM back stop is not at the home position, it is driven to the home position.
 - 2. If the BM tampers are not in the home position, they are driven to the home position.
 - 3. If the BM stapler is not at the home position, it is driven to the home position.
 - 4. If the BM crease blade is not at the home position, it is driven to the home position.
 - 5. If the BM paddles are not in the home position, they are driven to the home position.
 - 6. The BM staplers are cycled to ensure the staples are primed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fuse on the LVF PWB. If the fuse is good, continue at the procedure. If the fuse not good, install a new LVF PWB, PL 12.425 Item 8.

Check the LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

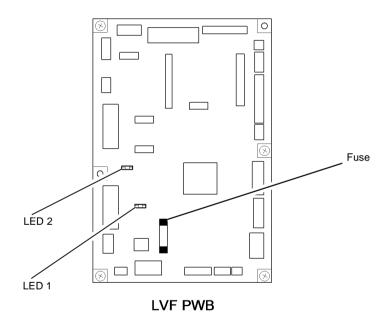
Remove the LVF BM covers, REP 12.1-150, so that the units can be viewed. Cheat the front door interlock switch and the top cover interlock switch. Check that LED 2 is illuminated. This shows that all interlocks are made. If the LED fails to illuminate, go to 312-310-00-150, 312-312-00-150, 312-313-00-150 Interlocks RAP.

Procedure

Refer to Figure 1. Check that the software heartbeat is present on LED 1. The LED should flash twice per second if the LVF software is running. If necessary, reload the LVF software, refer to GP 4 Machine Software.

If the initialization sequence fails to place any unit at the home position, refer to the appropriate RAPs:

- Front tamper not at home. Refer to 312-392-00-150, 312-393-00-150, 312-394-00-150
 LVF BM Front Tamper Move Failure RAP.
- Rear tamper not at home. Refer to 312-396-00-150, 312-397-00-150, 312-398-00-150
 LVF BM Rear Tamper Move Failure RAP.
- Paddle not at home. Refer to 312-024-00-150, 312-025-00-150 LVF BM Paddle Roll Failure RAP.
- Bin 1 not at home. Refer to 312-462-00-150 LVF BM Bin 1 Movement Failure RAP.
- Punch not at home. Refer to 312-043-00-150, 312-046-00-150 LVF BM Hole Punch Operation Failure RAP.
- Staple head not at home. Refer to 312E-150 LVF BM Staple Head Operation Failure RAP.
- Stapling unit not at home. Refer to 312-371-00-150, 312-372-00-150, 312-378-00-150
 LVF BM Staple Head Unit Movement Failure RAP.
- Ejector not at home. Refer to 312-340-00-150, 312-342-00-150 LVF BM Ejector Movement Failure RAP.



W-1-0069-B

Figure 1 LED location

312D-150 LVF BM Power Distribution RAP

The LVF BM has an integral power supply providing +24V and +5V supplies to the LVF PWB and the LVF BM PWB. The AC power for the LVF BM power supply comes from the LVPS and base module of the machine.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.



Do not connect the finisher power cord directly to the AC wall outlet. The finisher cannot operate without the machine. The machine controls the distribution of electricity to the finisher for correct power on and power off sequencing.

Close or cheat all the LVF BM interlocks. LED 2 on the LVF PWB, Figure 1 is illuminated.

+24V is available at Fuse (F1) on the LVF PWB, Figure 1.

Y N

Go to Flag 2. Check for +24V between the pins that follow on P/J300:

- Pin 1 and pin 2.
- Pin 1 and pin 3.
- Pin 1 and pin 6.
- Pin 1 and pin 7.
- Pin 5 and pin 2.
- Pin 5 and pin 3.
- Pin 5 and pin 6.
- Pin 5 and pin 7.

+24V is available between all the checked pins.

ΥI

Disconnect P/J300, check for +24V between the pins that follow on the end of the harness:

- Pin 1 and pin 2.
- Pin 1 and pin 3.
- Pin 1 and pin 6.
- Pin 1 and pin 7.
- Pin 5 and pin 2. Pin 5 and pin 3.
- Pin 5 and pin 6.
- Pin 5 and pin 7.

A B

C



+24V is available between all the checked pins on the end of the harness.

Figure 2. Loosen the 4 screws and lift the power supply module away from the LVF BM frame. Go to Flag 1. ACL is available at CN1 between pins 1 and 3.

Go to the 301C AC Power RAP and check the AC output voltages.

Check the wiring and connectors between CN2 and P/J300. The wiring is good.

Υ Ν

Repair the wiring, REP 1.2.

Install a new power supply module, PL 12.425 Item 2.

Check for a short or open circuit in the wiring or connectors between P/J300 on the LVF PWB and CN 2 on the power supply module. Refer to GP 7.

+24 V is available at PJ315 pin 5 on the LVF PWB.

Go to the 312-310-00-150, 312-312-00-150, 312-313-00-150 Interlocks RAP.



Do not install a fuse of a different type or rating. Installing the wrong type or rating of fuse can cause overheating and a risk of fire.

Perform the steps that follow:

- Switch off the machine. GP 14.
- Go to Flag 3, Flag 4, Flag 5 and Flag 6. Disconnect all the +24V harnesses to components.
- Check each harness for short circuits and overheating, GP 7.
- Repair or install new components as necessary.
- Install a new fuse F1. Figure 1 on the LVF PWB. Switch on the machine. GP 14.
- Monitor the voltage at the top end of the fuse and re-connect the circuits one at a time. Energize the re-connected components using the dC330 control codes shown on Figure 3.
- If the voltage drops below +22V, switch off the machine, GP 14. Re-check the component and harness for overheating or short circuits. Repair or install new components as necessary.

Install a new LVF PWB, PL 12.425 Item 8.

+5V is available at P/J300 between pins 4 and 6, also between pins 7 and 8.

Disconnect P/J300. +5V is available at P/J300 between pins 4 and 6, also between pins 7 and 8 on the end of the harness.

Check the wiring between CN2 and P/J300. The wiring is good.

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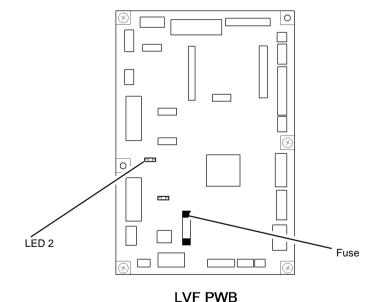
Repair the wiring, REP 1.2.

Install a new power supply module, PL 12.425 Item 2.

Perform the steps that follow

- Switch off the machine, GP 14.
- Go to Flag 3, Flag 4 and Flag 5. Disconnect all the +5V components.
- Check each circuit for short circuits and overheating, GP 7.
- Install new components as necessary.
- Reconnect P/J300 and switch on the machine, GP 14.
- Monitor the voltage at P/J300 pin 8, reconnect the circuits one at a time using the dC330 control codes shown on Figure 4.
- If the voltage falls below +4.7V switch off the machine, GP 14. Re-check the last reconnected component and harness for overheating or short circuits. Install new components as necessary.

Perform SCP 5 Final Actions



W-1-0954-B

Figure 1 LED location

312D-150

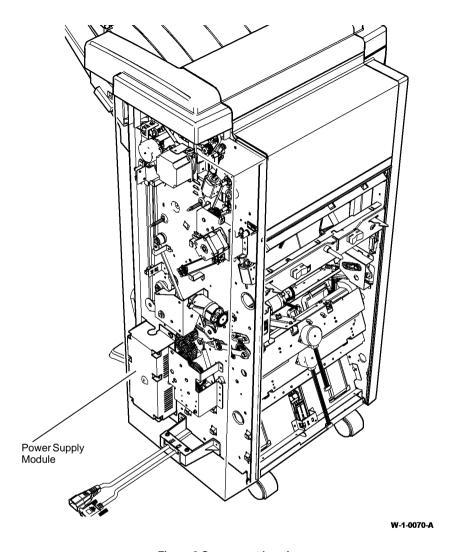


Figure 2 Component location

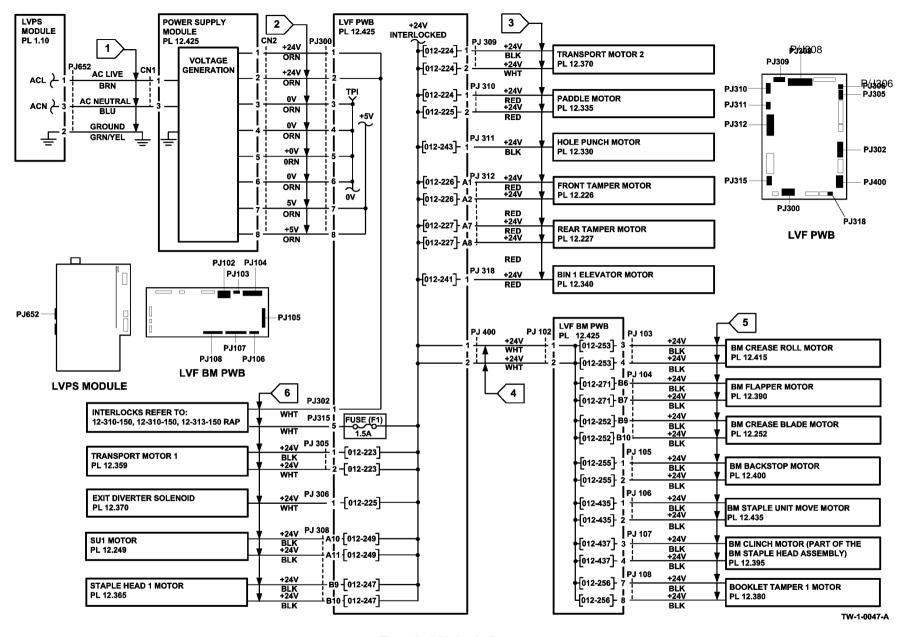
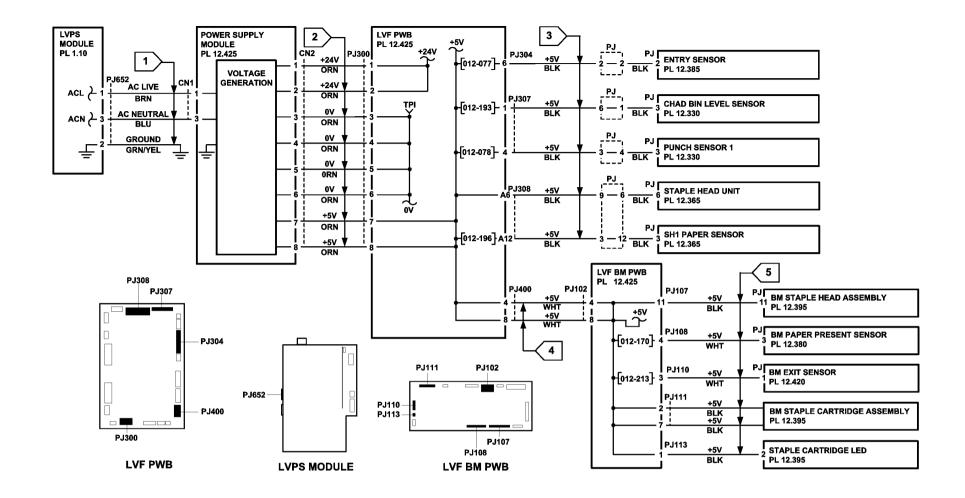


Figure 3 +24V circuit diagram



TW-1-0238-A

Figure 4 +5V circuit diagram

312E-150 Staple Head Operation Failure RAP

Use this RAP when the staple head failed to cycle, or the staple head was not at the home position.

NOTE: The home position is with the jaws of the staple head fully open.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Do not run code 012-247 without 2 sheets of paper in the stapler jaws. Running this code without the paper in position can cause damage to the machine.

Switch off, then switch on the machine, GP 14.

Refer to Figure 1. Check the items that follow:

- The LVF PWB DIP switch settings. Refer to 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.
- The staple head unit is correctly installed.

Procedure

NOTE: After repairing the fault using this RAP, switch off, then switch on the machine, GP 14, to enable operation of the staple head.

NOTE: All LVF BM interlocks must be made to supply +24V to the motors.

Place 2 sheets of paper in the stapler jaws. Enter dC330, code 012-247 to cycle the staple head once, and 12-248 to reverse the staple head to the home position. **The staple head operates as expected.**

ľ

Go to Flag 1 and Flag 2. Check the wiring and connectors between the LVF PWB and the staple head. **The wiring is good.**

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Repair the wiring, REP 1.2.

Install new components as necessary:

- Staple head unit, PL 12.365 Item 5.
- LVF PWB, PL 12.425 Item 8.

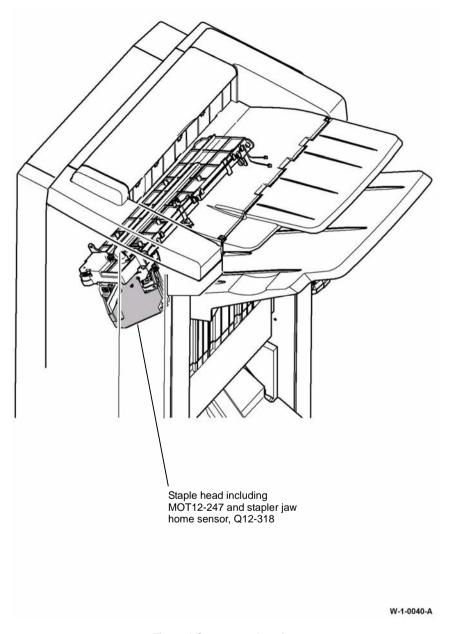
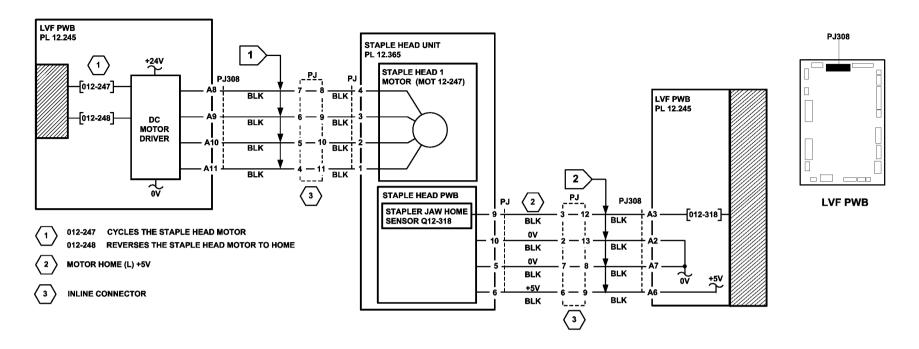


Figure 1 Component location



TW-1-0027-A

Figure 2 Circuit diagram

312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP

To show the correct settings for the DIP switches on the LVF PWB and LVF BM PWB.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Problems that can result from incorrect DIP switch settings are:

- False jam clearance instructions for the LVF BM and/or the machine exit area.
- Communication errors between the LVF BM and machine.
- Erratic behavior of the LVF BM.

Check the DIP switch settings, Figure 1. If necessary, switch off the machine, GP 14. Correct the DIP switch settings, then switch on the machine, GP 14.

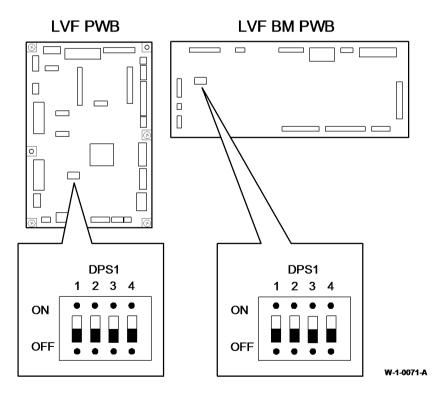


Figure 1 DIP switch settings

312G-150 Mis-Registration in Stapled Sets and Non-Stapled Sets RAP

Use this RAP to identify and correct the causes of mis-registration in stapled sets, resulting in staples missing some sheets in the set, or poorly registered non-stapled sets.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

The most likely cause of mis-registration is paper condition and/or damage such as curl, wrinkle, creases, dog ears, etc.

Curl, wrinkle and creases are probably caused in the IOT. Go to IQ1 Image Quality Entry RAP.

For other copy/print damage and dog ears, go to the 312H-150 Copy Damage in the LVF BM RAP.

Perform the steps that follow:

- Check that bin 1 is seated correctly and the bin 1 alignment clip is in position, PL 12.320 Item 12.
- Turn over the paper stack in the tray in use.
- Use a new ream of paper in the tray in use.
- Paper type especially recycled paper can lead to registration problems. Change to a different brand or type of paper, if available.
- Ensure that the guides in the paper trays are correctly set and reported on the UI for the paper size loaded.
- Check that paper type is set correctly. If heavyweight paper is used but not set in the UI, the compiler capacity can be exceeded.
- · Check for obstructions in the compiler.
- Ensure that the paddle roll operates correctly and that the paddles are not damaged. The paddles should park completely inside the top section of the compiler, with the shorter paddle in a vertical position. If all of the paddles are out of position, check the paddle roll home sensor, PL 12.335 Item 4, the flag, PL 12.335 Item 7 and the paddle motor assembly, PL 12.335 Item 10. If only 1 paddle is mis-aligned with the others, it can be re-positioned by hand (they are not bonded to the shaft). If necessary install new paddles, PL 12.335 Item 3.
- Ensure that the paddles are clean. If necessary, use formula A cleaning fluid, PL 26.10 Item 2 to clean the paddles.
- Ensure that the tampers operate correctly, i.e. are not stalling or losing position during the
 job. Inspect the tampers for damage, if necessary install new components. PL 12.355.
- Inspect the bin 1 entry nips for roll damage. The idlers should be held against the rubber driving rolls and they should be free to rotate within their support springs. If necessary, install new components, PL 12.375.
- Inspect the 4 spring loaded guides on the output cover, PL 12.335 Item 9. Ensure that
 they are correctly located and are free to move up and down.

312H-150 Copy Damage in the LVF BM RAP

Use this RAP to identify and correct the causes of copy damage in the LVF BM.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Look for torn paper in the LVF BM paper path. Torn fragments can pass through the IOT
 and LVF BM paper path without causing a problem until they finally wedge themselves at
 some point. A likely place for a piece of paper to be wedged is at the hole punch assembly, where the top and bottom guides form the narrowest part of the paper path.
- Ensure that the exit diverter gate assembly, PL 12.370 Item 13, operates correctly and has full movement.
- Ensure that the hole punches park at the fully open position. If they protrude even slightly, a jam will occur in the narrow paper path of the hole punch.
- Ensure that the paper entry guide assembly, PL 12.350 Item 7, closes and latches correctly. Check that the magnet at the rear is located and operates correctly. Check the clip at the front is positioned correctly, Figure 1.
- Ensure that all idler rolls in the LVF BM paper path are free to rotate, particularly those on the jam clearance guide, where the paper turns through 90 degrees.
- Ensure that the paper path ribs of the paper entry guide assembly, PL 12.350 Item 7, and the entry guide cover assembly, PL 12.320 Item 3, are free of "scores" and "nicks". Check also for contamination and glue from label stock.

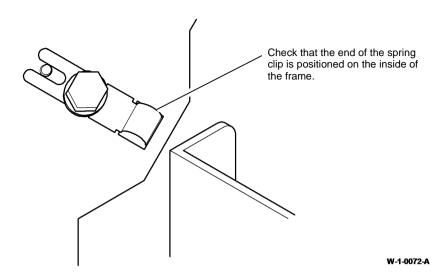


Figure 1 Position of the spring clip

312J-150 Booklet Quality RAP

Use this RAP to identify and correct the causes of poor booklet quality in the LVF BM.

The booklet quality problems that follow are covered in this RAP:

- The alignment of the top and bottom edges of the booklet are not within specification.
- The alignment of the open side edges of the booklet are not within specification.
- The booklet staples are badly formed.
- The booklet crease is off centre.
- The booklet crease is skewed greater than the specification.
- The booklet staple position is not within the specification.
- · The booklet is not sufficiently creased.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check that the paper loaded in the paper trays matches the paper size displayed on the UI. Refer to 371-500-00 Tray 1 Open During Run RAP and 372-500-00 Tray 2 Open During Run RAP.
- Ensure that the paper being fed to the BM conforms to the specification, GP 20 Paper and Media Size Specification.
- Ensure that the booklets being produced do not exceed the maximum contents given in Table1.

Table 1 Booklet contents

| Media | Media weight | Maximum number of sheets | Maximum number of booklet pages | Maximum number of unstapled sheets |
|--|---|--------------------------------|---------------------------------------|---|
| Plain paper | 60 to 80gsm (16 to 21lb bond) | 15 | 60 | 5 |
| Heavyweight | 90gsm (24lb bond) | 13 | 52 | - |
| Heavyweight | 120gsm (32lb bond) | 10 | 40 | - |
| Heavyweight | 160gsm (43lb bond) | 7 | 28 | - |
| Heavyweight | 216gsm (58lb bond) | 2 | 8 | - |
| Plain paper with heavy- weight cover | 60 to 80gsm (16 to 21lb bond) with 160gsm (43lb bond) cover | 14 including 1 cover | 56 | - |

 Check the machine and LVF BM paper paths for any obstruction that could cause misalignment of the paper fed to the BM compiling area.

Procedure

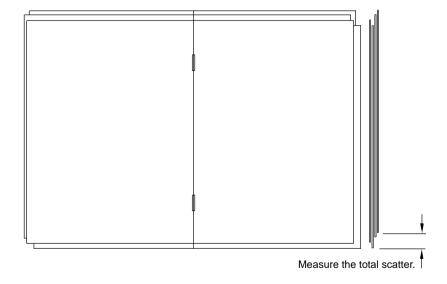
Produce three 4 sheet/16 page booklets using 80gsm (20lb) paper. Paper size and weight must conform to GP 20 Paper and Media Size Specification.

Examine the booklets for defects. Go to the appropriate defect and perform the appropriate actions:

- Top and Bottom Edge Alignment
- Open Side Edge Alignment
- Badly Formed Booklet Staples
- Booklet Crease Is Off Centre
- Skewed Booklet Crease
- Booklet Staple Position Is Not On the Crease
- The Booklet Is Not Sufficiently Creased

Top and Bottom Edge Alignment

Open out the booklet at the centre page and press it onto a flat surface. Measure the mis-alignment of the top and bottom edges of the booklet, Figure 1.



W-1-1345-A

Figure 1 Top and bottom alignment

Table 2 Top and bottom edge alignment

| | Paper size | 4 sheet booklet | 15 sheet booklet |
|-------------------|----------------|-----------------|------------------|
| 95% of booklets | A4/8.5x11 inch | 1.5mm | 2.0mm |
| | 8.5x14 inch | 2.0mm | 2.5mm |
| | A3 | 2.5mm | 3.0mm |
| | 11x17 inch | 2.0mm | 2.5mm |
| Worst 5% booklets | A4/8.5x11 inch | 2.0mm | 3.0mm |
| | 8.5x14 inch | 2.5mm | 3.5mm |
| | A3 | 3.0mm | 4.5mm |
| | 11x17 inch | 2.5mm | 3.5mm |

If the top and bottom edge alignment does not conform to the specification in Table 2, check the operation of the BM tampers. Refer to 312-066-00-150, 312-384-00-150 Booklet Tamper 1 Move Failure RAP.

Open Side Edge Alignment

Open out the booklet at the centre page and press it onto a flat surface. Measure the mis-alignment of the open side edges of the booklet, Figure 2.

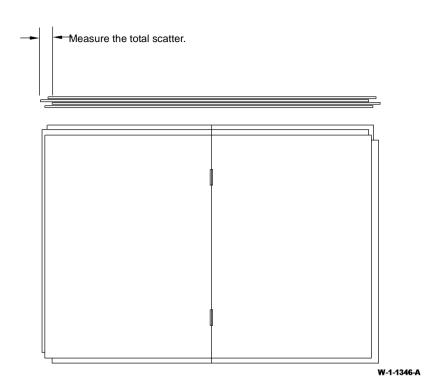


Figure 2 Open side edge alignment

Table 3 Open side edge alignment

| Table 6 Open side edge diigililetic | | | |
|-------------------------------------|----------------|-----------------|------------------|
| | Paper size | 4 sheet booklet | 15 sheet booklet |
| 95% of booklets | A4/8.5x11 inch | 1.5mm | 2.0mm |
| | 8.5x14 inch | 1.5mm | 2.0mm |
| | A3 | 2.0mm | 2.5mm |
| | 11x17 inch | 1.5mm | 2.0mm |
| Worst 5% booklets | A4/8.5x11 inch | 2.0mm | 3.0mm |
| | 8.5x14 inch | 2.0mm | 3.0mm |
| | A3 | 2.5mm | 3.5mm |
| 1 | 11x17 inch | 2.0mm | 3.0mm |

If the open side edge alignment does not conform to the specification in Table 3, perform the RAPs that follow:

- 312-065-00-150, 312-383-00-150, 312-484-00-150, 312-486-00-150 Back Stop Failure RAP
- 312-418-00-150 Flapper Failure RAP.

Badly Formed Booklet Staples

If the front booklet staples are not formed correctly, perform ADJ 12.7-150 Booklet Stapler Anvil Position - Front.

If the rear booklet staples are not formed correctly, perform ADJ 12.8-150 Booklet Stapler Anvil Position - Rear.

Booklet Crease Is Off Centre

Open out the booklet at the centre page and press it onto a flat surface. Measure the position of booklet crease, Figure 3.

Measure from the booklet edge to the crease.

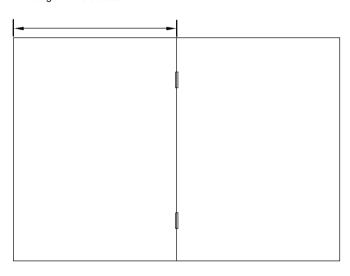


Figure 3 Booklet skew

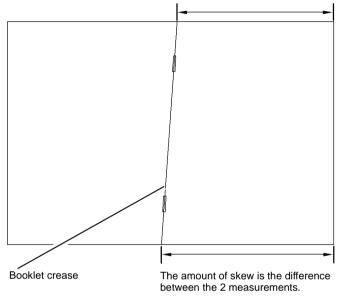
Table 4 Crease position and tolerance

| Paper size | Edge to crease measurement |
|-------------|----------------------------|
| A4 | 148.5 +/- 1.5mm |
| A3 | 210 +/- 1.5mm |
| 8.5x11 inch | 139.5 +/- 1.5mm |
| 8.5x13 inch | 165.1 +/- 1.5mm |
| 8.5x14 inch | 178.0 +/- 1.5mm |
| 11x17 inch | 216.0 +/- 1.5mm |

If the booklet crease position does not conform to the specification in Table 4, perform ADJ 12.5-150 Booklet Crease Position.

Skewed Booklet Crease

Open out the booklet at the centre page and press it onto a flat surface. Measure the mis-alignment of the open side edges of the booklet, Figure 4.



W-1-1347-A

Figure 4 Booklet crease skew

Table 5 Booklet crease skew

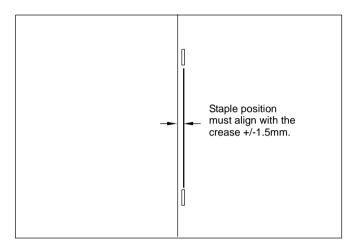
| | Paper size | 4 sheet booklet | 15 sheet booklet |
|-------------------|----------------|-----------------|------------------|
| 95% of booklets | A4/8.5x11 inch | 1.5mm | 2.0mm |
| | 8.5x14 inch | 1.5mm | 2.0mm |
| | A3 | 2.0mm | 2.5mm |
| | 11x17 inch | 1.5mm | 2.0mm |
| Worst 5% booklets | A4/8.5x11 inch | 2.0mm | 3.0mm |
| | 8.5x14 inch | 2.0mm | 3.0mm |
| | A3 | 2.5mm | 3.5mm |
| | 11x17 inch | 2.0mm | 3.0mm |

If the booklet crease skew does not conform to the specification in Table 5, perform the procedures that follow:

- 312-065-00-150, 312-383-00-150, 312-484-00-150, 312-486-00-150 Back Stop Failure RAP.
- 312-418-00-150 Flapper Failure RAP.
- ADJ 12.9-150 Booklet Skew.

Booklet Staple Position Is Not On the Crease

Open out the booklet at the centre page and press it down onto a flat surface. Measure the position of the booklet staple from the crease line, Figure 5.



W-1-1349-A

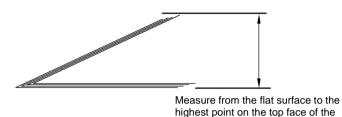
Figure 5 Booklet staple position

If the booklet staple position does not conform to the specification in Figure 5, perform ADJ 12.6-150 Booklet Staple Position.

The Booklet Is Not Sufficiently Creased

Place the folded booklet onto a flat surface. Measure the maximum open dimension of the booklets within 20 seconds of being formed, Figure 6.

- Crease roll gear 2, PL 12.415 Item 2.
- Crease roll gear 3, PL 12.415 Item 3.
- Crease roll gear 4, PL 12.415 Item 4.



booklet.

W-1-1350-A

Figure 6 Booklet creasing

Table 6 Creasing tolerance

| Number of sheets in booklet | Height of booklet at highest point |
|------------------------------|------------------------------------|
| 1-6 sheets of 80gsm (20lb) | 25mm |
| 7-10 sheets of 80gsm (20lb) | 50mm |
| 11-15 sheets of 80gsm (20lb) | 100mm |

If the maximum height of the booklets does not conform to the specification in Table 6, check the parts that follow for damage:

- Crease blade assembly, PL 12.405 Item 5.
- Crease blade drive gear, PL 12.405 Item 7.
- Crease blade gearbox, PL 12.405 Item 11.
- Crease blade cranks, PL 12.405 Item 12.
- Crease blade front blade arm, PL 12.405 Item 8.
- Crease blade rear blade arm, PL 12.405 Item 9.
- Crease blade guides, PL 12.405 Item 3.
- Upper crease roll, PL 12.410 Item 2.
- Lower crease roll, PL 12.410 Item 3.
- Crease roll gearbox assembly, PL 12.415 Item 8.
- Crease roll gear 1, PL 12.415 Item 1.

316-000-00 to 316-016-99 Network Faults 1 RAP

316-000-00 Format services non shutdown ESS faults.

316-000-01 ENS service non shutdown ESS faults.

316-000-09 Cannot create RPC connection with ENS.

316-000-14 Cannot create RPC connection with ENS.

316-000-19 Cannot create RPC connection with ENS.

316-000-26 Cannot create RPC connection with ENS.

316-001-09 Unable to do startup synchronization.

316-001-14 Unable to do startup synchronization.

316-001-19 Unable to do startup synchronization.

316-001-26 Unable to startup and synchronize with SC.

316-001-47 Unable to do startup synchronization.

316-001-90 Unable to do startup synchronization.

316-002-09 Unable to register as an RPC server.

316-002-14 Unable to register as an RPC server.

316-002-19 Unable to register as an RPC server.

316-002-26 Unable to register as an RPC server.

316-002-46 Unable to register as an RPC server.

316-003-09 Too many IPC handles.

316-003-14 Too many IPC handles.

316-003-19 Too many IPC handlers.

316-003-90 Utility insert handler failure.

316-004-14 RPC call failure to ESS registration service.

316-004-19 RPC connect failure to ESS registration service.

316-004-26 RPC connect failure to ESS registration service.

316-004-46 RPC connect failure to ESS registration service (to register with).

316-005-14 RPC call failure to ESS registration service.

316-005-19 RPC call failure to ESS registration service.

316-005-26 RPC call failure to ESS registration service.

316-005-46 RPC call failure to ESS registration service (to register with).

316-005-68 RPC call failure to ESS registration service (to register with).

316-005-90 RPC call failure to ESS registration failed.

316-005-92 RPC call failure to ESS registration service (to register with).

316-006-09 Cannot register for events.

316-006-19 Cannot register for events.

316-007-92 Invalid RPC data received.

316-009-09 Invalid IPC data received.

316-010-14 Unable to send IPC.

316-010-99 IPC open, create, signal queue failed.

316-013-14 Digital copier ENS synchronization error.

316-014-14 Digital copier ENS synchronization error.

316-015-14 SESS data store environmental variable not set.

316-015-19 SESS data store environmental variable not set.

316-016-14 Data store initialization failed.

316-016-19 Data store initialization failed.

16-016-99 Data Store init, failed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-017-19 to 316-153-19 Network Faults 2 RAP

316-017-19 Send event failure. Unable to send event to ESS ENS.

316-021-19 ESS PM registration connect error.

316-021-26 Service could not get host name.

316-021-46 Unable to get host name.

316-023-09 RPC call failure to ENS.

316-023-26 RPC call failure to ENS.

316-026-09 Memory allocation failure.

316-026-14 Memory allocation error.

316-026-46 Memory allocation failure.

316-026-90 Memory allocation error.

316-026-92 Memory allocation failure.

316-027-90 Unable to obtain well known queue ID.

316-028-09 Unable to complete RPC call.

316-028-90 Invalid range string.

316-030-19 Unable to obtain client RPC handle to EJS.

316-031-09 Invalid event notification received.

316-032-19 NVM connection failure.

316-039-00 Pthread create error.

316-040-92 Semaphore fault.

316-048-09 Unable to set binding.

316-048-14 Cannot set ESS client binding.

316-048-90 Cannot set ESS client binding.

316-048-99 Unable to set client binding.

316-150-09 Cannot send registration event.

316-150-14 Unable to obtain RPC transport.

316-150-19 Unable to sync peer (within ESS) infrastructure services.

316-150-26 Fault service failed to write log.

316-150-90 Invalid IPC request destination.

316-150-92 Consumer interface fault.

316-151-09 Invalid IPC command.

316-151-14 SNMP event registration failed.

316-151-19 Invalid IPC command.

316-151-26 Fault service failed to get a log handle.

316-151-90 Put environment variable failure.

316-152-09 Internal IPC failure.

316-152-14 Empty internal event received by ENS.

316-152-19 Unable to send request to SESS.

316-152-26 Fault service could not open fault log.

316-153-09 Unable to obtain IPC queue.

316-153-14 Can not initialize internal event list.

316-153-19 NVM save failure.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-154-09 to 316-602-105 Network Faults 3 RAP

316-154-09 NC registration service configuration error.

316-154-14 Cannot create internal event.

316-154-19 NVM read failure.

316-155-19 NC failed to boot from alternate disk partition.

316-156-19 Service run loop failed.

316-160-09 NC registration service process death.

316-161-09 Cannot send registration event.

316-162-09 NC platform manager services process death.

316-163-09 NC DM agent services process death.

316-164-09 List access failure (create, add, find, delete).

316-429-00 Unable to write to data store.

316-431-00 Unable to get system time.

316-432-00 Unknown scheduler received.

316-433-00 RPC call failed.

316-434-00 Unable to change scheduler received.

316-600-07 Cannot create RPC connection to ENS.

316-600-35 Cannot create RPC connection to ENS.

316-600-46 Cannot create RPC connection to ENS.

316-600-66 Unable to create RPC connection to ENS.

316-600-67 Unable to create RPC connection to ENS.

316-601-26 Fault service failed IPC queue setup.

316-601-35 System control initialization failed.

316-601-46 Invalid UI information (RPC data) returned.

316-601-47 Diagnostics service failed IPC queue setup.

316-601-66 Unable to do startup synchronization.

316-601-67 Unable to do startup synchronization.

316-601-68 Unable to startup and synchronize with SC.

316-601-105 Unable to do startup synchronization.

316-602-07 RPC service registration failure.

316-602-09 Unable to unregistered as RPC service during shutdown.

316-602-11 RPC server register failed.

316-602-28 RPC server registration failed.

316-602-35 RPC server registration failed.

316-602-38 RPC server registration failed.

316-602-66 Unable to register as an RPC server.

316-602-67 Unable to register as an RPC server.

316-602-68 Unable to register as an RPC server.

316-602-105 Unable to register as an RPC server.

Procedure



- If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-603-11 to 316-608-105 Network Faults 4 RAP

316-603-11 Replace handler call failed.

316-603-28 Replace handler call failed.

316-603-46 Too many IPC handlers.

316-603-66 Too many IPC handlers.

316-603-67 Too many IPC handlers.

316-603-68 Replace handler call failed.

316-603-105 RPC call failure to network controller registration service.

316-604-14 Unable to unregister as RPC service during shutdown. Registration failed.

316-604-38 Could not register with registration service.

316-604-99 Could not register with registration service.

316-604-105 SESS data store environmental variable not set.

316-605-07 Unable to register with registration service.

316-605-14 RPC call failure to ESS registration service.

316-605-26 Fault service timed out registering with registration service.

316-605-35 RPC call failure to NC registration service.

316-605-47 RPC call failure to NC registration service (to register with).

316-605-66 RPC call failure to NC registration service.

316-605-67 RPC call failure to NC registration service.

316-605-105 Unable to unregister as RPC service during shutdown.

316-606-07 Cannot register for events.

316-606-35 Cannot register for events.

316-606-46 Cannot register for events.

316-606-99 Cannot register for events.

316-606-105 OS problem.

316-607-19 Invalid RPC data received.

316-607-46 Invalid RPC data received.

316-607-47 Invalid RPC disk diagnostic data received.

316-607-92 Invalid RPC data received.

316-607-105 Service run loop failed.

316-608-09 Unable to free IPC resources.

316-608-11 IPC unregister failed.

316-608-14 Unable to free IPC resources.

316-608-26 Fault service failed to unbind with SC.

316-608-28 IPC unregister fail.

316-608-35 Unable to free IPC resources.

316-608-38 Unable to unregister as IPC server.

316-608-46 Unable to free IPC resources.

316-608-66 Unable to free IPC resources.

316-608-67 Unable to free IPC resources.

16-608-68 Unable to Free IPC Resources.

316-608-105 Unable build UI SVC, obtain client failed.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-609-07 to 316-612-68 Network Faults 5 RAP

316-609-07 Unknown message received from DM agent.

316-609-19 Invalid RPC data received.

316-609-105 Too many IPC handlers.

316-609-26 Fault service encountered error trying to get IPC message.

316-609-46 Invalid IPC data received.

316-609-47 Invalid IPC data received. Get SC diagnostics handle failed.

316-609-92 Invalid IPC data received.

316-610-00 IPC send failure to ESS AAA service for queue command authorization.

316-610-07 IPC send failure to DM agent.

316-610-09 Cannot send IPC message to ESS platform manage.

316-610-11 IPC communication failed.

316-610-19 Unable to send IPC message.

316-610-26 Unable to send IPC message.

316-610-28 IPC communication failed.

316-610-35 Unable to send IPC message.

316-610-46 Unable to send IPC message.

316-610-90 IPC send response error.

316-610-92 Failure to send queue status.

316-610-99 Unable to send IPC message.

316-611-07 Client removal failure.

316-611-38 Client removal failure.

316-611-09 Unable to remove RPC connection.

316-611-14 Unable to remove RPC connection.

316-611-19 Unable to remove RPC connection.

316-611-26 Unable to remove RPC connection.

316-611-46 Unable to remove RPC connection.

316-611-47 Unable to remove RPC connection.

316-611-66 Unable to remove RPC connection.

316-611-67 Unable to remove RPC connection.

316-611-99 Unable to remove RPC connection.

316-612-09 Unable to do shutdown synchronization.

316-612-14 Unable to do shutdown synchronization.

316-612-35 Unable to do shutdown synchronization.

316-612-46 Unable to do shutdown synchronization.

316-612-47 Downgrade not permitted.

316-612-68 Unable to do shutdown synchronization.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-613-09 to 316-620-90 Network Faults 6 RAP

316-613-09 DC registration synchronization error.

316-613-14 DC ENS synchronization error.

316-613-19 DC sys mgr sync error.

316-614-09 DC registration communications error.

316-614-14 Digital copier ENS registration error.

316-614-19 DC sys mgr communications error.

316-614-47 Invalid SW upgrade file.

316-615-35 SESS data store environmental variable not set.

316-615-46 SESS data store environmental variable not set.

316-615-47 Multiple SW upgrade files in directory.

316-615-66 SESS data store environmental variable not set.

316-615-67 SESS data store environmental variable not set.

316-615-90 Corrupt environment variable, configuration script error.

316-616-35 SESS faults 206 or 207. Data store not created. Corrupt environment.

316-616-38 Shared memory fault when initializing with the data store.

316-616-46 SESS faults 206 or 207, data store not created, corrupt environment variable.

316-616-47 IPC message failure.

316-616-67 Submission of e-mail or internet fax job failed.

316-617-19 Invalid event information or data. ENS failure, system RPC information corrupt.

316-617-47 TAR extraction failure.

316-618-47 DLM SPI extraction failure.

316-619-14 Registration service failed to respond in time.

316-619-19 Registration service failed to respond in time.

316-619-26 Could not register with registration service. Communication failure, software error.

316-619-46 Unable to unregister with network controller registration service. Registration Service was too slow to respond.

316-619-47 DMPR failure at web.

316-619-68 Unable to unregister with network controller registration service. Registration service was too slow to respond.

316-619-93 Unable to unregister with network controller registration service. Registration service was too slow to respond.

316-620-07 Registration service failed.

316-620-14 Registration service failed.

316-620-19 Registration service failed.

316-620-35 Registration service failed.

316-620-38 Registration service failed.

316-620-39 Registration service failed.

316-620-46 Registration service failed.

316-620-47 Upgrade request rejected.

316-620-90 Registration service failed.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-620-92 or 316-625-90 Network Faults 7 RAP

316-620-92 Unable to unregister with network controller registration service due to registration service failure.

316-620-93 Unable to unregister with network controller registration service due to registration service failure.

316-620-99 Registration service failed.

316-621-00 Unable to get host name. Configuration error.

316-621-07 Unable to get host name. Configuration error.

316-621-11 Unable to get host name. Configuration error.

316-621-28 Unable to get host name. Configuration error.

316-621-35 Failed to get host name using GetHostName call.

316-621-38 Failed to get host name using GetHostName call.

316-621-47 Failed to get host name using GetHostName call.

316-621-66 Unable to get host name.

316-621-67 Unable to get host name.

316-621-93 Failed to get host name using GetHostName call.

316-621-99 Failed to get host name using GetHostName call.

316-622-07 Corrupt O/S RPC table.

316-622-09 Corrupt O/S table.

316-622-11 Corrupt O/S table.

316-622-14 Corrupt O/S table.

316-622-19 Corrupt O/S table.

316-622-26 Corrupt O/S table.

316-622-28 Corrupt O/S table.

316-622-35 Corrupt O/S table.

316-622-38 Corrupt O/S table.

316-622-46 Corrupt O/S table.

316-622-47 Software upgrade file failure.

316-622-66 Unable to unregister as RPC service during shutdown.

316-622-67 Unable to register as RPC service during shutdown.

316-622-68 Unable to register as RPC service during shutdown.

316-623-35 ENS Service failed to respond in time.

316-623-47 ENS service failed to respond in time.

316-624-46 RPC corrupted o/s failure.

316-625-35 Unknown message received. Software version mismatch.

316-625-46 Software version mismatch.

316-625-66 Invalid IPC message type.

316-625-67 Invalid IPC message type.

316-625-90 Known service sends message that does not make sense.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-626-00 to 316-635-99 Network Faults 8 RAP

316-626-00 Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

316-626-11 Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

316-626-38 Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

316-626-47 Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

316-626-66 Memory allocation failed.

316-626-67 Memory allocation failed.

316-628-07 Range environment variable not set. Set to invalid numeric string.

316-628-35 Range environment variable not set. Set to invalid numeric string.

316-628-46 Range environment variable not set. Set to invalid numeric string.

316-628-66 Range environment variable not set. Set to invalid numeric string.

316-628-67 Range environment variable not set. Set to invalid numeric string.

316-628-09 Unable to complete RPC call.

316-629-11 Fault service call to PSW callback failed.

316-629-26 Fault service call to PSW callback failed.

316-629-46 No acknowledgment for RPC message.

316-629-66 No acknowledgement for RPC message.

316-629-67 No acknowledgment for RPC message.

316-629-68 No acknowledgment for RPC message.

316-629-92 No acknowledgment for RPC message. RPC timeout calling program received void response due to corrupt RPC.

316-629-93 No acknowledgment for RPC message. RPC timeout calling program received void response due to corrupt RPC.

316-630-09 Corrupt O/S RPC table.

316-630-26 Corrupt system configuration.

316-630-35 Unable to get RPC client handle. Corrupt system configuration.

316-630-38 Null pointer returned when obtain client attempted.

316-630-46 Corrupt system configuration.

316-630-47 Corrupt system configuration.

316-630-66 Unable to get RPC client handle.

316-630-67 Unable to get RPC client handle.

316-630-68 Unable to get RPC client handle.

316-630-99 Corrupt system configuration.

316-631-19 Software error in the ENS service or in the service generating the fault.

316-631-46 Software error in the ENS or in the service generating the fault.

316-633-19 Invalid system configuration. NVM corrupted.

316-634-46 Unable to specify shutdown routine during initialization.

316-635-07 Cannot free XDR data.

316-635-35 Cannot free XDR data.

316-635-46 Unable to free XDR data.

316-635-99 Unable to convert serialized data to internal data structure.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-636-35 to 316-647-26 Network Faults 9 RAP

316-636-35 Unable to convert serialized data to internal data structure. Unable to free XDR data.

316-636-99 Unable to convert serialized data to internal structure. Unable to free XDR data.

316-637-11 Failed to open system jobs file.

316-637-26 Failed to open system jobs file.

316-637-38 Disk write error.

316-637-47 Failed to open a file. Bad disk.

316-637-66 File I/O error.

316-637-67 File I/O error.

316-637-93 File I/O error.

316-637-95 File I/O error.

316-638-66 Unable to initialize with queue library.

316-638-67 Unable to initialize with queue library.

316-639-38 O/S failure memory.

316-639-46 O/S failure memory.

316-640-28 Calling program received void.

316-640-35 RPC send corrupt.

316-640-46 O/S failure.

316-641-00 Cannot log fault to network controller fault log. Either registration or network controller fault service is not available.

316-641-26 Unable to log a fault on the network controller.

316-641-46 Cannot log fault to network controller fault service.

316-642-46 Software error.

316-642-47 Software error.

316-643-19 Disk write error.

316-643-26 Failed to close system jobs file.

316-643-47 Failed to close a file.

316-644-11 Common logging utility failed to get log size.

316-644-26 Common logging utility failed to get log size.

316-644-47 Failed while trying to get data for next process to be verified.

316-644-66 File I/O error.

316-644-67 File I/O error.

316-645-11 Failed write to system jobs file.

316-645-26 Failed write to system jobs file.

316-645-46 Failed to write to a file.

316-645-47 Failed to write to a file.

316-645-66 File I/O error.

316-645-67 File I/O error.

316-646-26 Failed to delete system jobs file.

316-647-19 Lynx OS not responding.

316-647-26 Diagnostic failure. O/S failure.

Procedure



- If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-649-35 to 316-668-95 Network Faults 10 RAP

316-649-35 Software error.

316-650-35 Service making invalid attribute request.

316-650-99 Service making invalid attribute request.

316-651-19 IPC, OS, SESS or SC operation.

316-651-35 IPC and OS failure. SESS not responding.

316-651-99 IPC and OS failure. SESS not responding.

316-652-38 SPI enroll failed. Unable to enroll SPI callbacks.

316-652-98 SPI enroll failed. Unable to enroll SPI callbacks.

316-652-99 SPI enroll failed. Unable to enroll SPI callbacks.

316-653-38 When DM passes completed job logged an invalid job.

316-654-14 Log_Init/Log_Close Fault.

316-654-38 DM returned from SPI register function because of error.

316-654-99 DM returned from log function because of error.

316-655-38 DM returned to SPI register function because of error.

316-656-38 RPC processing fault.

316-658-07 Unable to get host name. Configuration error.

316-659-11 Parser utility open failure.

316-659-28 Parser utility open failure.

316-659-93 Parser utility open failure.

316-659-95 Parser utility open failure.

316-660-95 Cannot read local directory entries.

316-660-99 Service initialization failed.

316-661-95 Cannot create spool directory.

316-662-11 Parser utility template failed to parse.

316-662-28 Parser utility template failed to parse.

316-662-93 Parser utility template failed to parse.

316-662-95 Parser utility template failed to parse.

316-663-11 Parser utility template failed to parse.

316-663-28 Parser utility template failed to parse.

316-663-93 Parser utility template failed to parse.

316-663-95 Parser utility template failed to parse.

316-664-11 Parser utility parser closing failed.

316-664-28 Parser utility parser closing failed.

316-664-93 Parser utility parser closing failed.

316-664-95 Parser utility parser closing failed.

316-665-95 Unable to detach from child thread.

316-666-11 Parser utility invocation failed.

316-666-28 Parser utility invocation failed.

316-666-93 Parser utility invocation failed.

316-666-95 Parser utility invocation failed.

316-667-11 Parser utility set status failed.

316-667-28 Parser utility set status failed.

316-667-95 Parser utility set status failed.

316-668-47 Failed to write NVM.

316-668-93 Unable to determine local file statistics.

316-668-95 Unable to determine local file statistics.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-669-28 to 316-730-66 Network Faults 11 RAP

316-669-28 Unable to write job template to network controller disk.

316-669-93 Unable to write job template to network controller disk.

316-669-95 Unable to write job template to network controller disk.

316-670-00 Unable to lock/unlock data store.

316-670-11 Unable to decode template file.

316-670-28 Unable to decode template file.

316-670-47 Failed to save NVM.

316-670-93 Unable to decode template file.

316-671-00 Sort jobs failed.

316-671-47 Failed to initialize NVM.

316-671-93 Unable to encode template file.

316-671-95 Unable to encode template file.

316-672-09 Software error. File system corruption.

316-672-95 Software error. File system corruption.

316-673-95 Software error. File system corruption.

316-674-00 RPC server not responding.

316-674-09 RPC server not responding.

316-675-00 Database server not responding.

316-700-00 In a list job request, an unknown attribute was requested.

316-700-35 Unknown attribute requested passes into a function.

316-701-00 LOA failure. Unable to communicate with XSA database.

316-701-68 Printing prohibited. Unable to communicate with postgres database.

316-701-99 LOA failure. Unable to communicate with XSA database.

316-701-110 Unable to communicate with XSA Database.

316-702-00 LOA failure. Unable to communicate with XSA database.

316-702-95 LOA failure. Unable to communicate with XSA database.

316-707-00 Unknown queue request received.

316-709-00 Unknown modify request received.

316-710-00 Service being communicated to is dead. System resource corrupted.

316-710-35 Service trying to communicate to is dead. System resources corrupted.

316-716-00 Data store not created. Corrupt environment variable.

316-728-00 Range environment variable set to invalid numeric string.

316-730-00 Unable to create client handle.

316-730-28 Unable to create client handle.

316-730-35 Unable to create client handle.

316-730-66 Unable to create client handle.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-718-00 to 316-726-00 Hard Disk Faults RAP

16-718-00 Data Store Threshold Exceeded.

16-720-00 Disk Partition root Threshold Exceeded.

16-722-00 Disk Partition /var Threshold Exceeded.

16-724-00 Disk Partition /tmp Threshold Exceeded.

16-726-00 RPC connections exhausted.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, reload the machine softwareGP 4.

316-742-19 Hard Disk ODIO Failure RAP

316-742-19 Hard disk ODIO failure.

Procedure



- 1. Print a configuration report.
- If the configuration report shows Image Overwrite as installed/disabled, perform the following:
 - a. Enter Customer Administration Tools, GP 24.
 - b. Select the Tools tab.
 - c. Select Security Settings.
 - Select Image Overwrite Security.
 - e. Enable the required feature.
- 3. Perform the 316E Network Fault Checkout RAP.

316-750-07 to 316-750-95 Network Faults 12 RAP

316-750-07 Message received from DM not processed correctly.

316-750-09 Service tried to register and service is already registered.

316-750-11 Template cache file is missing.

316-742-19 Hard disk ODIO failure.

316-750-14 Too many messages sent to SESS system control.

316-750-19 Invalid request data from calling service.

316-750-26 Invalid number of faults requested.

316-750-35 Data store failure.

316-750-38 Initialization of SPI and job tracking table failed in SVC initialize service.

316-750-46 Client requested an unknown object or invalid object type.

316-750-47 Bad parameter returned.

316-750-66 Failure to set service state.

316-750-67 Failure to set service state.

316-750-90 Unexpected service sends this message.

316-750-92 Unable to open bit map captured to disk. Bad or full disk.

316-750-93 IFS error when requesting memory.

316-750-95 Local spool area does not exist.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-751-00 to 316-753-95 Network Faults 13 RAP

316-751-00 Database error known by service registry or registry not available.

316-751-07 Message received from network controller AAA not processed correctly.

316-751-09 Registration receives unrequested ENS notification.

316-751-11 Initialization procedure fails.

316-751-14 SC not responding.

316-751-19 Invalid permission to change date.

316-751-26 Unrecognized code. Service raises code that the fault service doesn't know how to handle.

316-751-28 Templates attributes are invalid, or syntax error.

316-751-35 Invalid queue ID.

316-751-38 Unknown attribute returned for completed job list.

316-751-46 Client requested an unknown object or invalid object type.

316-751-47 Failed to replace the current directory with directory from alt. partition.

316-751-66 Unable to send event to network controller ENS.

316-751-67 Unable to send event to network controller ENS.

316-751-92 Cannot set job to complete.

316-751-93 Invalid template attribute.

316-751-112 Database Error or Service Registry not available.

316-752-00 File cabinet application registration error.

316-752-07 Data store error.

316-752-09 Configuration control problem.

316-752-14 SC not responding. SC IPC queue does not exist.

316-752-19 RPC failure.

316-752-26 Unrecognized SESS error code.

316-752-28 Template cache file is missing.

316-752-35 Invalid queue ID.

316-752-46 Invalid row of table object.

316-752-47 Invalid test pattern source.

316-752-66 Scan to fax services registration error.

316-752-67 Scan to fax services registration error.

316-752-92 Configuration problem.

316-752-93 Error accessing jobs in job list.

316-752-95 File transfer failure.

316-753-00 File cabinet application un-registration error.

316-753-09 Software bug.

316-753-14 Calling service used an invalid event number.

316-753-19 Invalid event information or data. ENS failure. System RPC information corrupt.

316-753-26 PSW failure. O/S failure. CCM failure.

316-753-28 Cannot communicate with UI for template list request.

316-753-35 Unable to change EJS status to offline.

316-753-46 Invalid table row.

316-753-47 Failed to close a directory during verification check. Corrupt disk.

316-753-66 Data store read failure.

316-753-67 Data store read failure.

316-753-90 Software error.

316-753-92 Configuration problem.

316-753-93 Error adding jobs in job list.

316-753-95 Requested transfer protocol not supported.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-754-09 to 316-756-93 Network Faults 14 RAP

316-754-09 Still registered services after timeout.

316-754-14 Receipt is not there. Failure on ENS side.

316-754-19 Shutdown request reason unknown.

316-754-26 Fault service encountered error reading fault log. File system corrupted.

316-754-28 Initialization procedure fails.

316-754-35 OS corrupt.

316-754-46 Attempted to write a read only object. Software configuration error.

316-754-47 Failed to replace a file that was missing with file from alt. partition.

316-754-66 OS problem.

316-754-67 OS problem.

316-754-68 Initialize procedure fails.

316-754-90 Software bug.

316-754-92 Data store failure.

316-754-93 Error deleting jobs from job list.

316-754-95 Unable to remove advisory lock on network server.

316-755-00 Service registry cannot initialize database.

316-755-09 Cannot register new service due to too many entries in SRV table.

316-755-14 Message buffer full. Full queue.

316-755-19 SESS system control broken or too many IPC messages.

316-755-26 Disk write error. Software error.

316-755-28 Cancel request failed.

316-755-35 OS corrupt. Software corrupt. Data store corrupt.

316-755-46 Mismatched data type during object write. Software configuration error or request mishandled configuration index data.

316-755-47 Failed to repair the permission of the current file being checked.

316-755-67 Cancel request failed.

316-755-90 Software limit reached.

316-755-92 Invalid IPC Data Received.

316-755-93 Unable to initialize with IFS.

316-755-99 Unable to abort job fault.

316-756-09 Service not registered.

316-756-14 Client provided wrong binding information. Client not required as RPC server.

316-756-26 Software error.

316-756-28 Range String Error.

316-756-35 OS corrupt. Software error. NVM error.

316-756-46 Poll select failed.

316-756-47 Executable missing or corrupt. Invalid test parameters.

316-756-66 Unable to read NVM value.

316-756-67 Unable to read NVM value.

316-756-92 Invalid IPC Data Received.

316-756-93 IPA operation failed.

Procedure



- If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-757-09 to 316-760-99 Network Faults 15 RAP

316-757-09 System RPC corrupt.

316-757-14 Programming bug. Attempted to shorten timeout.

316-757-19 System manager died or communications link failed.

316-757-26 Software error. Bad disk.

316-757-28 Unknown Message Received.

316-757-35 OS corrupt. Software error. NVM corrupt.

316-757-46 O/S failure.

316-757-47 Failed while trying to replace the file with a file from alt. partition. Configuration error.

316-757-66 Unable to write NVM.

316-757-67 Unable to write NVM.

316-757-92 Invalid IPC Data Received.

316-757-93 Unable to set ICS document state.

316-758-09 Invalid service failure reported.

316-758-14 RPC communications error to client.

316-758-19 Unable to unregister registration service.

316-758-26 Fault service encountered error trying to access its own queue ID.

316-758-28 State Error.

316-758-35 Unable to change EJS state to offline.

316-758-46 Failed setting up monitor routine with registration service.

316-758-47 Error searching for job ID during print job submission. Print submission tool failed.

316-758-66 Service run loop failed.

316-758-67 Service loop failed.

316-758-93 Unable to obtain data store object handle.

316-759-09 Software error.

316-759-14 Request for wildcard from non-NC

316-759-19 Network controller failed cold reset 3 times in a row.

316-759-26 Service requesting information of fault service. Software error.

316-759-28 SC Init Fault.

316-759-46 Process no in correct state, O/S failure.

316-759-47 Failed to abort the requested process.

316-759-66 OA event register failed.

316-759-67 OA event register failed.

316-759-93 Unable to create dat file.

316-760-09 Software error. Check fault log for more specific reasons.

316-760-14 Software error. Calling service not registered.

316-760-19 Any network controller startup.

316-760-26 Software failure.

316-760-28 Unable to Ack SC.

316-760-46 Software failure.

316-760-47 Found incorrect checksum partition 1 during software verify check. Bad disk and bad software.

316-760-67 Create list failed.

316-760-68 SRS returns to login service. Invalid fields, invalid data or missing data.

316-760-93 Job report failure from CCM.

316-760-99 RPC failure. CCM not responding.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-761-09 to 316-765-93 Network Faults 16 RAP

316-761-09 Software error. Check fault log for more specific reasons.

316-761-14 Invalid RPC data.

316-761-19 Any network controller shut down.

316-761-26 Unable to become client of UI.

316-761-28 Unable to submit a job.

316-761-46 Hardware failure.

316-761-47 Failed to initialize. Files needed for software verify.

316-761-67 Failed to retrieve public list.

316-761-68 Login gets no response from SRS.

316-761-93 Image conversion to TIFF failed.

316-761-95 Unable to read template pool configuration information.

316-762-09 Netware process failed. Software error. Check fault log for more specific reasons.

316-762-14 Invalid internal table type.

316-762-19 DC platform mgr communication error.

316-762-26 Unable to become client of SCS diagnostic service.

316-762-46 Hardware failure.

316-762-47 Missing file found during software verify check. Disk access problem. Configuration problem.

316-762-67 Invalid index for recipient list.

316-762-68 Service registry bad data corrupted.

316-762-93 IFS Image done call failed.

316-762-95 Unable to read document repository configuration information.

316-763-09 Software error. Check fault log for more specific reasons.

316-763-14 Reached internal limit for events.

316-763-19 System manager died, its platform crashed or RPC comm corrupt.

316-763-26 No acknowledgment to RPC message. RPC timeout.

316-763-46 Hardware failure.

316-763-47 Invalid permission found during software verify check.

316-763-67 Failed to retrieve LDAP list.

316-763-93 Document image count not found.

316-763-95 Internal destination error.

316-764-09 Apple talk process failure. Software error. Check fault log for more specific reasons

316-764-14 Internal logic error.

316-764-19 System call to signal failed.

316-764-26 Fault Service Encountered Error Trying to get IPC Message.

316-764-46 Hardware failure.

316-764-47 Found incorrect checksum during software verify check. Bad disk and bad software.

316-764-67 Create list failed.

316-765-09 Software error. Check fault log for more specific reasons.

316-765-19 Set status failed.

316-765-26 Fault Service Call to PSW Callback failed.

316-765-46 Software failure.

316-765-47 Novell daemon not running.

316-765-67 Failed to retrieve recipient list.

316-765-93 Unable to access data store.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-766-09 to 316-772-95 Network Faults 17 RAP

316-766-09 Adobe process failure. Check faults log for more specific reasons.

316-766-19 DM admin error.

316-766-26 Fault Service Call to UI Callback failed.

316-766-46 Software failure.

316-766-47 No servers responded.

316-766-67 Failed to bind to LDAP server.

316-766-93 TIFF handle has become null.

316-766-95 Cannot create image file name.

316-767-09 Software error. Check fault log for more specific reasons.

316-767-19 Request to cancel spooling job error. Job map library unable to cancel job.

316-767-26 Fault Service Call to RDT Callback failed.

316-767-46 Software failure.

316-767-47 Server name in configuration list is not up.

316-767-67 Error performing LDAP search.

316-767-93 Get document image count failed.

316-767-95 Cannot determine filing policy for transfer.

316-768-09 Software error. Check fault log for more specific reasons.

316-768-19 Job map library unable to hold or release jobs.

316-768-46 Software failure.

316-768-47 Network controller not attached to server.

316-768-67 Error performing public search.

316-768-93 Increment image count failed.

316-768-95 Cannot get network advisory lock file name.

316-769-09 Software error. Check fault log for more specific reasons.

316-769-19 Novell network failed to respond to request.

316-769-46 Software failure.

316-769-47 Network controller not attached to the print gueue.

316-769-67 Failed to cancel search request.

316-769-93 IFS de-register call failed.

316-769-95 Cannot determine appropriate lock name and address.

316-770-09 Software error. Check fault log for more specific reasons.

316-770-19 SESS/DM job command not processed.

316-770-46 Software failure.

316-770-47 Network controller attached to both queue and server.

316-770-67 Required attribute missing.

316-771-09 Software error. Check fault log for more specific reasons.

316-771-19 UI/PSW/RDT/ RPC corrupt.

316-771-46 Software failure.

316-771-47 Failed to configure novell network.

316-772-09 Software error. Check fault log for more specific reasons.

316-772-19 Software error.

316-772-46 TCPIP address already being used.

316-772-47 Failed doing registration or RPC call.

316-772-95 Invalid transfer request.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-770-09 to 316-779-95 Network Faults 18 RAP

316-773-09 Software error. Check fault log for more specific reasons.

316-773-19 Software error.

316-773-46 Failed requesting platform reset.

316-774-09 Check fault log for more specific reasons.

316-774-19 Client provided wrong binding info. Client not registered as RPC server. System RPC info is corrupt.

316-774-46 BOOTP status file error.

316-775-19 Data store not configured. Software error.

316-775-46 TCPIP missing configuration data.

316-775-95 Cannot create temporary file name.

316-776-09 Software error. Check fault log for more specific reasons.

316-776-19 Software error.

316-776-46 TCPIP invalid interface.

316-776-95 Cannot clean up after job completion.

316-777-09 Software error. Check fault log for more specific reasons.

316-777-19 Software error. Data store corrupt, missing configuration.

316-777-46 TCPIP invalid addressing.

316-777-95 Cannot log requested network server.

316-778-09 Software error. Check fault log for more specific reasons.

316-778-19 Software error.

316-778-46 TCPIP socket failure.

316-778-95 Cannot generate confirmation sheet.

316-779-00 System manager power saver complete callback failed. System manager failed or communications link failed.

316-779-09 Software error. Check fault log for more specific reasons.

316-779-19 System manager callback SM power save completed failed.

316-779-46 TCPIP interface attach.

316-779-47 SESS diagnostic failure.

316-779-95 Cannot create the template/job log name.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-780-00 to 316-789-47 Network Faults 19 RAP

316-780-00 Power save request timeout.

316-780-09 Software error. Check fault log for more specific reasons.

316-780-19 Power saver request timeout.

316-780-46 TCPIP enable interface.

316-780-47 SESS diagnostic failure.

316-780-95 Cannot determine the remote directory.

316-781-09 Software error. Check fault log for more specific reasons.

316-781-19 Customer software upgrade file is corrupted on transfer.

316-781-46 TCPIP NVRAM failure.

316-781-47 SESS diagnostic failure.

316-782-09 Network controller configuration synchronization process failure. Software error. check fault log for more specific reasons.

316-782-19 Software upgrade manifest file does not match software upgrade files.

316-782-46 TCPIP gateway failure.

316-782-47 SESS diagnostic failure.

316-783-09 Software error. IPC failure. SC not processing IPC.

316-783-19 Network controller does not enter upgrade mode. Network controller does not respond to upgrade prep command.

316-783-46 TCPIP host file failure.

316-783-47 SESS diagnostic failure.

316-784-09 Software error. Registration service out of date.

316-784-19 Software upgrade aborted, IOT failed to enter upgrade mode. IOT does not respond to upgrade prep command.

316-784-46 TCPIP resolve file failure.

316-784-47 SESS diagnostic failure.

316-785-09 Network controller agent process failure. Software error. Check fault log for more specific reasons.

316-785-19 UI does not respond to upgrade prep command.

316-785-46 TCPIP resolve file failure.

316-785-47 SESS diagnostic failure.

316-786-09 Software error. Check alt log for more specific reasons.

316-786-19 Network controller ntar of upgrade file fails.

316-786-46 TCPIP ELT file failure.

316-786-47 SESS diagnostic failure.

316-787-09 Software error. Check fault log more specific reasons.

316-787-19 Network controller times out. Cannot communicate with IOT.

316-787-46 TCPIP IPC failure.

316-787-47 SESS diagnostic failure.

316-788-09 Software error. Check fault log for more specific reasons.

316-788-19 Option load failure software.

316-788-46 Failed performing dynamic DNS update.

316-788-47 SESS diagnostic failure.

316-789-09 Software error. Check fault log for more specific reasons.

316-789-19 Option load failure software.

316-789-46 Failed performing autonet IP process.

316-789-47 SESS diagnostic failure.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-790-09 to 316-799-47 Network Faults 20 RAP

316-790-09 Software error. Check fault log for more specific reasons.

316-790-19 Option load failure software.

316-790-46 IPv6 address error.

316-790-47 SESS diagnostic failure.

316-791-09 Software error. Check fault log for more specific reasons.

316-791-19 Scan to file DLM is not defined.

316-791-46 DHCP V6 failure

316-791-47 SESS diagnostic failure.

316-792-09 Software error. Check fault log for more specific reasons.

316-792-19 LAN fax DLM is not defined.

316-792-47 SESS diagnostic failure.

316-793-09 Software error. Check fault log for more specific reasons.

316-793-19 Job based accounting DLM is not defined.

316-793-47 SESS diagnostic failure.

316-794-09 Cross platform synchronization error.

316-794-19 Install password mismatch.

316-794-47 SESS diagnostic failure.

316-795-09 Software error. Check fault log for more specific reasons.

316-795-19 Option load failure software.

316-795-47 SESS diagnostic failure.

316-796-09 Software error. Check fault log for more specific reasons.

316-796-19 Option load failure software.

316-796-47 SESS diagnostic failure.

316-797-09 Software error. Check fault log for more specific reasons.

316-797-19 Option load failure software.

316-797-47 SESS diagnostic failure.

316-798-09 Software error. Check fault log for more specific reasons.

316-798-19 Option already enabled.

316-798-47 SESS diagnostic failure.

316-799-09 Software error. Check fault log for more specific reasons.

316-799-19 Option already enabled.

316-799-47 SESS diagnostic failure.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-800-09 to 316-809-47 Network Faults 21 RAP

316-800-09 List access failure (create, add, find, delete.)

316-800-19 Option not supported.

316-800-46 Unable to connect to device when setting up IP over Ethernet.

316-800-47 SESS diagnostic failure.

316-801-09 Invalid SESS event/IPC error.

316-801-19 Serial mismatch.

316-801-46 Unable to connect to device when setting up IP over token ring.

316-801-47 SESS diagnostic failure.

316-802-09 Web service edge client process death.

316-802-19 Counters do not match.

316-802-46 Error occurred when attempting to get the IP data from the DHCP server.

316-802-47 SESS diagnostic failure.

316-803-09 Web service edge client process death.

316-803-46 Unable to get the IP address from the RARP server.

316-803-47 SESS diagnostic failure.

316-804-09 Web service edge client process death.

316-804-47 SESS diagnostic failure.

316-805-09 Web service edge client process death.

316-805-19 Accounting install failed.

316-805-47 SESS diagnostic failure.

316-806-00 CPI death error.

316-806-09 CPI service unavailable.

316-806-19 Counters did not increment.

316-806-47 SESS diagnostic failure.

316-807-00 Job log service death error.

316-807-09 Job log service unavailable.

316-807-19 State change failed.

316-807-47 SESS diagnostic failure.

316-808-00 Job tracker death error.

316-808-09 Job tracker service unavailable.

316-808-47 SESS diagnostic failure.

316-809-00 Kerberos death error.

316-809-09 Kerberos service unavailable.

316-809-47 SESS diagnostic failure.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-810-00 to 316-839-47 Network Faults 22 RAP

316-810-00 Scan to distribution death error.

316-810-09 Scan service available.

316-810-19 Failed to remove accounting.

316-810-47 SESS diagnostic failure.

316-811-00 SMB death error.

316-811-09 SMB service unavailable.

316-811-19 Failed to initiate operation.

316-811-47 SESS diagnostic failure.

316-812-00 TCP/IP death error.

316-812-09 TCPIP service unavailable.

316-812-19 Failed to change the enable upgrade flag.

316-812-47 SESS diagnostic failure.

316-813-00 WS scan temp death error.

316-813-09 Scan service unavailable

316-813-19 NC may be unavailable

316-813-47 SESS diagnostic failure.

316-814-00 Scan compressor death error.

316-814-09 Scan compressor service unavailable.

316-814-47 SESS diagnostic failure.

16-814-19 DEF is enabled on the NC

316-815-09 Service registry process death.

316-815-47 SESS diagnostic failure.

316-816-09 XEIP service not responding.

316-816-47 SESS diagnostic failure.

316-817-47 SESS diagnostic failure.

316-818-47 SESS diagnostic failure.

316-819-47 SESS diagnostic failure.

316-820-47 SESS diagnostics failure.

316-821-47 SESS diagnostics failure.

316-822-47 SESS diagnostics failure.

316-823-47 SESS diagnostics failure.

316-824-47 SESS diagnostics failure.

316-825-47 SESS diagnostics failure.

316-826-47 SESS diagnostics failure.

316-827-47 SESS diagnostics failure.

316-828-47 SESS diagnostics failure.

316-829-47 SESS diagnostics failure.

316-830-47 Unable to get the default router for the device.

316-831-47 Unable to get the subnet mask for the device.

316-832-47 Failure while getting local IP devices on the network.

316-833-47 Failure while perfuming ARP command.

316-834-47 Failed to get a default file server from the config. utility.

316-835-47 Failed to the novell frame type from the config. utility.

316-836-47 Failed SESS call to initialize netware.

316-837-47 Diagnostic name returned from SESS not found in list.

316-838-47 Failed to setup catching alarm signals for repair timeouts.

316-839-47 Failure to repair a file of file length 0. Corrupt disk.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-840-47 to 316-879-47 Network Faults 23 RAP

316-840-47 Corrupt OS, software error.

316-841-47 Corrupt file system.

316-842-47 Machine out of configuration. Software error.

316-843-47 Corrupt OS machine in bad running state. Software error.

316-844-47 Corrupt OS machine in bad running state. Software error.

316-845-47 Corrupt OS machine in bad running state. Software error.

316-846-47 Corrupt OS machine in bad running state. Software error.

316-847-47 Corrupt OS machine in bad running state. Software error.

316-848-47 Error reading the fault file from fault service.

316-849-47 Error creating command array from stream editor.

316-850-47 Failed adding stream to stream editor array.

316-851-47 Failed on call to stream editor.

316-852-47 Unable to read a fault for the error report.

316-853-47 Failed getting the last reset time for the error report.

316-854-47 Failed calling fault service for the error report.

316-855-47 Failed sending event for diagnostic test.

316-856-47 Failed doing a unix c system call.

316-857-47 Abort request, unable to find process.

316-858-47 Failed to dump the fault logs.

316-859-47 Software verify test returned error.

316-860-47 No machines responded to an ICMP echo request.

316-861-47 Failed setting up monitor routine with registration service.

316-862-47 Command not valid to cancel.

316-863-47 Illegal buffer length.

316-864-47 Illegal local session number.

316-865-47 SESS NETBIOS test session closed.

316-866-47 SESS NETBIOS test command cancelled.

316-867-47 SESS NETBIOS test name de-registered. Name de-registered, session active.

316-868-47 SESS NETBIOS test local session table full. Local session table full.

316-869-47 SESS NETBIOS test no listen in remote computer.

316-870-47 SESS NETBIOS test illegal name number.

316-871-47 SESS NETBIOS test cannot find name or no answer.

316-872-47 SESS NETBIOS test name in use.

316-873-47 SESS NETBIOS test name deleted.

316-874-47 SESS NETBIOS test session abnormal end.

316-875-47 SESS NETBIOS test name conflict. Name conflict on network.

316-876-47 Software verify setup SIGTERM failed.

316-877-47 SESS PCI test unknown error.

316-878-47 SESS PCI test failed to open driver.

316-879-47 SESS PCI test failed flushing stream buffer.

Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316-880-47 to 316-929-19 Network Faults 24 RAP

316-880-47 SESS PCI test failed on put message call.

316-881-47 SESS PCI test invalid argument.

316-882-47 SESS PCI test failed on put message call.

316-883-47 SESS PCI test failed on ioctl call.

316-884-47 SESS PCI test control flag area too small.

316-885-47 SESS PCI test driver not initialized.

316-886-47 SESS PCI test info request failed.

316-887-47 SESS PCI test driver failed to register.

316-888-47 SESS PCI test driver failed to unregister.

316-889-47 Software verify get data failed.

316-890-47 Software verify get next proc failed.

316-891-00 Edge server auto registration failed

316-891-19 SMart eSolutions failed to register

316-891-47 Invalid RPC submit job Data Received.

316-892-00 Edge server communication failed

316-892-19 SMart eSolutions cannot contact Edge Host

316-892-47 Invalid RPC Data Received; Unknown diagnostic action.

316-893-47 Invalid RPC Data Received; Invalid job type.

316-894-47 Invalid RPC disk diagnostics Data Received.

316-895-47 SESS Apple test zip failure - network unreachable.

316-900-19 Failed to open SMC driver.

316-901-19 Failed to make ioctl call using SMC driver.

316-902-19 Address specified is invalid.

316-903-19 Result from joctl does not match FD.

316-904-19 Invalid ioctl request.

316-905-19 Unknown joctl failure.

316-906-19 Memory allocation failed for net upgrade.

316-907-19 Attempt to get pinned memory failed

316-908-19 Error opening file.

316-909-19 Error transfer data to CCM.

316-910-19 Failed untar file.

316-911-19 Error changing directory.

316-912-19 Install script did not execute.

316-913-19 Write failure to file.

316-914-19 Shared memory was corrupted.

316-915-19 Open failed.

316-916-19 CRC failed.

316-917-19 Failed to close on checksum.

316-918-19 CRC comparison failed.

316-919-19 Restart request failed.

316-920-19 ELT daemon start failed.

316-922-19 NVM store failed.

316-923-19 Failed saving persistent data.

316-924-19 Failed in restoring persistent data.

316-925-19 Failed saving web config data.

316-926-19 Failed to save data store values.

316-927-19 Failed to restore web config data.

316-928-19 Failed to install files.

316-929-19 Failed to restore data store values.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

If a single occurrence, take no action.

316-930-19 to 316-971-19 Network Faults 25 RAP

316-930-19 Failed to remove jobs.

316-931-19 Failed to close on SMC driver.

316-932-19 NVM write failure.

316-933-19 Failed to remove file.

316-934-19 Job based accounting not enough DC memory.

316-935-19 Auto-upgrade failed. Cannot read/write attributes to machine.

316-936-19 Auto-upgrade failed. Cannot connect to remote server.

316-937-19 Auto-upgrade failed. Cannot access directory on remote server.

316-938-19 Auto-upgrade failed. Cannot access directory remote server.

316-939-19 Auto-upgrade failed. Multiple upgrade files found on remote server.

316-940-19 Auto-upgrade failed. Machine in diagnostics mode.

316-941-19 Auto-upgrade failed. Network controller cannot communicate with main controller.

316-942-19 Auto-upgrade failed upgrade is invalid. Incompatible with main controller.

316-943-19 Auto-upgrade failed. Upgrade file invalid. Installed software is more recent.

316-944-19 Auto-upgrade failed. Upgrade file is invalid. File corruption detected.

316-945-19 Auto-upgrade failed. Upgrade file is invalid. File not appropriate for current machine software.

316-946-19 Failed install scan to e-mail.

316-947-19 Failed to install internet fax.

316-948-19 Remove of scan to e-mail option failed.

316-949-19 Remove of internet fax option failed.

316-950-19 Scan to e-mail image processing hardware not available.

316-951-19 Internet fax image processing hardware not available.

316-952-19 Scan to e-mail memory size error.

316-953-19 Internet fax memory size error.

316-954-19 Set by internet fax service when it gets no response from service registry when trying to register.

316-955-19 Internet Fax application un-registration error.

316-956-19 E-mail application registration error.

316-957-19 E-mail application un-registration error.

316-958-19 Failed to install kerberos.

316-959-19 Failed to install SMB.

316-960-19 Failed to install SMTP.

316-961-19 Failed to remove kerberos.

316-962-19 Failed to remove SMB.

316-963-19 Failed to remove SMTP.

316-964-19 Failed to cancel operation.

316-965-19 Failed to send platform unavailable.

316-966-19 Failed to install job tracker.

316-967-19 Failed to remove job tracker.

316-968-19 Failed to install POP3.

316-969-19 Failed to remove POP3.

316-970-19 Over allocation of contiguous memory.

16-971-19 Auto-Upgrade not attempted due to machine being offline.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-975-19 to 316-989-19 Network Faults 26 RAP

316-975-19 Failed to install immediate image overwrite.

316-976-19 Failed to install immediate image overwrite.

316-977-00 Queue list jobs failure. Request to SESS's document manager failed for list jobs. Corrupt data sent to DM. Communication problem. DM failed.

316-977-19 Network controller PM failed to remove disk overwrite. Option load failure, software.

316-977-35 Queue list jobs failure. Request to SESS's document manager failed for list jobs. Corrupt data sent to DM. Communication problem. DM failed.

316-978-00 Unable to get copy jobs. Invalid data communication problem.

316-978-19 Network controller PM failed to remove job overwrite. Option load failure software.

316-978-35 Unable to get copy jobs. Invalid data communication problem.

316-979-00 Unknown attribute returned. Invalid data returned data store corrupt.

316-979-19 Network controller PM failed to remove embedded fax. Option load failure, software.

316-979-35 Unknown attribute returned. Invalid data returned. Data store corrupt.

316-980-00 DM request handle NULL. Null data received from DM.

316-980-19 Network controller PM failed to install G4. Option load failure, software.

316-980-35 DM request handle NULL. Null data received from DM.

316-981-00 Object handler corrupted. Null handle returned. Data store corrupt.

316-981-35 Unable to obtain job handle which is used to fetch data store attributes.

316-982-00 Unknown finishing value returned. Unable to map attribute or invalid data.

316-982-19 Failed to remove embedded fax.

316-982-35 Unknown finishing value returned. Unable to map attribute or invalid data.

316-983-00 Unknown offset value returned. Unable to map attribute or invalid data.

316-983-19 Failed to remove G4.

316-983-35 Unknown offset value returned. Unable to map attribute or invalid data.

316-984-00 Unknown job state reason value returned. Unable to map attribute or invalid data.

316-984-19 CPSR Memory Size Error.

316-984-35 Unknown job state reason value returned. Unable to map attribute or invalid data.

316-985-00 Unknown medium type value returned. Unable to map attribute or invalid data.

316-985-35 Unknown medium type value returned. Unable to map attribute or invalid data.

316-986-00 Unknown collection value returned. Unable to map attribute or invalid data.

316-986-35 Unknown collection value returned. Unable to map attribute or invalid data.

316-987-00 Unknown tray value returned. Unable to map attribute or invalid data.

316-987-35 Unknown tray value returned. Unable to map attribute or invalid data.

316-988-00 Unknown signature value returned. Unable to map attribute or invalid data.

316-988-35 Unknown signature value returned. Unable to map attribute or invalid data.

316-989-00 Unknown plex value returned. Unable to map attribute. Invalid information received 2.

316-989-35 Unknown plex value returned. Unable to map attribute. Invalid information received 3.

316-985-19 Network scanning application registration error.

316-986-19 Network scanning application un-registration error.

316-987-19 Server fax application registration error.

316-988-19 Server fax application un-registration error.

316-989-19 Disk encryption operation failed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

1. If a single occurrence, take no action.

316-990-00 to 316-999-35 Network Faults 27 RAP

316-990-00 Promote response from DM received with errors. Software error.

316-990-35 Promote response from DM received with errors. Software error.

316-991-00 Request to DM to promote job failed. Failure status returned on call to request library to promote job. Data store problem.

316-991-35 Request to DM to promote job failed. Failure status returned on call to request library to promote job. Data store problem.

316-992-00 Unable to build SESS job identifier for promote routing that converts the job ID returned. Null memory allocation error.

316-992-35 Unable to build SESS job identifier for promote routine that converts the job ID returned. Null memory allocation error.

316-993-00 Unable to get admin name from data store for promote. Request library call failed.

316-993-35 Unable to get admin name from data store for promote. Request library call failed.

316-994-00 Cancel response from DM received with errors. Software error.

316-994-35 Cancel response with errors. A job could not be cancelled.

316-995-00 Request to DM to cancel job failed.

316-995-35 Request to DM to cancel job failed.

316-996-00 Routine that converts the job ID returned. Null memory allocation error.

316-996-35 Routine that converts the job ID returned. Null memory allocation error.

316-997-00 Request library call failed.

316-997-35 Request library call failed.

316-998-00 Job not found in held table.

316-998-35 Job not set to released state. Job not found in held table.

316-999-00 Could not obtain job PIN for authorization.

316-999-35 Could not obtain job PIN for authorization.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- For multiple occurrences, go to the 316E Network Fault Checkout RAP.

316A Workflow Scanning Error Entry RAP

Use this RAP when the customer reports network failures. e.g. Cannot connect to the scan server when using the FTP or SMB protocols, or when a folder on the scan server cannot be opened.

NOTE: The fault message will be printed on the confirmation report. The report may take several minutes to print after scanning the document.

Initial Actions

Consult your manager before troubleshooting the customer's network, as the policy varies according to region.

Procedure

NOTE: If it is possible to log in to the CWIS by entering the IP address of the machine, then the network controller on the single board controller PWB is good.

Perform the steps that follow:

- 1. Check that the machine's date and time are correctly set. Refer to GP 31.
- 2. Print a configuration report.
- Check with the customer that the printing of the confirmation report is enabled. If necessary, ask the customer to enable printing of the confirmation report.
- 4. Ensure that the machine is configured for scan to file. Check the back of the configuration report under the heading Workflow Scanning (Default Repository Protocol). If an IP address or name is not listed, ask the customer to configure the machine before continuing.
- Perform the relevant procedure:
 - 316B FTP or SMB Unable to Connect to Remote Server RAP.
 - 316C Remote Directory Lock Failed RAP.

316B FTP or SMB Unable to Connect to Remote Server RAP

Either the machine cannot connect, find or log in to the scan server.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: The FTP/SMB protocol will be followed by a colon and port number, :21 is for FTP and :139 is for SMB.

Scan the document using the default template and 1 other template. The fault is present on both templates.

Y N

The template that failed is incorrectly configured. Ask the customer or System Administrator to verify the settings of the web template that failed, including the login password.

Ask the customer to open the machine's CWIS page. The machine's CWIS page can be opened.

Y N

Look at the front of the configuration report. Ensure that HTTP is enabled and set to port 80. The settings are correct.

Y N

Enable HTTP, GP 32 and set the port to 80 on the UI. Restart this RAP from the beginning. If this path has been followed previously, escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Disconnect the network cable from the machine. Ensure the PWS network adaptor settings are set to Auto. Use a crossover cable, PL 26.10 Item 6 to connect the PWS to the machine. Either of the 2 LEDs on the SBC PWB or the PWS are lit, indicating a connection.

' N

Perform the steps that follow:

- Change the network speed setting of the machine, GP 35.
- If either of the 2 LEDs on the SBC PWB or the PWS are not lit, repeat the steps in GP 35.
- If the LEDs light, use the new network speed setting. Inform the customer that the network speed has been changed. Then follow the Yes path from this step.
- 4. If the LEDs do not light, perform the 303D SBC PWB Diagnostics RAP.

Ensure the firewall of the PWS is disabled, GP 36. Ping the machine from the PWS, GP 33.

NOTE: Re-enable the PWS firewall after completion of this procedure.

The machine responds to the ping request.

ΥI

Perform an AltBoot, GP 4.

The machine software is up to date.

' N

Upgrade the software, GP 4. The fault persists.

Υ

Perform SCP 5 Final Actions.

Perform the Customer's Settings Check. Changes were made to the customer's settings.

Y N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Retry the job. The job was successful.

,

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform SCP 5 Final Actions.

Perform the Customer's Settings Check. Changes were made to the customer's settings.

Y 1

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Retry the job. The job was successful.

- 1

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform SCP 5 Final Actions.

Ask the customer to ping the scan server's IP address or name.

NOTE: The scan server is the computer that the job is being sent to. The scan server's IP address or name is displayed on the confirmation report.

The customer can ping the scan server.

1

В

Check the configuration report for default gateway IP address listed under TCP/IPv4 Settings. A default gateway IP address is listed.

N

Perform the Customer's Settings Check. Changes were made to the customer's settings.

/ N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Retry the job. The job was successful.

' I

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform SCP 5 Final Actions.

The customer can ping the default gateway IP address.

Υ

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform the Customer's Settings Check. Changes were made to the customer's settings.

Y N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Retry the job. The job was successful.

N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform SCP 5 Final Actions.

Perform the Customer's Settings Check. Changes were made to the customer's settings.

' N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Retry the job. The job was successful.

Y N

Escalate the fault to the System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

Perform SCP 5 Final Actions.

Customer's Settings Check

NOTE: Both the configuration and confirmation reports are required to check the customer's settings. Corrections must be made through the machine's CWIS page.

Check the items that follow with the customer. Ask the customer to correct any errors:

1. That the scan server is switched on and online.

NOTE: The scan server is the computer that the job is being sent to.

- That the scan server's IP address or name is correct.
- 3. That the path and user name are correct.
- (SMB protocol only) That the Share name is correct; referred too as the Volume on the configuration report.
- Check with System Administrator that the correct password has been entered on the machine's CWIS page.

NOTE: The password is not printed on the configuration or confirmation reports.

316C Remote Directory Lock Failed RAP

Use this RAP when the customer reports that the machine has logged in to the scan server, but cannot create a folder inside of the scan directory. The creation of the scan folder is necessary for the machine to successfully complete the can to file job.

NOTE: The scan server is the computer that the job is being sent to.

Procedure

The machine's login name that it is using to log in to the scan server, for this file repository, does not have sufficient rights. Ask the customer to verify the rights for this user at the scan server, or escalate the problem to their System Administrator. If the customer does not have a System Administrator, they should contact the Customer Support Centre or request a Xerox analyst troubleshoot their network which will be subject to a charge.

316D Wireless Connectivity RAP

Use this RAP when the customer reports wireless network failures when using the Xerox wireless network adapter kit.

NOTE: The customer must use the Xerox wireless network adapter kit, PL 31.12 Item 10. Other wireless network adapters are not supported.

NOTE: Wireless connectivity instructions are contained in the System Administrator Guide.

Initial Actions

Consult your manager before troubleshooting the customer's network, as the policy varies according to region.

Procedure

The customer reports wireless network failures when using the Wi-Fi Direct feature.

' I

- Check that the USB wireless network adapter, PL 3.22 Item 20 is plugged into a USB port on the machine.
- If the USB wireless network adapter is connected using the USB extension cable, PL 3.22 Item 21, check that the extension cable is also plugged into a USB port on the machine.
- 3. Print a configuration report.
 - a. Check with the customer that printing of configuration reports is enabled. If necessary, ask the customer to enable printing of the configuration report.
- Ensure that the USB ports are enabled.
 - a. Check the configuration report under the heading Connectivity Physical Connections.
 - If Software Tools is not listed next to USB Connection Mode, ask the customer to enable USB. Or enter Customer Administration Tools, GP 24. Enable USB.
 - i. Refer to the USB Port Security Setting Check in GP 4.
 - ii. Refer to GP 28 USB Connection Mode.
- Confirm the USB port is functional.
 - a. Check that the LED on the wireless network adapter flashes when the machine is in standby.
 - b. Connect the wireless network adapter to a different USB port if available.
 - Perform dC361 NVM Save. If the NVM can be saved to a USB flash drive, the USB port is functional.

NOTE: . It is not necessary to perform the NVM restore procedure.

- d. If the USB port checks fail, perform the 303D SBC PWB Diagnostics RAP.
- Ensure that the machine is configured for wireless printing.
- a. Check the configuration report under the heading Connectivity Physical Connections.
- If wireless is disabled, ask the customer to enable wireless printing. Or enter Customer Administration Tools, GP 24. Enable wireless printing.
 - Select Network Settings.
 - Select Network Connectivity.
 - Select Wireless.
 - iv. Select OK.
 - Select Enable Wireless Network.
- Check the network name listed next to SSID on the configuration report.

- If the network name (SSID) does not match the customer's wireless network, ask the customer to configure the wireless network setup before continuing.
- e. Check the IP address under the heading Connectivity Protocols.
- f. Ask the customer to confirm that the correct IP address is listed under TCP/ IPv4 or TCP/IPv6.
- g. If the wireless IP address is incorrect or is not present, ask the customer to configure the wireless network setup before continuing.
- h. Check the wireless connection status on the configuration report. If it displays as Authenticating, ask the customer to check and configure the wireless network settings in Internet Services before continuing - in particular check the encryption, authentication and user name settings.
- Confirm that the customer's wireless network can be detected at the machine's location.
 - a. Ask the customer to confirm that the wireless network is switched on and can be received at the machine's location. Or use your PWS or a smartphone to detect the customer's wireless network.
 - To use a PWS to confirm the customer's wireless network can be detected, perform the relevant procedure below.

Windows 7

- Click on the Wireless Networking icon in the notification area of the task bar. If necessary, click on the Show hidden icons button to show the wireless networking icon.
- ii. Confirm that the customer's SSID is displayed in the list that pops up.

Windows XP

- Right-click on the **Network Connection** icon in the notification area of the taskbar.
- Click on View Available Networks.
- iii. Confirm that the customer's SSID is displayed in the list that pops up.

NOTE: . Do not attempt to connect the PWS or smartphone to the customer's wireless network.

- 8. If the wireless network signal strength is weak, ensure that the wireless network adapter is connected via the USB extension lead. If possible change the mounting position of the adapter to improve the reception. To view the signal strength, enter Customer Administration Tools, GP 24.
 - a. Select Network Settings.
 - b. Select Network Connectivity.
 - c. Select Wireless.
 - d. The signal strength is displayed in the text frame.
 - e. Move the wireless network adapter and extension lead until the strongest signal strength is found.
- 9. If necessary, install a new wireless network adapter kit, PL 31.12 Item 10.

Check the configuration of the Wi-Fi Direct feature:

- 1. In Xerox® CentreWare® Internet Services, click Properties > Connectivity > Setup.
- 2. For Network, next to Wi-Fi Direct, click Edit.
- 3. To modify the Wi-Fi Protected Setup (WPS) Name, for Device Name, select Edit.
- 4. For Subnet Address Prefix, type the subnet address prefix as needed.
- Click Apply.

316E Network Fault Checkout RAP

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure

Refer to the Active Messages and Fault History to determine under what situation the fault is occurring. The fault is related to a specific job, client or Page Description Language (PDL).

Y N

Reload the software, GP 4. The fault persists.

Υ

Perform SCP 5 Final Actions.

Install new components as necessary:

- Hard disk drive, PL 3.22 Item 2.
- HDD cable, PL 3.22 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

The fault occurs on one particular job from one particular client.

/ N

The fault occurs on all jobs sent from one client.

N

The fault occurs with one job from any client.

N

Install new components as necessary:

- Hard disk drive, PL 3.22 Item 2.
- HDD cable, PL 3.22 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Another WorkCentre 5945/5955 machine is available.

N

Escalate the service call.

The fault is repeatable on both machines.

•

Reload the software, GP 4, on the faulty machine. If the fault persists, escalate the service call.

Inform field engineering that a Software Problem Action Report (SPAR) needs to be generated.

Have the System Administrator:

- check the network configuration on the client (compare to a working client).
- ensure that the client has the required resources.
- reload the print driver on the client.

If the fault persists, have the customer contact the customer support centre.

Have the customer reload the print driver on the affected workstation.

319-300-00 to 319-310-00 Hard Disk Drive Failure RAP

319-300-00 Unable to read or write data from the hard disk drive.

319-301-00 Unable to write data to the hard disk drive.

319-302-00 Bad data received from the hard disk drive (i.e. disk returned data other than a read or write operation in response to a read or write request from).

319-303-00 Unable to format the hard disk drive.

319-310-00 hard disk drive failed to return capacity information during power up.

Initial Actions

Switch off the machine, GP 14. Ensure all connectors on the SBC PWB are securely connected.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to Flag 1. Check that the HDD data cable between P/J853 on the SBC PWB and PJ211 on the hard disk drive, PL 3.22 Item 2, is correctly connected and not damaged. **The HDD data cable is good.**

Y N

Correctly connect the cable. If necessary, install a new HDD cable, PL 3.22 Item 4.

Go to Flag 2. Check the wiring between P/J852 on the SBC PWB and PJ211 on the hard disk drive. The wiring is good.

'N

Repair the harness, REP 1.2 or install a new HDD cable, PL 3.22 Item 4.

Go to Flag 2. Check for +5V between pins 3 and 4 on PJ211 at the hard disk drive. **+5V** was measured.

N

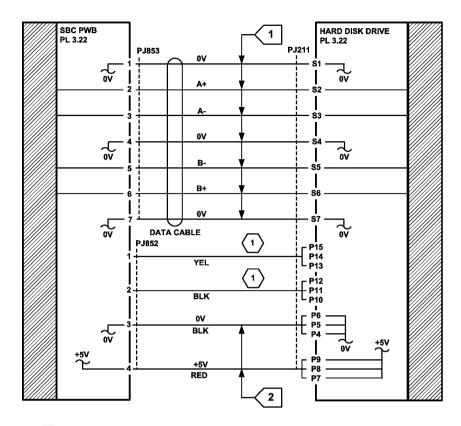
Check the voltages.

Refer to:

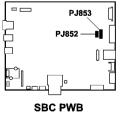
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

As necessary, perform the steps that follow:

- Reload the software using the forced AltBoot procedure, GP 4.
- Install a new hard disk drive, PL 3.22 Item 2.
- The 303D SBC PWB Diagnostics RAP.



1 THESE LINES ARE NOT USED BY THE HARD DISK DRIVE.



TW-1-0118-A

Figure 1 Circuit diagram

319-401-00, 319-402-00 Stress Out of Memory RAP

319-401-00 Out of memory caused by a stress document.

319-402-00 Out of memory caused by a stress job.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

If this fault persists for more than 5 minutes, switch off, then switch on the machine, GP 14. The fault has cleared.

Y N

Reload the software, GP 4.

Go to SCP 5 Final Actions.

319-403-00 EPC Out of Memory RAP

319-403-00 Out of memory with greater than 1 job in EPC.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

No service action is required. Re-scan the job.

319-409-00 Job Integrity Failure RAP

319-409-00 Video determined that it could not guarantee the integrity of the job being processed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Switch off, then switch on the machine, GP 14.
- Re-run all the uncompleted jobs.

319-410-00 to 319-410-13 Image Structure Failure RAP

319-410-00 The system detected a mark output time-out.

319-410-01 The system detected a mark output time-out.

319-410-02 The system detected a compress image time-out.

319-410-03 The system detected a decompress image time-out.

319-410-04 The system detected a merge image time-out.

319-410-05 The system detected a rotate image time-out.

319-410-06 The system detected a network Input failure.

319-410-07 The system detected an embedded fax send/receive failure.

319-410-08 The system detected a scan input failure.

319-410-09 The system detected a byte counter error.

319-410-10 The system detected the image set up was too late.

319-410-11 The system detected a DMA master abort.

319-410-12 The system detected a Huffman error, (image encoding error).

319-410-13 The system detected an EOR error.

Initial Actions

Check that dC131 NVM locations 801-068, mag compensation side 1 and 801-069, mag compensation side 2 are set to default.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

If this fault persists for more than 5 minutes, switch off, then switch on the machine, GP 14. Rerun the job. The fault has cleared.

The message "All jobs deleted due to system image error" is displayed and fault code 319-410-08 is logged in fault history.

Reload the software, GP 4.

Check the SBC PWB to scanner PWB power/comms harness and connectors.

Δ

Refer to:

- REP 1.2 Wiring Harness Repairs.
- WD 3
- SBC PWB. PJ854
- Scanner PWB, PJ411.

If necessary, install new components:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB, PL 60.20 Item 4.
- SBC PWB, PL 3.22 Item 3.

Perform SCP 5 Final Actions.

319-750-00 EPC Memory Change Detected RAP

319-750-00 The system detected that the EPC memory size configuration had changed during the power on sequence.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

No service action required. Re-run the job.

319-752-00 Image Rotation Detected RAP

319-752-00 The system detected that the image rotation configuration had changed during the Power On sequence.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. Re-run the job.

319-754-00 Hard Disk Drive Change RAP

319-754-00 The system detected that the hard disk drive configuration (present vs. not present) has changed during the power on sequence.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. Re-run the job. The fault has cleared.

Y

Perform the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP.

Perform SCP 5 Final Actions.

319-760-00 Test Patterns Missing From EPC RAP

319-760-00 Test patterns missing from EPC.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

320-302-00, 320-303-00 Fax Reset Failure RAP

The Fax module automatically reset itself.

320-302-00 Unexpected reset fault due to fax module hardware or software error.

320-303-00 Unrecoverable fault due to fax module hardware or software error.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

ΥĮ

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM Initialization**. Perform the routine, All Data. **The fault is cleared.**

′

Reload the software, GP 4. The fault is cleared.

N

Perform the 320G Fax Module Checkout RAP.

Perform SCP 5 Final Actions.

Perform SCP 5 Final Actions.

320-305-00 Fax System Low Memory Unrecoverable RAP

The fax module automatically reset itself.

320-305-00 Unrecoverable fax system low memory due to fax module hardware or software error

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

/ N

Perform SCP 5 Final Actions.

Clear the images from the fax module. Go to dC301 NVM Initialization. Select **Embedded Fax NVM Initialization**. Perform the routine, All Data. **The fault is cleared**.

. .

Reload the software, GP 4.

Perform SCP 5 Final Actions.

320-320-00 Fax Fault Not Cleared by Reset RAP

320-320-00 Five instances of an unrecoverable fax fault occurred and were not cleared by a card reset.

Initial Actions

- Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.
- Ensure the machine has either a W/TAG X-001 fax module or a W/TAG X-002 Cfax34 module installed, PL 20.05.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

Y N

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM initialization**. Perform the routine, **All Data**. **The fault is cleared**.

Y N

Reload the software, GP 4.

Perform SCP 5 Final Actions.

320-322-00 Non-Volatile Device Not Installed RAP

320-322-00 The non-volatile device was not detected on the fax module.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

Y I

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM initialization**. Perform the routine, **All Data**. The fault persists.

` I

Perform SCP 5 Final Actions.

Install a new fax PWB, PL 20.05 Item 7.

320-323-00, 320-324-00 Fax System Memory Low RAP

320-323-00 The fax system memory was low, less than 6Mb.

320-324-00 There was not enough memory to use the fax service.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

Y N

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM initialization**. Perform the routine, **All Data**. **The fault is cleared**.

' N

If necessary install a new fax PWB, PL 20.05 Item 7.

Perform SCP 5 Final Actions.

320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 Fax Network Line 1 Fault RAP

320-331-00 No communication via the PSTN 1 port.

320-338-00 Fax Communication Error at power up or reboot.

320-339-00 Internal fax module fault.

320-341-00 Miscellaneous basic card problems.

320-345-00 Fax port 1 modem failure.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

/ N

Perform SCP 5 Final Actions.

Check the connection between the fax module, PL 20.05 Item 1 and the fax connector PWB, PL 20.05 Item 4. **The connection is good.**

N

Install new components as necessary:

- Fax connector PWB, PL 20.05 Item 4.
- Fax PWB. PL 20.05 Item 7.

Check that the customer fax line is operational. Plug a phone into the fax line. Check for a dial tone. If a phone is not available, then use a line test tool, PL 26.10 Item 3. **The phone line connection is good.**

N

The fax line has a fault. Inform the customer to have the fax line checked by the telephone company.

Install new components in the order that follows:

- Telephone cable, PL 20.05 Item 3.
- Fax PWB, PL 20.05 Item 7.
- Fax connector PWB, PL 20.05 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

320-327-00, 320-332-00, 320-340-00 Fax Network Line 2 Fault RAP

320-327-00 Registers cannot be accessed on the Extended card.

320-332-00 No communication via the PSTN 2 port.

320-340-00 Fax port 2 modem failure.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

N

Perform SCP 5 Final Actions.

Check that the customer fax line is operational. Plug a phone into the fax line. Check for a dial tone. If a phone is not available, then use a line test tool, PL 26.10 Item 3. **The fax line connection is good.**

f |

The fax line has a fault. Advise the customer to have the fax line checked by the telephone company.

Install new components in the order that follows:

- Telephone cable, PL 20.05 Item 3.
- Fax PWB, PL 20.05 Item 7.

320-342-00 Fax File Integrity Fault RAP

320-342-00 An error occurred when accessing the file on a non-volatile device.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

Y N

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM initialisation**. Perform the routine, **All Data**. The fault is cleared.

Y

Reload the software, GP 4.

Perform SCP 5 Final Actions.

320-701-00 Fax Phone Book Download Failed RAP

320-701-00 The fax phone book download failed.

Initial Actions

Check the ground connection on the fax module. Refer to 301A Ground Distribution RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Reload the machine software, GP 4.
- 2. Perform the 303D SBC PWB Diagnostics RAP.

320-710-00, 320-711-00 Image Overwrite Error RAP

320-710 Immediate image overwrite error occurred on the fax module when overwriting the job.

320-711 On demand image overwrite error occurred on the fax module when overwriting the memory.

Initial Actions

Make a backup of the phone book and the customer settings. Refer to dC361 NVM Save and Restore.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. The fault persists.

′ N

Perform SCP 5 Final Actions.

Clear the fax module NVM. Go to dC301 NVM Initialization. Select **Embedded Fax NVM initialization**. Perform the routine, **All Data**. The fault is cleared.

' N

Perform an AltBoot, GP 4. The fault is cleared.

1

Install a new fax PWB, PL 20.05 Item 7. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform SCP 5 Final Actions.

Perform SCP 5 Final Actions.

320A Fax Entry RAP

Use this RAP to isolate components which contribute to a fax communications failure.

Initial Actions

- Check that the fax line cables are properly connected. Fax Line 1 from the telephone line
 outlet connects to the line 1 socket on the machine. Fax line 2 (if installed) from the telephone line outlet connects to the line 2 socket on the machine.
- Use a hand set to dial a remote number. Listen to the dial type, Dual Tone Multiple Frequency (DTMF or 'tone') or 'pulse'.
- Check the ground connection on the fax module. Refer to 301A Ground Distribution RAP.
- Check the Fault History. If the fault codes are 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 or 320-327-00, 320-332-00, 320-340-00, then perform the appropriate RAP.
- Enter Customer Administration Tools, GP 24. Select Service Settings / Embedded Fax Settings / Print Fax Reports. Print an activity report. Check for error codes.
- Select Service Settings / Embedded Fax Settings / Print Fax Reports. Print an options report. Check for any active feature that would inhibit the sending or receiving of a fax, such as:
 - Line 1 setup is set to 'Send and Receive'.
 - Select Service Settings / Embedded Fax Settings / Line 1 Setup to change if necessary.
 - Line 2 setup (if present) is set to 'Send and Receive'.
 - Select Service Settings / Embedded Fax Settings / Line 2 Setup to change if necessary.
 - Fax country setting is correct.
 - Select Service Settings / Embedded Fax Settings / Fax Country Setting to change it if necessary.
 - Answer mode is set to 'Auto'.
 - Enter dC131 NVM Read/Write, NVM ID 200-019 FaxAnswerMode to change the setting. 0 = auto, 1 = manual.
 - Junk fax prevention (enabled/disabled).
 - Enter dC131 NVM Read/Write, NVM ID 200-033 FaxMachJunkEnabled to change the setting. 0 = disabled, 1 = enabled.
 - Dial type setting is correct (tone/pulse).
 - Enter dC131 NVM Read/Write, NVM ID 200-201 FaxLine1DialTypeDef to change the setting. 0 = tone, 1 = pulse.
 - Enter dC131 NVM Read/Write, NVM ID 200-202 FaxLine2DialTypeDef to change the setting, 0 = tone, 1 = pulse.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

The fax is connected to an analogue network.

Y N

Perform the 320H Fax Problems on Digital Networks RAP.

The Fax tab is available.

Υ

perform the 320F Fax Tab Not Available RAP.

The machine will send a fax to all machines.

1

The machine will send a fax to some machines.

1

Perform the 320B Unable To Send A Fax RAP.

Perform the 320C Unable To Send A Fax To Some Machines RAP.

The machine will receive a fax from the remote machine.

' N

Perform the 320D Unable To Receive A Fax RAP.

The fax prints out.

′ N

Perform the 320E Fax Will Not Print RAP.

The fault is cleared.

Υ

Perform the 320G Fax module Checkout RAP.

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors.

NOTE: If applicable, ensure that any sending or receiving feature adjustments that were made during this procedure are reset to the customer's preferences.

320B Unable To Send A Fax RAP

Use this RAP to isolate components which contribute to a fax send failure.

Procedure

NOTE: Refer to the 320A Fax Entry RAP. Complete all of the Initial Actions.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Verify with the customer that Public Switched Telephone Network/Private Automatic Branch Exchange (PSTN/PABX) line is operational. Connect a telephone handset into the line outlet. Listen for a dial tone. Use a known good telephone handset. **The dial tone is present.**

ΥI

Use the line test tool, PL 26.10 Item 3 to check the fax line. The green 'normal' indicator light is on.

ΥÑ

Ask the customer to request a line check by the telephone company.

Use a telephone handset to dial a known good number. The ring back is heard.

Y N

Ask the customer to request a line check by the telephone company.

Enable audio line monitor. Refer to How to Enable Audio Line Monitor.

Dial the fax number. Listen for dial tones or dialing and answer tones. Fax tones are present.

Y N

Enter dC131 NVM Read/Write. Reset the values at the NVM ID locations that follow:

- 200-415 Line1CurrentDetect = 0.
- 200-416 Line2CurrentDetect = 0.

Fax tones are present.

/ N

Perform the 320G Fax Module Checkout.

Install new components as necessary:

- Fax PWB, PL 20.05 Item 7.
- Telephone cable, PL 20.05 Item 3.

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors.

The dial tone/dialling answer tones are present.

Y

В

The exchange is receiving the digits too quickly or is not processing the digits correctly. Ask the customer if the exchange uses 'tone' or 'pulse' dialing. Perform the steps that follow:

• Ensure that the machine is set for the correct dialing tone.

- Enter dC131 NVM Read/Write. Reset the values at the NVM ID locations that follow. Set to 0 = tone or 1 = pulse:
 - 200-201 FaxLine1DialTypeDef.
 - 200-202 FaxLine2DialTypeDef.
- Insert a pause (,) between the first and second digit of the dial string. In the Fax tab Dialling Options select Dialling Characters / Pause / Add Character / Save.

The fax only dials once and hangs up, or the busy tone has unusual timing, frequency or level. **The busy tones are recognized.**

Y N

Check the number for a voice or tone answer.

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors. Re-enter the details from the Fax options.

Check that the customer is dialing the correct number. The number is correct.

Υ

Ask the customer to dial the number using the appropriate access codes.

Enable audio line monitor. Refer to How to Enable Audio Line Monitor.

Dial the fax number. Listen for a dial tone or dialing and answer tones. Fax tones are present.

N

Enter dC131 NVM Read/Write. Reset the values at the NVM ID locations that follow:

- 200-415 Line1CurrentDetect = 0.
- 200-416 Line2CurrentDetect = 0.

Fax tones are present.

Y N

Perform the 320G Fax Module Checkout.

Install new components as necessary:

- Fax PWB, PL 20.05 Item 7.
- Telephone cable, PL 20.05 Item 3.

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors.

The dial tone/dialling answer tones are present.

/ N

The exchange is receiving the digits too quickly or is not processing the digits correctly. Ask the customer if the exchange is 'tone' or 'pulse' dialing.

Perform the steps that follow:

- Ensure that the machine is set for the correct dialing tone.
- Enter dC131 NVM Read/Write. Reset the values at the NVM ID locations that follow.
 Set to 0 = tone or 1 = pulse.
 - 200-201 FaxLine1DialTypeDef.

C

- 200-202 FaxLine2DialTypeDef.
- Insert a pause (,) between the first and second digit of the dial string. In the Fax tab Dialling Options select Dialling Characters / Pause / Add Character / Save.
- Enter dC131 NVM Read/Write. Set NVM ID 200-397 TimeBeforeDial to 13.

The fax only dials once and hangs up, or the busy tone has unusual timing, frequency or level. **The busy tones are recognized.**

Y N

- Check the number for a voice or tone answer.
- Enter dC131 NVM Read/Write, Check that the values at the NVM ID locations that follow are set to the correct defaults to match the appropriate country setting.
 - 200-237 FaxBusy1MakeMin1.
 - 200-238 FaxBusy1MakeMax1.
 - 200-240 FaxBusy1BreakMin1.
 - 200-241 FaxBusy1BreakMax1.

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors.

How to Enable Audio Line Monitor

- 1. Enter Customer Administration Tools, GP 24.
- 2. Select Service Settings.
- 3. Select Embedded Fax Settings.
- 4. Select Transmission Defaults.
- Select Audio Line Monitor.
- Select Enable and High Volume.

320C Unable To Send A Fax To Some Machines RAP

Use this RAP to isolate components which contribute to a failure to send a fax to some machines.

Procedure

NOTE: Refer to the 320A Fax Entry RAP. Complete all of the Initial Actions.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Ensure the correct number is being dialled to make the connection. The connection is made.

Y N

The exchange is not processing the digits correctly. The machine needs a longer pause between digits:

- Insert a pause (,) between the first and second digit of the dial string. In the Fax tab
 Dialling Options select Dialling Characters / Pause / Add Character / Save.
- Enter dC131 NVM Read/Write. Change the setting at NVM ID 200-410 DTMF Tone-Time to 100.

Call the fax number from a known good telephone. Listen for the answer fax tones. **The** fax tones are heard.

Y N

The fax on the remote end is not picking up, or no fax is connected. Advise the customer to check the machine at the remote end.

Enter Customer Administration Tools, GP 24. Select Service Settings / Embedded Fax Settings / Print Fax Reports. Print a protocol report. The protocol report shows Receive Not Ready (RNR) is received from the remote fax repeatedly until timeout and Disconnect (DCN). Check for a communication failure after 'V34-PH2/V34-PH3' or 'DCS/TCF'. The remote fax receives and prints the fax.

' N

There is a compatibility problem with the remote fax. Check the items that follow:

- Check the protocol report for communication errors.
- The fax line quality is too poor for V34 (Super G3) to function correctly. This is possibly caused by mains interference on the line.
- Disable V34. Enter dC131 NVM Read/Write. Reset the values at the NVM ID locations that follow:
 - 200-087 T30MaxSpeedL1Tx = 11 (14400).
 - 200-088 T30MaxSpeed2Tx = 11 (14400).

If mains noise persists, install and use line 2 instead of line 1 (if available).

 When sending to a PC fax or fax server that has an ISDN card, there is a need to customize the CEQ values. Enter dC131 NVM Read/Write. Set the value at NVM ID 203-031 CEQTX to 0.

A

The protocol report shows Message Confirmation (MCF) is not sent by the remote fax (last page), only DCN. The failure report is printed, but the remote fax prints multiple copies of the job or failed page.

′

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Print a protocol report. Check for errors.

The machine will resend up to 5 times before printing the failure report.

Enter Customer Administration Tools, GP 24. Select Service Settings / Embedded Fax Settings / Transmission Defaults / Automatic Resend. Set the number of resends to 1 or 2.

320D Unable To Receive A Fax RAP

Use this RAP to isolate components which contribute to a fax receive failure.

Procedure

NOTE: Refer to the 320A Fax Entry RAP. Complete all of the Initial Actions.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Verify with the customer that Public Switched Telephone Network/Private Automatic Branch Exchange (PSTN/PABX) line is operational. Use a known good telephone handset or use the line test tool, PL 26.10 Item 3 to check the fax line. **The dial tone is present.**

' N

Ask the customer to request a line check by the telephone company.

Ensure the fax service is enabled and supported on that line by a PBX administrator.

Call the handset from another telephone. The phone rings.

/ N

Ask the customer to request a line check by the telephone company. Ensure the fax service is enabled and supported on that line by a PBX administrator.

Enable audio line monitor. Refer to How to Enable Audio Line Monitor. Dial the fax number. Listen for a dial tone or dialing and answer tones. **Fax tones are present.**

/ N

Perform the 320G Fax Module Checkout RAP. Install new components as necessary:

- Fax PWB, PL 20.05 Item 7.
- Telephone cable, PL 20.05 Item 3.

Reconnect the fax. Call the fax number from another telephone. Listen for fax tones. **The machine answers and fax tones are heard.**

. .

Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print an activity report. Check for receive calls on the activity report. The machine probably does not 'beep' to indicate an incoming call. Check that the NVM ID locations that follow are set to the defaults:

- 200-203 FaxAutoAnswerDelay.
- 200-423 FaxRing1MakeMin1.
- 200-426 FaxRing1BreakMin1.

Call the fax number from another telephone. Listen for fax tones. The machine answers and fax tones are heard.

Y N

Perform the 320G Fax Module Checkout. If necessary, install a new fax PWB, PL 20.05 Item 7.

A B

В

The fax is working correctly. Send a 3 page test fax to a known good fax machine. Print a protocol report. Check for errors.

Receive a 3 page test fax from the original fax machine. Enter Customer Administration Tools, GP 24. Select **Service Settings / Embedded Fax Settings / Print Fax Reports**. Print a protocol report. Check for errors. The protocol report may show a communication failure after 'Called Subscriber Identified/Digital Identification Signal' (CSI/DIS) or 'Digital Command Signal/ Training Check' (DCS/TCF) or after 'V34-PH2/V34-PH3' or 'Eye Quality Monitor' (EQM) value greater than 5000. **The protocol report shows a communication failure**.

Y N

The problem may be intermittent. Inform the operator of the remote machine that they should report the problem to the telephone company.

Perform the steps that follow:

- Confirm the fax line is a standard PSTN/PBX analogue line.
- The fax line quality is too poor for Super G3 or G3 to function correctly. There is possibly
 mains interference on the line. The DSL line may not be properly filtered.
- Ask the customer to request a fax capable service from telephone company.
- If mains noise is apparent, install a new fax PWB, PL 20.05 Item 7. Use line 1.
- Enter dC131 NVM Read/Write. Set the values at the NVM ID locations that follow:
 - 200-085 T30MaxResL1Rx = 7.
 - 200-086 T30MaxResL2Rx = 7.

This sets the receive resolution capabilities for line 1 and line 2 to 400 x 400 max. This will shorten the DIS.

- The DIS field is too long to enable successful communication.
 - Enter dC131 NVM Read/Write. Change NVM ID 200-141 USSTOCKSUPPORT... to 0 (disable).
- Disable V34 (Super G3). Enter dC131 NVM Read/Write and reset the values at the NVM ID locations that follow:
 - 200-089 T30MaxSpeedL1Rx = 11 (14400).
 - 200-090 T30MaxSpeedL2Rx = 11 (14400).

If the fault persists, use a lower line receive (Rx) speed: 12 = 12000, 13 = 9600, 14 = 7200, 15 = 4800, 16 = 2400.

Send a 3 page test fax from a known good fax machine.

How to Enable Audio Line Monitor

- Enter Customer Administration Tools, GP 24.
- Select Service Settings.
- Select Embedded Fax Settings.
- 4. Select Transmission Defaults.
- Select Audio Line Monitor.
- Select Enable and High Volume.

320E Fax Will Not Print RAP

Use this RAP to solve fax printing problems.

Initial Actions

- Check the condition of the paper in all trays.
- Check that the paper trays are loaded with the appropriate paper sizes for printing the fax.
 Refer to GP 20.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the received fax has mixed size documents (for example, the first prints are 8.5 x 11 and then followed by 8.5 x 14 prints), check the All Incomplete Jobs queue. The job will print 8.5 x 11 pages without printing 8.5 x 14 pages. Then the job will be deleted. Perform the steps that follow:
 - Enter Customer Administration Tools, GP 24. Select Service Settings / Embedded Fax Settings / Incoming Fax Defaults:
 - Select Paper Settings. Change to Manual.
 - Select Paper Sizes, Normal Size. Select the correct paper size to match the paper in the trays. This is usually A4 or 8.5 x 11 LEF and SEF. Select Save.
 - Change Paper Settings back to Automatic. Save, then exit.
- If the UI requests a paper size that is not loaded in the trays, perform the steps that follow:
 - Enter Customer Administration Tools, GP 24. Select Service Settings / Embedded Fax Settings / Incoming Fax Defaults:
 - Select Paper Sizes, Other Sizes.
 - For Small, Long or Large paper sizes, select None if the corresponding paper is not loaded in the paper trays. Select Save.
 - Change Paper Settings back to Automatic. Save, then exit.

320F Fax Tab Not Available RAP

Use this RAP to isolate the problem when the Fax tab is not available, or is greyed out.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fax setup. Enter Customer Administration Tools, GP 24. Perform the steps that follow:

- Select Service Settings / Embedded Fax Settings / Fax Setup. Check that the fax install was completed:
 - If Disabled is selected, select Enabled.
 - If the Run Setup option is displayed, select it. Follow the prompts on the UI screen to complete the install of the fax.
- Select Service Settings / Service Registration. Check that the fax service is registered to display on the UI screen:
 - Scroll down the list of services to Fax.
 - Check that the fax service is selected (indicated by a 'tick' symbol).
 - If necessary, select Fax.

Exit Customer Administration Tools, GP 24. Press the **All Services** button on the UI. **The Fax tab is displayed.**

Y N

Check that the fax module is installed correctly, PL 20.05 Item 1.

Perform the steps that follow:

- 1. Switch off the machine, GP 14.
- Check the connection between the fax module and the fax connector PWB, PL 20.05.

Check the fax connector PWB ribbon cable, PL 3.22 Item 10 connection between the SBC PWB, PL 3.22 Item 3 and the fax connector PWB, PL 20.05 Item 2.

3. Switch on the machine, GP 14.

The Fax tab is displayed.

/ N

Perform an AltBoot, GP 4.

NOTE: Software should only be loaded on a working machine. Loading or reloading software onto a machine (or fax module) that has a fault will not work.

Perform SCP 5 Final Actions.

Perform SCP 5 Final Actions.

320G Fax Module Checkout RAP

Use this RAP to check for problems with the fax module.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Switch off, then switch on the machine, GP 14.
- Check that the fax module, PL 20.05 Item 1 is located correctly.
- Check the ground connection on the fax module. Refer to the 301A Ground Distribution RAP
- For image quality defects, perform the IQ9 Unacceptable Received Fax Image Quality RAP.

Procedure

Switch off the machine GP 14. Disconnect the components that follow:

- The fax module from the fax connector PWB. PL 20.05.
- The fax connector PWB ribbon cable from the SBC PWB, PL 3.22.

Check that the connectors are clean and not damaged. If the connectors are damaged, install new components as necessary:

- Fax connector PWB, PL 20.05 Item 4.
- Fax PWB, PL 20.05 Item 7.
- Fax connector PWB ribbon cable. PL 3.22 Item 10.
- Perform the 303D SBC PWB Diagnostics RAP.

Reconnect the components that follow:

- The fax connector PWB ribbon cable to the SBC PWB.
- The fax module to the fax connector PWB.

Switch on the machine, GP 14. The fault is cleared.

′ N

Return to the original fault code RAP and perform the remaining actions in the procedure.

Perform SCP 5 Final Actions.

320H Fax Problems on Digital Networks RAP

Use this RAP to isolate fax problems when using digital networks.

The fax option was designed as an analogue Group 3 device. This will have the best performance when connected to a dedicated analogue phone Public Switched Telephone Network (PSTN) line or 'Plain Old Telephone System' (POTS).

- The fax option will function on the technologies that follow:
 - Asymmetric Digital Subscriber Line (ADSL).
 - Digital Subscriber Line (DSL).
 - Voice Over Internet Protocol (VOIP).
 - Fax Over Internet Protocol (FOIP), (T.38 protocol).
 - T1 Trunk/E1 Trunk (Europe).

NOTE: Due to the compression used on the technologies, the level of performance will be lower than on a PSTN or POTS.

• The fax option will not function on Integrated Services Digital Network (ISDN).

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Switch off, then switch on the machine, GP 14.
- Check with the customer or IT person on what network the fax service is being used and what is the quality of service.
- Check that an analogue adapter or a connection for analogue terminals is available.
- Ask the customer to check with the service provider that an analogue port for fax service has been provided and enabled.

Procedure

Perform the steps that follow:

- · Request the latest SPAR release.
- Disable V34.

Enter dC131 NVM Read/Write and reset the values at the NVM ID locations that follow:

- 200-087 T30MaxSpeedL1Tx = 11 (14400).
- 200-088 T30MaxSpeedL2Tx = 11 (14400).
- 200-089 T30MaxSpeedL1Rx = 11 (14400).
- 200-090 T30MaxSpeedL2Rx = 11 (14400).
- If problems are still not resolved after these actions, escalate the problem using the normal escalation process.

322-300-05 to 322-309-04 Other Network Faults 01 RAP

322-300-05 Image complete not received from video.

322-300-10 Failed to transfer image due to decoding error.

322-300-16 Machine determined that it needed to do a reset in order to avoid an impending real time clock overflow.

322-301-05 Scan resources not available.

322-309-04 Consecutive no accepts received from a module exceeded threshold value (currently 20). Five consecutive 322-309-04 will cause 322-319-04.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-310-04 to 322-318-04 Other Network Faults 02 RAP

322-310-04 Pages received from extended job service out of sequence.

322-311-04 Sequencer failed to respond with proposal within the required time.

322-314-04 Module registration error.

322-315-04 One or more modules failed to respond with a completion message.

322-316-04 Job required paper tray that does not exist.

322-317-04 Job required finishing capability that does not exist.

322-318-04 Job required an IOT capability that does not exist.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Delete the original job. Rerun the job.

322-319-04 IOT Integrity Problem While Printing a Job RAP

322-319-04 Integrity problem while printing a job. The IOT cycled down and up 10 times without printing a page within the same job causing the fault. The system automatically executes a reset.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Delete the original job. Rerun the job.

322-320-00 Failed to Install Scan to File RAP

322-320-00 System manager failed to install scan to file (workflow scanning).

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-321-00 Failed to Remove Scan to File RAP

322-321-00 System manager failed to remove scan to file (workflow scanning).

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

22-321-04 Proposal Response Timeout Error RAP

322-321-04 Proposal response timeout error - RS422 configuration mismatch.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Check the machine configuration.

322-322-00 Failed to Install LAN Fax RAP

322-322-00 System manager failed to install LAN (server) Fax.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-323-00 Failed to Remove LAN Fax RAP

322-323-00 System manager failed to remove LAN (server) Fax.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-324-00 Failed to Install Scan to E-mail RAP

322-324-00 System manager failed to install scan to e-mail.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-325-00 Failed to Remove Scan to E-mail RAP

322-325-00 System manager failed to remove scan to e-mail.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-326-00 Failed to Install Internet Fax RAP

322-326-00 System manager failed to install internet Fax.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-327-00 Failed to Remove Internet Fax RAP

322-327-00 System manager failed to remove internet fax.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-328-00 Incomplete System Information RAP

322-328-00 Incomplete system information. The accounting service data was corrupted.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-330-00 PagePack PIN Entry Locked RAP

322-330-00 An incorrect PagePack PIN was entered more than 3 times and entry is now locked for 24 hours. Only 1 retry is now possible every 24 hours.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Obtain a new PIN and retry.

322-330-01 to 322-330-05 List Jobs Request Timed Out RAP

322-330-01 List jobs request timed out between UI and single board controller.

322-330-02 List jobs request timed out between single board controller and ESS print service.

322-330-03 List jobs request timed out between single board controller and scan to file service.

322-330-04 List jobs request timed out between single board controller and scan to fax service.

322-330-05 List jobs request timed out between queue utility and DC job service.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-330-06 ESS Scan to Distribution Service not Responding to List Jobs RPC Call RAP

322-330-06 ESS scan to distribution service failed to respond to list RPC call.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-332-00 Invalid Plan Conversion RAP

322-332-00 Plan conversion entry locked due to repeated incorrect entry attempts.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- Obtain a new PIN.
- Go to dC137. Enter the new PIN.

322-335-00 Failed to Install Job Based Accounting RAP

322-335-00 System manager failed to install job based (network) accounting.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-336-00 Failed to Remove Job Based Accounting RAP

322-336-00 System manager failed to remove job based (network) accounting.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-337-00 Failed to Install Disk Overwrite RAP

322-337-00 System manager failed to install disk overwrite (image overwrite security).

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-338-00 Failed to Remove Disk Overwrite RAP

322-338-00 System manager failed to remove disk overwrite (image overwrite security).

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-339-00 Failed to Install Job Overwrite RAP

322-339-00 System manager failed to install job overwrite.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-340-00 Failed to Remove Job Overwrite RAP

322-340-00 System manager failed to remove job overwrite.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Reload the software, GP 4.
- 3. Install a new SBC PWB, PL 3.22 Item 3.

322-350-01, 322-350-02 Software Detects Non-Valid Xerox SOK RAP

322-350-01 Software detected non-valid Xerox SOK 1.

322-350-02 Software detected non-valid Xerox SOK 2 or 3.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the 303-405-00, 303-406-00 SIM Card Fault RAP.

322-351-01 to 322-351-03 SOK Write Failure RAP

322-351-01 SOK 1 write failure.

322-351-02 SOK 2 write failure.

322-351-03 SOK 3 write failure.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the 303-405-00, 303-406-00 SIM Card Fault RAP.

322-352-00 to 322-353-01 Serial Number Fault RAP

322-352-00 Serial number was lost.

322-352-01 Password routine is required to write serial number to the SOK 1, IOT and CCM.

322-353-00 IOT serial number is null or zero.

322-353-01 IOT serial number did not match system serial number. May be a legitimate case where machine was reserialized in re-manufacturing.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Switch off, then switch on the machine, GP 14.
- Confirm that the machine serial number displayed on the UI (select Machine Status, then
 Machine Information Screen) or the Configuration Sheet (if the UI is unavailable), and
 the serial number on the label on machine frame match.
- Check dC122 fault history for communications faults (chain 303). These can prevent serial number synchronization and must be addressed before proceeding.
- Take care if a new IOT PWB, scanner PWB or hard disk is to be installed. Refer to the Cautions contained in the repair procedures that follow:
 - REP 3.1 IOT PWB.
 - REP 3.2 Hard Disk Drive.
 - REP 60.4 Scanner PWB.

Procedure

1. Enter the correct serial number. Refer to dC132 Serial Number.

322-360-00 Service Plan Mismatch RAP

322-360-00 Three way sync of the service plan could not be resolved. The service plan information has been lost.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

Set the service plan, dC136.

322-370-00 Cannot Communicate to the XSA Database RAP

322-370-00 A loss of data communications on the single board controller.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off, then switch on the machine, GP 14.
- 2. Perform an AltBoot, GP 4.

322-371-00, 322-372-00 Fax Application Registration Error RAP

322-371-00 Set by the fax service when it gets no response from the service registry when trying to register.

322-372-00 Set by the fax service when it gets no response from the service registry when trying to un-register.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Check the fax connections.
- 3. Reload the software, GP 4.

322-407-00 Embedded Fax Install Failure RAP

322-407-00 The system manager failed to install the embedded fax option.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. Perform the 320G Fax Module Checkout.
- Go to dC301 NVM initialization. Select All Copier NVM and reset the NVM. Re-install the fax module, PL 20.05 Item 1.
- 4. Reload the software, GP 4.

322-417-00 Embedded Fax Remove Failure RAP

322-417-00 The system manager failed to remove the embedded fax option.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. To remove the option perform the steps that follow:
 - a. Enter Customer Administration Tools, GP 24.
 - b. Press the Machine Status button.
 - Select the **Tools** tab.
 - Select Service Settings.
 - e. Select Embedded Fax Settings.
 - Select Fax Setup.
 - Select **Disable**.

NOTE: An option must be disabled before it can be removed.

- Select Save.
- Select Exit Tools.
- If the embedded fax remove failure still occurs, go to dC301 NVM initialization and select All Copier NVM and reset the NVM.
- 4. If the fax module is to be removed from the machine. Switch off the machine, GP 14. Remove the fax module. PL 20.05 Item 1. Switch on the machine. GP 14.

A 'fax hardware not detected' window appears. Perform the steps that follow:

- a. Select Yes.
- Select Restart.

322-419-00 Embedded Fax Enable Failure RAP

322-419-00 The system manager failed to enable the embedded fax option.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- Perform the 320G Fax Module Checkout.
- 3. To enable the option, perform the steps that follow:
 - a. Enter Customer Administration Tools, GP 24.
 - b. Press the Machine Status button.
 - Select the Tools tab.
 - Select Service Settings.
 - e. Select Embedded Fax Settings.
 - Select Fax Setup.
 - Select Enable.
 - h. Select Save.
 - Select Exit Tools.
- Go to dC301 NVM initialization. Select All Copier NVM and reset the NVM.
- Reload the software, GP 4.

322-421-00 Embedded Fax Disable Failure RAP

322-421-00 The system manager failed to disable the embedded fax option.

Procedure

Perform the steps that follow:

- 1. Switch off, then switch on the machine, GP 14.
- 2. To disable the option perform the steps that follow:
 - a. Enter Customer Administration Tools, GP 24.
 - b. Press the Machine Status button.
 - Select the Tools tab.
 - Select Service Settings.
 - e. Select Embedded Fax Settings.
 - f. Select Fax Setup.
 - g. Select Disable.
 - h. Select Save.
 - Select Exit Tools.
- 3. Go to dC301 NVM initialization. Select Copier NVM and reset the NVM.
- 4. Reload the software, GP 4.

322-701-04 Module Completion Message Received RAP

322-701-04 Module completion message received after IOT returned to standby.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-720-00 Service Registry Bad Data/Corrupted RAP

322-720-00 Service registry had bad or corrupted data.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-721-00 No Response From The Service Registry RAP

322-721-00 AAA received no response from the service registry service.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

322-750-17 to 322-755-17 Configuration Mismatch RAP

322-750-17 The system detected that the accessory card configuration had changed during the power on sequence.

322-754-17 The system detected the UI configuration had changed during the power on sequence.

322-755-17 The system detects that the RDT configuration has changed during the power on sequence after the 2nd user confirmation of configuration mismatch.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

341-301 CRUMs Bus Communications Error RAP

341-301-00 The CRUMs bus communications have been disrupted by internal electronic noise.

Procedure

Perform the following:

- 1. ADJ 90.1 Xerographics Cleaning.
- 2. Check the print cartridge ground, go to the 301A Ground Distribution RAP.
- 3. Refer to the 391A HVPS RAP.
- 4. Install a new components as necessary:
 - HVPS tray assembly, PL 90.10 Item 1.
 - Bias transfer roll housing assembly, PL 80.15 Item 15.
 - Registration transfer assembly, PL 80.15 Item 1.

361-100-00 LED Print Head Data Integrity Failure RAP

361-100-00 Checksum read from LED print head did not match the checksum calculated on the SBC PWB.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Perform dC304 LED Print head Validation. The LED print head validation test failed.

Y

Perform SCP 5 Final Actions.

Switch off, then switch on the machine, GP 14. The fault persists.

N

Perform SCP 5 Final Actions.

Go to Flag 1. Disconnect, then check the ribbon cable and connectors, P/J511 on the LED print head module and P/J851 on the SBC PWB. The ribbon cable and connectors are clean and undamaged.

N

Clean or repair the ribbon cable and connectors. Install new components as necessary:

- LED print head to SBC PWB ribbon cable, PL 60.35 Item 17.
- LED print head module, PL 60.35 Item 1.

Re-install the ribbon cable. Perform dC304 LED Print Head Validation. **The LED print head validation test failed.**

f |

Perform SCP 5 Final Actions.

Install a new LED print head module, PL 60.35 Item 1. Check the operation of the machine. The fault persists.

N

Perform SCP 5 Final Actions.

Reload the software, GP 4. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

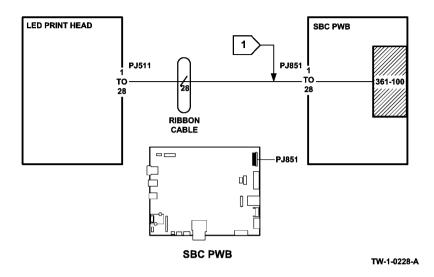


Figure 2 Circuit diagram

362-310-00 Scanner to SBC Communications Failure RAP

362-310-00 A communication failure occurred between the scanner PWB and the SBC PWB.

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Go to Flag 1. Disconnect, then check the SBC PWB/scanner PWB data cable and connectors, P/J411 on the Scanner PWB and P/J854 on the SBC PWB. **The data cable and connectors are clean and undamaged.**

Y N

Clean or repair the ribbon cable or connectors. Install new components as necessary:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB, PL 60.20 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform the steps that follow:

- Install a new SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Install a new scanner PWB, PL 60.20 Item 4.
- The 303D SBC PWB Diagnostics RAP.

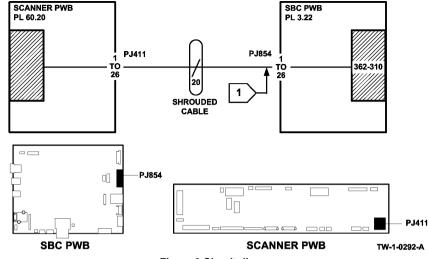


Figure 2 Circuit diagram

362-357-00, 362-960-00 Scanner Cooling Fan Fault RAP

362-357-00 A scanner cooling fan signal error was detected.

362-960-00 The cooling fan was not rotating.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Remove the scanner module top cover assembly, PL 60.15 Item 2. Hold the top cover interlock switch closed. Enter dC330 code 062-029 to run the cooling fan, MOT62-029, Figure 1. **The motor runs.**

Y N

Go to Flag 1. Check MOT62-029.

Refer to:

- GP 10 How to Check a Motor.
- P/J424, Scanner PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

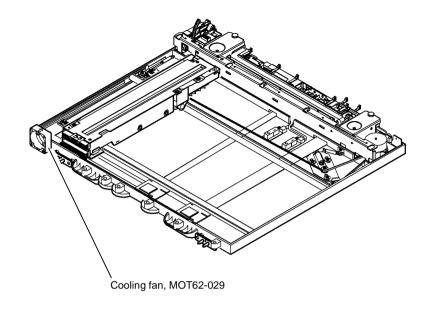
- Cooling fan, PL 60.15 Item 6.
- Scanner PWB, PL 60.20 Item 4.

Add the dC330 code 062-034 to check the cooling fan lock alarm. The display reads high.

Switch off, then switch on the machine. If the fault persists, install new components as necessary:

- Cooling fan, PL 60.15 Item 6.
- Scanner PWB. PL 60.20 Item 4.

Install a new cooling fan, PL 60.15 Item 6.



W-1-0912-A

Figure 1 Component location

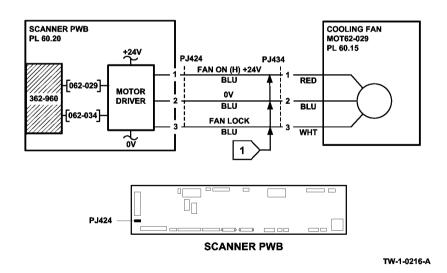


Figure 2 Circuit diagram

362-399-00 SPDH to Scanner Data Cable Failure RAP

362-399-00 A cable failure occurred between the SPDH and the scanner.

Initial Actions

Switch off, then switch on the machine. GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Go to Flag 1. Disconnect, then check the side 2 scan assembly data ribbon cable, and connectors P/J451 on the Side 2 CCD PWB and P/J413 on the Scanner PWB. **The ribbon cable and connectors are clean and undamaged.**

Y N

Clean or repair the ribbon cable or connectors. Install new components as necessary:

- Side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
- Scanner PWB, PL 60.20 Item 4.
- Side 2 scan assembly, PL 60.30 Item 1.

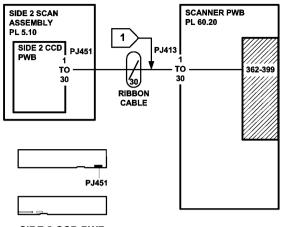
Re-install the ribbon cable. Check the operation of the machine. The fault persists.

/ N

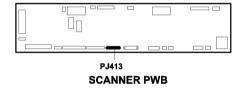
Perform SCP 5 Final Actions.

Install new components as necessary:

- Side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
- Scanner PWB, PL 60.20 Item 4.
- Side 2 scan assembly, PL 60.30 Item 1.



SIDE 2 CCD PWB



TW-1-0214-A

Figure 2 Circuit diagram

362-450-00 to 362-472-00, 362-781-00 Scanner Calibration Faults RAP

362-450-00 Dark range status bit was not clear prior to calibration.

362-451-00 Dark range status bit was not set after calibration.

362-452-00 Pixel offset status bit was not clear prior to calibration.

362-453-00 Pixel offset status bit was not set after calibration.

362-454-00 Gain range status bit was not clear prior to calibration.

362-455-00 Gain range status bit was not set after calibration.

362-456-00 Pixel gain status bit was not clear prior to calibration.

362-457-00 Pixel gain status bit was not set after calibration.

362-458-00 Highest intensity image pixel value exceeded maximum tolerance.

362-459-00 Pixel offset error (High) exceeded maximum adjustment allowed during dark calibration.

362-460-00 Pixel offset error (Low) exceeded maximum adjustment allowed during dark calibration.

362-461-00 Highest intensity image pixel value was lower than the minimum tolerance.

362-462-00 Pixel gain error (High) exceeded maximum adjustment allowed during white calibration.

362-463-00 Pixel gain error (Low) exceeded maximum adjustment allowed during white calibration.

362-464-00 The scanner was requested to perform another operation while busy.

362-466-00 Pixels were out of range during black calibration.

362-467-00 Pixels were out of range during white calibration.

362-468-00 Pixel clock error from the full width array.

362-469-00 Calibration ASIC comm's error.

362-470-00 Unable to read the registers in the calibration ASIC.

362-471-00 Calibration ASIC write buffer was full.

362-472-00 Calibration ASIC comm's time-out.

362-781-00 IIT Remote NVM out of range.

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Perform ADJ 60.3 IIT Registration, Magnification and Calibration. The fault persists.

Y

Perform SCP 5 Final Actions.

Go to Flag 1. Disconnect, then check the scan carriage data ribbon cable and connectors, P/ J445 on the Scanner CCD PWB and P/J412 on the Scanner PWB, Figure 2. **The ribbon cable and connectors are clean and undamaged.**

- 1

Clean or repair the scan carriage data ribbon cable or connectors. Install new components as necessary:

- Scan carriage data ribbon cable, PL 60.20 Item 17.
- Scan carriage assembly, PL 60.20 Item 1.
- Scanner PWB. PL 60.20 Item 4.

Reconnect the scan carriage data ribbon cable. Go to Flag 2. Disconnect, then check the SBC PWB/scanner PWB data cable and connectors, P/J411 on the Scanner PWB and P/J854 on the SBC PWB. The data cable and connectors are clean and undamaged.

N

Clean or repair the ribbon cable or connectors. Install new components as necessary:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB. PL 60.20 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform dC301 Scanner System NVM Initialization. Then perform ADJ 60.3 IIT Registration, Magnification and Calibration. If the fault persists, perform an AltBoot, GP 4.

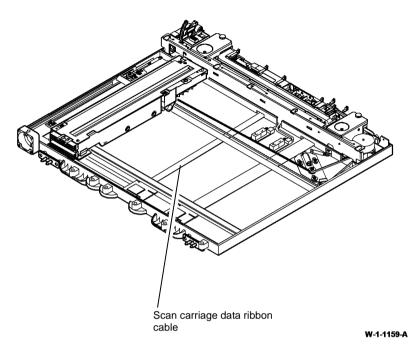
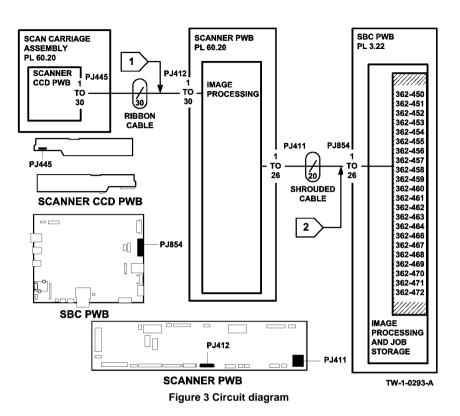


Figure 2 Component location



362-473-00 UART RX Wrap Error RAP

362-473-00 UART RX wrap error.

Initial Actions

· Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Go to Flag 1. Disconnect, then check the SBC PWB/scanner PWB data cable and connectors P/J411 on the Scanner PWB and P/J854 on the SBC PWB. **The data cable and connectors are clean and undamaged.**

Y N

Clean or repair the ribbon cable or connectors. Install new components as necessary:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB, PL 60.20 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform the steps that follow:

- Install a new SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Install a new scanner PWB, PL 60.20 Item 4.
- The 303D SBC PWB Diagnostics RAP.

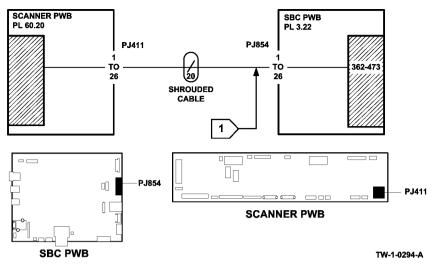


Figure 2 Circuit diagram

362-474-00, 362-475-00 Stepper Speed/Reset Error RAP

362-474-00 Stepper speed error.

362-475-00 Move before reset error.

Procedure

Perform the 362-473-00 UART RX Wrap Error RAP.

362-476-00 Scan Carriage Home Sensor RAP

362-476-00 Scan carriage home sensor was not cleared or actuated in time.

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Visually check the scanner carriage alignment through the document glass. **Carriage alignment is good.**

Y N

Perform REP 60.5 Scan Carriage Assembly.

Refer to Figure 1. Enter dC330 code 062-024, scan carriage move to document size position, then cancel the code. Enter dC330 code 062-031, scan carriage move to home position, then cancel the code. The scan carriage moves to the document size position then returns to the home position.

N

Check the condition and adjustment of the scan drive belt, refer to REP 60.11 Scan Carriage Drive Belt. **The scan carriage drive belt is good.**

Y N

Install a new scan carriage drive belt, PL 60.20 Item 8.

Check the scan carriage motor, MOT62-031.

Refer to:

- Flag 2 and Figure 1.
- GP 10, How to Check a Motor.
- P/J438, P/J421, Scanner PWB.
- 301H +24V Distribution RAP.
- 301L 0V Distribution RAP.

Install new components as necessary:

- Carriage motor assembly PL 60.20 Item 2.
- Scanner PWB, PL 60.20 Item 4.

Enter dC330 code 062-100, carriage home sensor, Q62-100. Add code 062-023, carriage home sensor test. The carriage will move into and out of the home position. **The display changes.**

Go to Flag 1. Check Q62-100.

Refer to:

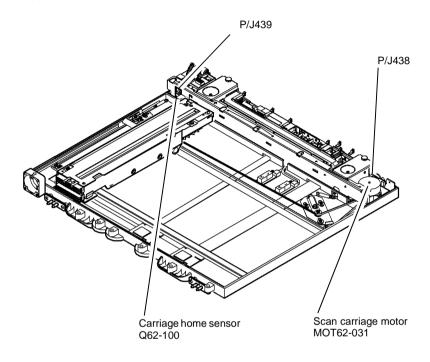
- GP 11, How to Check a Sensor.
- P/J439, P/J40, Scanner PWB.

- 301C +3.3V Distribution RAP.
- 301L 0V Distribution RAP.

Install new components as necessary:

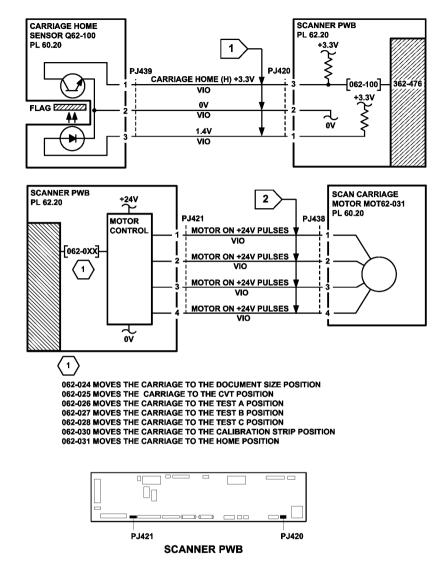
- Carriage home sensor, PL 60.20 Item 7.
- Scanner PWB, PL 60.20 Item 4.

Perform SCP 5 Final Actions.



W-1-0909-A

Figure 1 Component location



TW-1-0222-A

Figure 2 Circuit diagram

362-477-00 to 362-481-00, 362-782-00, 362-785-00, 362-786-00 Timing Errors RAP

362-477-00 Stepper busy error.

362-478-00 Real time error.

362-479-00 Page synchronization error.

362-480-00 Initialize time error.

362-481-00 SPDH client timeout.

362-782-00 IIT remote NVM read timeout.

362-785-00 Taurus 2 capability retry.

362-786-00 Taurus 2 capability timeout.

Procedure

Perform the 362-473-00 UART RX Wrap Error RAP.

362-484-00 Apps Code Not Present RAP

362-484-00 Apps code not present.

Procedure

Perform the 362-473-00 UART RX Wrap Error RAP.

362-485-00 +12V Supply Error RAP

362-485-00 +12V supply error.

Initial Actions

Switch off, then switch on the machine, GP 14.

Procedure

If the fault persists, perform the 301F +12V Distribution RAP. Check the +12V supply to the scanner PWB.

362-486-00 +24V Supply Error RAP

362-486-00 +24V supply error.

Initial Actions

• Switch off, then switch on the machine, GP 14.

Procedure

If the fault persists, perform the 301G +24V Distribution RAP. Check the +24V supply to the scanner PWB.

362-487-00 System Phase Lock Loop Error RAP

362-487-00 System phase lock loop error.

Procedure

Perform the 362-473-00 UART RX Wrap Error RAP.

362-490-00, 362-491, 366-490-00, 366-491 Side 1 and Side 2 Data Steerer Error RAP

362-490-00 A side 1 scanner data steerer error was found during the transfer of data between the scanner PWB and the SBC PWB.

362-491-00 A side 1 scanner data steerer Tx error was found during the transfer of data between the scanner PWB and the SBC PWB.

366-490-00 A side 2 scanner data steerer error was found during the transfer of data between the scanner PWB and the SBC PWB.

366-491-00 A side 2 scanner data steerer error Tx was found during the transfer of data between the scanner PWB and the SBC PWB.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14. Retry a print or copy job. The fault persists.

ı

The faults returns after less than 1000 copies/prints have been made.

ΥI

Perform SCP 5 Final actions.

Install a new scanner PWB, PL 60.20 Item 4.

Install a new scanner PWB, PL 60.20 Item 4.

362-777-00, **362-778-00** Motor Communications Failure RAP

362-777-00 A motor communication failure occurred.

362-778-00 A motor client failure occurred.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to Flag 1. Disconnect and check the harness and connectors, P/J460 on the SPDH PWB and P/J417 on the Scanner PWB. The harness and connectors are good.

N

Clean or repair the harness and connectors. Install new components as necessary:

- SPDH PWB, PL 5.10 Item 5.
- Scanner PWB, PL 60.20 Item 4.

Switch off, then switch on the machine, GP 14. The fault persists.

Y N

Perform SCP 5 Final actions.

Electrical noise due to poor connections in motor driver circuits can cause this failure. Check the connectors at the motor, in the harness and at the IOT PWB for the motors that follow:

- Registration motor, refer to the 381-152-00 Trail Edge Late from Registration Sensor RAP
- Duplex motor, refer to the 381-161-00 Lead Edge Late to Registration Sensor Duplex Mode RAP.
- Inverter motor, refer to the 383-155-00, 383-156-00 Duplex Sensor RAP.
- Offset motor centre tray configuration only, refer to the 310-702-00 Offset Motor Fault RAP.
- Horizontal transport motor finisher configuration only, refer to the 310-171-00 Trail Edge Late from Horizontal Transport Entry Sensor RAP.
- Tray 3 feed motor, refer to the 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP.
- Tray 4 feed motor, refer to the 381-146-00 Lead Edge Late to Tray 4 Feed Sensor RAP.
- Tray 3 elevate motor, refer to the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.
- Tray 4 elevate motor, refer to the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP.
- HCF transport motor, refer to the 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP.
- Tray 1 elevator/feed motor, refer to the 381-106-00 Lead Edge Late to TAR 1 Sensor from Tray 1 RAP.
- Tray 2 elevator/feed motor, refer to the 381-126-00 Lead Edge Late to TAR 2 Sensor from Tray 2 RAP.

- Fuser/exit motor, refer to the 310-153-00, 310-163-00 Lead Edge Late to Post Fuser Sensor RAP.
- Print cartridge motor, refer to the 392A Print Cartridge Motor Failure RAP.
- Toner cartridge motor, refer to the 393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP.

Install new components as necessary:

- SPDH PWB, PL 5.10 Item 5.
- Scanner PWB, PL 60.20 Item 4.
- SBC PWB, PL 3.22 Item 3.

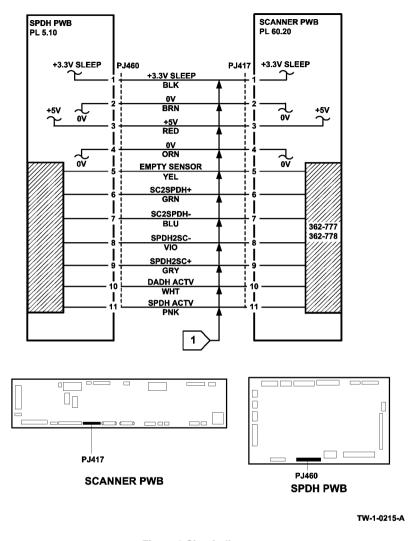


Figure 1 Circuit diagram

362-779-00, 362-780-00 Scanner Software Upgrade Error RAP

362-779-00 FPGA not loaded. FPGA had corrupted image or image was not loaded.

362-780-00 FPGA CRC error. FPGA had corrupted image or image was not loaded.

Procedure

Perform the 395-155-00 to 395-169-00 Scanner Software Upgrade Errors 1 RAP.

362-783-00, 366-783-00 SPDH Hotline Error RAP

362-783-00 SPDH side 1 hotline error.

366-783-00 SPDH side 2 hotline error.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to RAP GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Switch off, then switch on the machine, GP 14. The fault persists.

N

Perform SCP 5 Final Actions.

Reload the software, GP 4. The fault persists.

1

Perform SCP 5 Final Actions.

Go to Flag 1. Disconnect, then check the harness and connectors, P/J460 on the SPDH PWB and P/J417 on the Scanner PWB. The harness and connectors are good.

′ N

Repair the harness and connectors, REP 1.2. Install new components as necessary:

- SPDH PWB, PL 5.10 Item 5.
- Scanner PWB, PL 60.20 Item 6.

Re-install the harness. Check the operation of the machine. The fault persists.

'

Perform SCP 5 Final Actions.

Go to Flag 2. Disconnect, then check the SBC PWB/scanner PWB comms/power harness and connectors, P/J410 on the Scanner PWB and P/J860 on the SBC PWB. **The harness and connectors are good.**

′ N

Repair the harness and connectors, REP 1.2. If necessary, install a new scanner PWB, PL 60.20 Item 6. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Re-install the harness. Check the operation of the machine. The fault persists.

1

Perform SCP 5 Final Actions.

Check document size sensor 1 and document size sensor 2. Refer to the 305A Document Size Sensors Failure RAP. **The fault persists.**

/ N

Perform SCP 5 Final Actions.

Check the appropriate sensor:

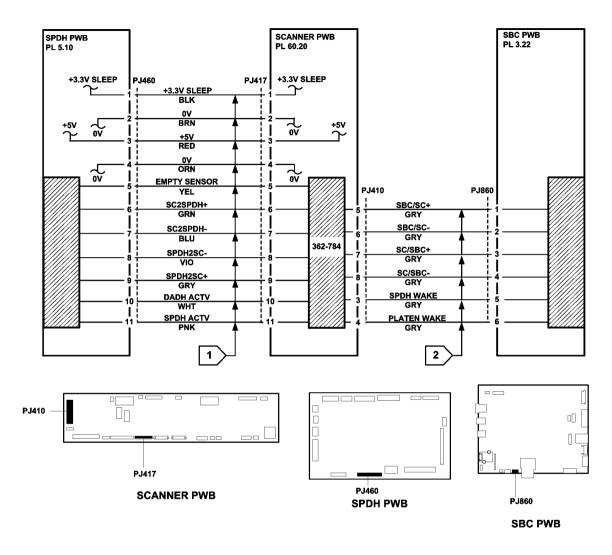
- For 362-783-00 faults, check the reg sensor. Perform the 305-340-00, 305-341-00 SPDH Reg Sensor Failure RAP.
- For 366-783-00 faults, check the side 2 reg sensor. Perform the 305-342-00, 305-343-00 SPDH Side 2 Reg Sensor Failure RAP.

The fault persists.

Υ

Perform SCP 5 Final Actions.

Perform the 303D SBC PWB Diagnostics RAP.



TW-1-0255-A

Figure 2 Circuit diagram

362-784-00 Platen Hotline Error RAP

362-784-00 Platen hotline error.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to RAP GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Switch off, then switch on the machine, GP 14. The fault persists.

N

Perform SCP 5 Final Actions.

Reload the software, GP 4. The fault persists.

/ I

Perform SCP 5 Final Actions.

Go to Flag 1. Disconnect, then check the SBC PWB/scanner PWB comms/power harness and connectors, P/J410 on the Scanner PWB and P/J860 on the SBC PWB. **The** harness and connectors are good.

N

Repair the harness and connectors, REP 1.2. If necessary, install a new scanner PWB, PL 60.20 Item 6. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Re-install the harness. Check the operation of the machine. The fault persists.

Y N

Perform SCP 5 Final Actions.

Check document size sensor 1 and document size sensor 2. Refer to the 362A Side 1 Scanning Document Size RAP. **The fault is fixed.**

' N

Check the carriage home sensor. Refer to the 362A Scan Carriage Position RAP. **The fault is fixed.**

Ν

Install a new scanner PWB, PL 60.20 Item 6. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform SCP 5 Final Actions.

Perform SCP 5 Final Actions.

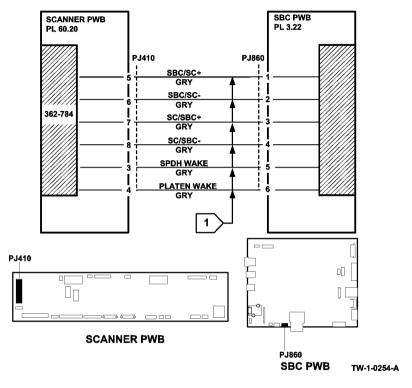


Figure 2 Circuit diagram

362A Side 1 Scanning Document Size RAP

The side 1 scanner encountered a document that was larger than expected.

The side 1 scanner encountered a document of unknown size.

The side 1 document size sensors incorrectly determined the size of the document.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check that the input module angle sensor actuator is not damaged. If necessary install a new input module angle sensor actuator, PL 60.20 Item 12.

Enter dC330 code 062-301, SPDH angle sensor Q62-301. Actuate Q62-301, Figure 1. The display changes.

Ν

Go to Flag 1. Check Q62-301.

Refer to:

- GP 11. How to Check a Sensor.
- P/J423. Scanner PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- SPDH angle sensor, PL 60.20 Item 7.
- Scanner PWB, PL 60.20 Item 4.

Enter dC330 code 062-019, SPDH platen down sensor, Q62-019. Actuate Q62-019. The display changes.

Ν

Go to Flag 2. Check Q62-019.

Refer to:

- GP 11, How to Check a Sensor.
- P/J423. Scanner PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- SPDH platen down sensor, PL 60.20 Item 7.
- Scanner PWB, PL 60.20 Item 4.

Raise the SPDH. Enter dC330 code 062-251, document size sensor 1, Q62-251. Actuate Q62-251 by placing a piece of paper on the document glass above the sensor. The display changes.

Go to Flag 3. Check Q62-251.

Υ Ν

Refer to:

- GP 11. How to Check a Sensor.
- PL 60.20 Item 4, Scanner PWB.
- 301E +5V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Document size sensor 1. PL 60.20 Item 3.
- Scanner PWB, PL 60.20 Item 4.

Enter dC330 code 062-253 document size sensor 2, Q62-253. Actuate Q62-253 by placing a piece of paper on the document glass above the sensor. The display changes.

Go to Flag 4. Check Q62-253.

Refer to:

- GP 11. How to Check a Sensor.
- PL 60.20 Item 4, Scanner PWB.
- 301E +5V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Document size sensor 2. PL 60.20 Item 3.
- Scanner PWB. PL 60.20 Item 4.

Go to Flag 5. Disconnect and check the SBC PWB to scanner PWB data cable, and the connectors P/J411 on the. Scanner PWB and P/J854 on the SBC PWB, The SBC PWB/Scanner PWB data cable and P/J connectors are clean and undamaged.

Clean or repair the SBC PWB/scanner PWB data cable or connectors, REP 1.2. Install new components as necessary:

- SBC PWB/scanner PWB data cable, PL 60.20 Item 22.
- Scanner PWB, PL 60.20 Item 4.

If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

If the fault persists, perform an AltBoot, GP 4.

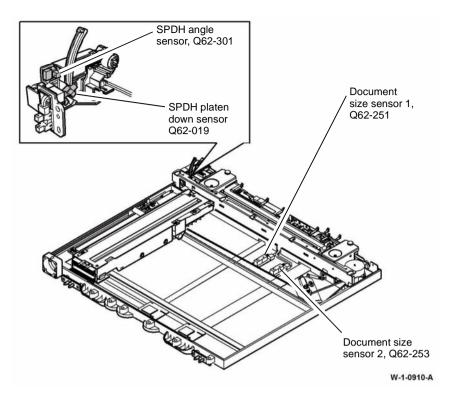


Figure 1 Component location

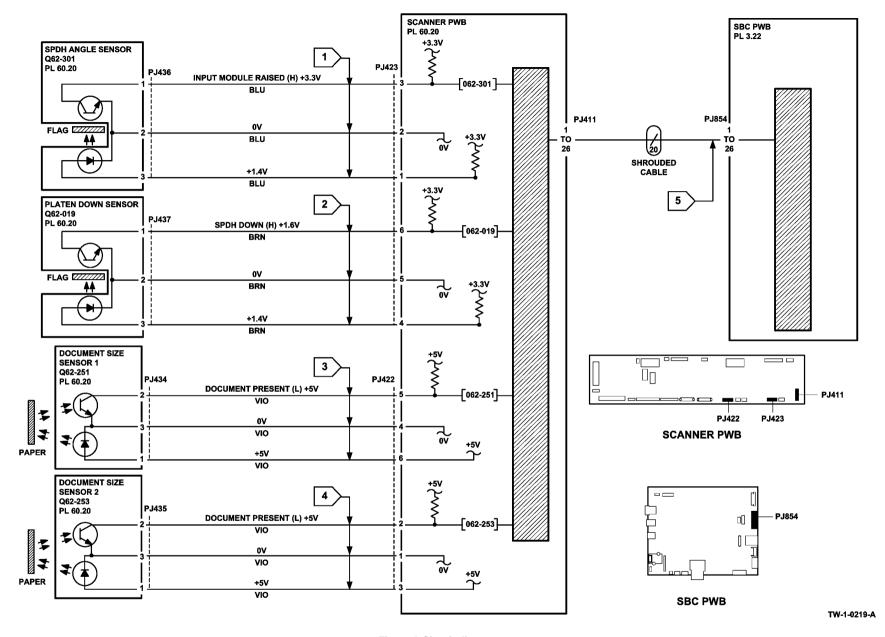


Figure 2 Circuit diagram

362B Side 1 LED Exposure Lamp Failure RAP

The side 1 LED exposure lamp failed to illuminate.

The side 1 LED exposure lamp failed to illuminate consistently throughout the scanning process.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Open the SPDH. Enter the dC330 code 062-002, platen exposure lamp, Figure 1. **The LED** lamp assembly in the scan carriage assembly illuminates.

Y

Go to Flag 4. +24V is available at P/J447 between pin 1 and pin 3, and between pin 2 and pin 4.

ΥN

Go to Flag 1. +24V is available at P/J410 between pins 19 and 20, between pins 21 and 22, and between pins 23 and 24.

/ N

+24V is available at P/J861 between pins 7 and 8, between pins 5 and 6, between pins 3 and 4, and between pins 1 and 2.

Y N

Check the power supply.

- Refer to:
- 301B 0V Distribution RAP.
- 301G +24V Distribution RAP.

Check the SBC PWB/scanner PWB comms/power harness, PL 60.20 Item 5. Also check the connectors P/J861 on the SBC PWB and P/J410 on the Scanner PWB. Repair as necessary, REP 1.2.

Go to Flag 1 and Flag 2. Check and clean if necessary, then reconnect P/J410, P/J416 and P/J446. **+24V** is now available at P/J447 between pin 1 and pin 3, and between pin 2 and pin 4.

Y N

Install new components as necessary:

- Scan carriage power ribbon cable, PL 60.20 Item 10.
- Scanner CCD PWB, PL 60.25 Item 4.
- Scanner PWB, PL 60.20 Item 4.

Go to Flag 4. +24V is available at P/J448 between pin 6 and pin 4, and between pin 5 and pin 3.

N

в с

Check the wiring and connectors between P/J447 and P/J448. Repair as necessary, REP 1.2.

- Go to Flag 5. Check the wiring and connectors between P/J449 and P/J450. **The wiring and connectors are good.**
- **1**

В

Repair the wiring or connectors as necessary, REP 1.2.

Go to Flag 3. Check that both ends of the scan carriage data ribbon cable are clean and securely connected. **The scan carriage data ribbon cable connections are good.**

N

Clean and reconnect or if necessary, install a new scan carriage data ribbon cable, PL 60.20 Item 17.

Install a new scan carriage assembly, PL 60.25 Item 1.

Go to Flag 4. +24V is available at P/J448 between pin 6 and pin 4, and between pin 5 and pin 3.

Y N

Check the wiring and connectors between P/J447 and P/J448. Repair as necessary, REP 1.2.

Go to Flag 5. Check the wiring and connectors between P/J449 and P/J450. **The wiring and connectors are good.**

Y N

Repair the wiring or connectors as necessary. Refer to REP 1.2.

Go to Flag 3. Check that both ends of the scan carriage data ribbon cable are clean and securely connected. The scan carriage data ribbon cable is good.

Y N

Clean and reconnect or if necessary, install a new scan carriage data ribbon cable, PL 60.20 Item 17.

Perform the steps that follow:

- 1. Install a new scan carriage assembly, PL 60.25 Item 1.
- 2. ADJ 60.3 IIT Registration, Magnification and Calibration.
- 3. SCP 5 Final Actions.

Go to dC612. Make a print of internal test pattern 2 (ITP 3 25% halftone (106dpi 45deg)). Make a copy of the test pattern print from the document glass. **The copy has uneven bands in the cross process direction.**

Y N

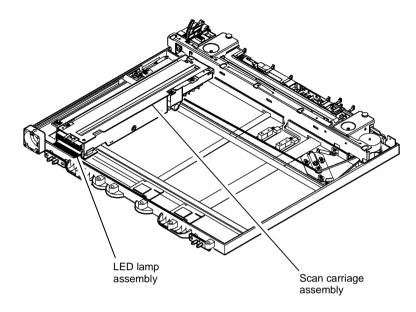
Perform SCP 5 Final Actions.

Go to Flag 3. Check that both ends of the scan carriage data ribbon cable are clean and securely connected. **The scan carriage data ribbon cable is good.**

′ N

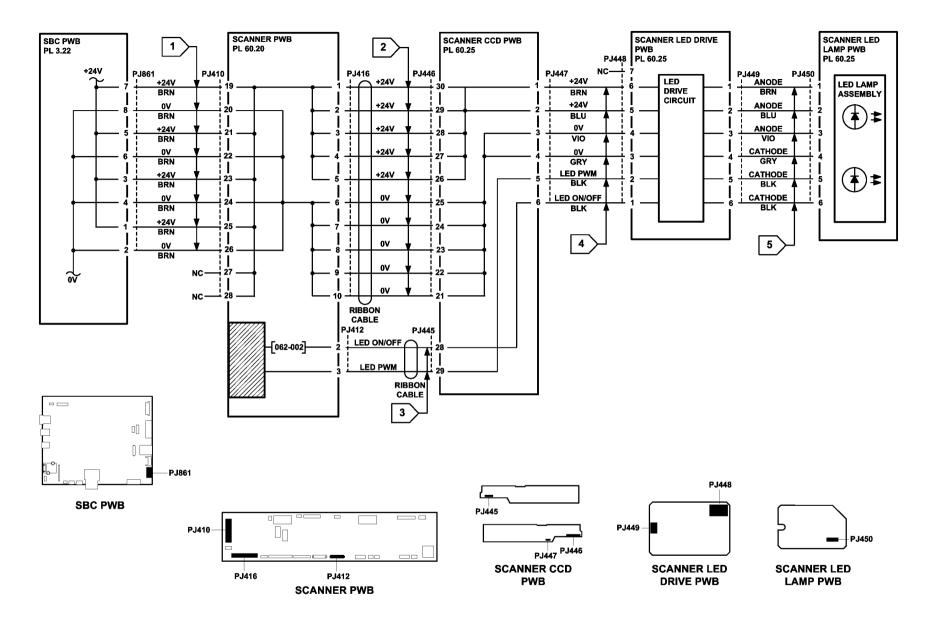
Clean and reconnect or if necessary, install a new scan carriage data ribbon cable, PL 60.20 Item 17.

Install a new scan carriage data ribbon cable, PL 60.20 Item 17.



W-1-0911-A

Figure 1 Component location



TW-1-0220-A

Figure 2 Circuit diagram

366-450-00 to 366-463-00, 366-466-00 to 366-468-00 SPDH Side 2 Scanner Calibration Faults RAP

366-450-00 Dark range status bit was not clear prior to calibration.

366-451-00 Dark range status bit was not set after calibration.

366-452-00 Pixel offset status bit was not clear prior to calibration.

366-453-00 Pixel offset status bit was not set after calibration.

366-454-00 Gain range status bit was not clear prior to calibration.

366-455-00 Gain range status bit was not set after calibration.

366-456-00 Pixel gain status bit was not clear prior to calibration.

366-457-00 Pixel gain status bit was not set after calibration.

366-458-00 Highest Intensity image pixel value exceeded maximum tolerance.

366-459-00 Pixel error exceeded maximum adjustment allowed during dark calibration.

366-460-00 Pixel error exceeded maximum adjustment allowed during dark calibration.

366-461-00 Highest Intensity image pixel value was lower than the minimum tolerance.

366-462-00 Pixel error exceeded maximum adjustment allowed during white calibration.

366-463-00 Pixel error exceeded maximum adjustment allowed during white calibration.

366-466-00 Pixels out range during black calibration.

366-467-00 Pixels out range during white calibration.

366-468-00 Pixel clock error from the full width array.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

Perform ADJ 60.3 IIT Registration, Magnification and Calibration. The fault persists.

′ N

Perform SCP 5 Final Actions.

Go to Flag 1. Disconnect, then check the side 2 scan assembly data ribbon cable, PL 5.10 Item 16, and connectors P/J451 on the Side 2 CCD PWB and P/J413 on the Scanner PWB. The side 2 scan assembly data ribbon cable and the connectors are clean and undamaged.

Y N

Clean or repair the side 2 scan assembly data ribbon cable or connectors. If necessary install new components:

- Side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
- Side 2 scan assembly, PL 5.10 Item 12.
- Scanner PWB, PL 60.20 Item 4.

Reconnect the P/J451 to P/J413 side 2 scan assembly data ribbon cable. Go to Flag 2. Disconnect then check the SBC PWB/scanner PWB data cable, PL 60.20 Item 22. Check the connectors P/J411 on the Scanner PWB and P/J854 on the SBC PWB. The SBC PWB/scanner PWB data cable and the P/J connectors are clean and undamaged.

′ N

Clean or repair the SBC PWB/scanner PWB data cable or connectors. If necessary, install a new scanner PWB, PL 60.20 Item 4. If the fault persists, perform the 303D SBC PWB Diagnostics RAP.

Perform dC301 scanner system NVM initialization, then ADJ 60.3 IIT Registration, Magnification and Calibration. If the fault persists, perform an AltBoot, GP 4.

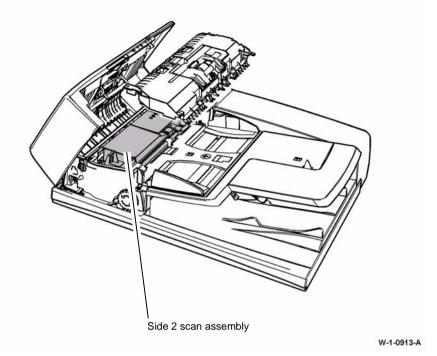


Figure 2 Component location

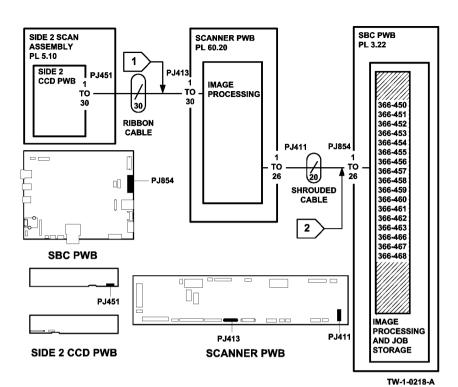


Figure 3 Circuit diagram

366-779-00, 366-780-00 SPDH Software Upgrade Error RAP

366-779-00 FPGA not loaded (side 2). FPGA had a corrupted image or was not loaded.

366-780-00 FPGA CRC error (side 2). FPGA had a corrupted image or was not loaded.

Procedure

Perform the 395-228-00, 395-229-00 SPDH Software Upgrade Errors RAP.

366A Side 2 LED Exposure Lamp Failure RAP

The side 2 LED exposure lamp failed to illuminate.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: When the LED lamp in the side 2 scan assembly is energized from dC330, it is normal for the LED lamp to have a strobing flash.

Refer to Figure 1. Open the SPDH, then the jam clearance guide. Enter the dC330 code 066-002, DH exposure lamp. The LED lamp assembly in the side 2 scan assembly illuminates.

′ N

Go to Flag 5. +24V is available at P/J453 between pin 1 and pin 3, and between pin 2 and pin 4.

Υ

Go to Flag 1. +24V is available at P/J410 between pins 19 and 20, between pins 21 and 22, between pins 23 and 24, and between pins 25 and 26.

1

+24V is available at P/J861 between pins 7 and 8, between pins 5 and 6, between pins 3 and 4, and between pins 1 and 2.

Y N

Check the power supply.

Refer to:

- 301B 0V Distribution RAP.
- 301G +24V Distribution RAP.

Check the SBC PWB/scanner PWB comms/power harness, PL 60.20 Item 5. Check P/J861 on the SBC PWB and P/J410 on the Scanner PWB. Repair as necessary, REP 1.2.

Go to Flag 1, Flag 2 and Flag 3. Disconnect, check and clean if necessary, then reconnect P/J410, P/J418, P/J459, P/J458 and P/J452. **+24V** is now available at P/J453 between pin 1 and pin 3, and between pin 2 and pin 4.

N

Install new components as necessary:

- Side 2 scan assembly power ribbon cable, PL 5.10 Item 6.
- Side 2 CCD PWB, PL 60.30 Item 4.
- SPDH PWB, PL 5.10 Item 5.
- Scanner PWB, PL 60.20 Item 4.

Go to Flag 6. +24V is available at P/J454 between pin 1 and pin 3, and between pin 2 and pin 4.

YI

Check the wiring and connectors between $\,$ P/J453 and $\,$ P/J454. Repair as necessary, REP 1.2.

A B C

В

Go to Flag 7 and Flag 8. Check the wiring and connectors between P/J454 and P/J455. **The wiring and connectors are good.**

· N

Repair the wiring or connectors as necessary. Refer to REP 1.2.

Go to Flag 4. Check that both ends of the side 2 scan assembly data ribbon cable are clean and securely connected. **The ribbon cable connections are good.**

/ I

Clean and reconnect the ribbon cable. If necessary, install a new side 2 scan assembly data ribbon cable, PL 5.10 Item 16.

Install a new side 2 scan assembly data ribbon cable, PL 5.10 Item 16.

Go to Flag 6. +24V is available at P/J454 between pin 1 and pin 3, and between pin 2 and pin 4.

ΥN

Check the wiring and connectors between P/J453 and P/J454. Repair as necessary, REP 1.2.

Go to Flag 7 and Flag 8. Check the wiring and connectors between P/J454 and P/J455. The wiring and connectors are good.

Y N

Repair the wiring or connectors as necessary. Refer to REP 1.2.

Go to Flag 4. Check that both ends of the side 2 scan assembly data ribbon cable are clean and securely connected. **The ribbon cable connections are good.**

' 1

Clean and reconnect the ribbon cable. If necessary, install a side 2 scan assembly data ribbon cable PL 5.10 Item 16.

Perform the steps that follow:

- 1. Install a new side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
- 2. ADJ 60.3 IIT Registration, Magnification and Calibration.
- 3. SCP 5 Final Actions.

Perform SCP 5 Final Actions.

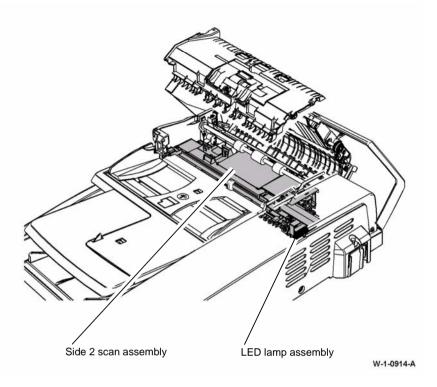


Figure 1 Component location

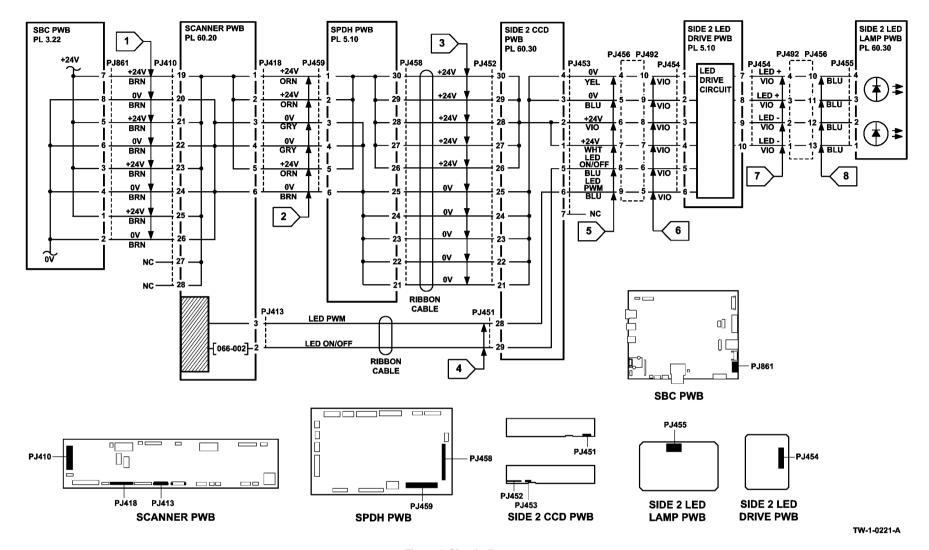


Figure 2 Circuit diagram

370A Tray Out of Service RAP

The IOT detected a fault in the tray and determines that the tray is out of service. The messages that follow will be displayed:

- 'Tray 1 out of service.'
- 'Tray 2 out of service.'
- 'Tray 3 out of service.'
- Tray 4 out of service.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Switch off, then switch on the machine, GP 14.
- Check that the tray elevator cables and mechanisms are located correctly.
- · Check that the tray is pushed fully home.
- Check for obstructions behind the tray.
- · Check the feed heads.

Procedure

Perform the steps that follow:

- 1. If tray 1 or tray 2 is out of service, check the components that follow. Install new components as necessary:
 - Tray assembly, PL 70.10 Item 15.
 - Tray 1 and 2 paper feed assembly, PL 80.26 Item 1.
- 2. If tray 3 is out of service, perform the 373B Tray 3 Out of Paper RAP.
- If tray 4 is out of service, perform the 374B Tray 4 Out of Paper RAP.

370B Tray 1 and Tray 2 Wrong Size Paper RAP

Use this RAP when the paper fed from the tray does not match the paper size indicated by the tray paper size switch.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Procedure

Perform the steps that follow:

- 1. Remove paper tray 1 or tray 2, REP 70.1.
- 2. Remove the paper size leaf springs, PL 70.10 Item 23.
- 3. Check the contact measurement of the paper size leaf springs, Figure 1.

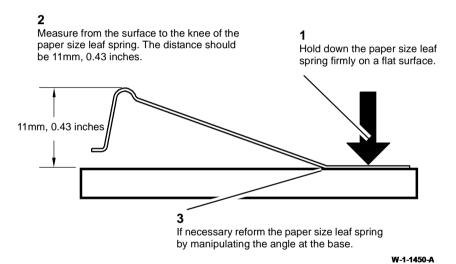


Figure 1 Contact measurement

- Install the paper size leaf springs.
- Install the paper tray.

If the fault persists, perform the appropriate RAP:

- 371-500-00 Tray 1 Open During Run RAP
- 372-500-00 Tray 2 Open During Run RAP

371-100-00, 371-217-00 Tray 1 Elevator Lift Failure RAP

371-100-00 Tray 1 stack height sensor failed to actuate within the correct time after the feed/ elevator motor turned on.

371-217-00 Tray 1 failed to elevate during printing as sheets were fed from the tray.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- · Check for obstructions behind the tray.
- Ensure that the tray is pushed fully home.
- Check the stack height mechanism actuator on the back of the tray, Figure 1.
- Check the drive gears and coupling on the tray, Figure 1.
- Check the elevator drive coupling on the feeder assembly.

Procedure

Enter dC330 code 071-330, tray 1 stack height sensor, Q71-330. Pull out tray 1, then push tray 1 fully home. **The display changes.**

/ N

Go to Flag 1. Check Q71-330.

Refer to:

- GP 11 How to Check a Sensor.
- P/J751, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 1 stack height sensor, PL 80.26 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.



To prevent damage to the elevator and paper feed mechanism, the paper tray must be pulled out before MOT07-010 is run in service mode.

Enter dC330 code 071-010, tray 1 elevator motor, MOT71-010. Pull out tray 1. **The motor runs.**

N

Go to Flag 2. Check MOT71-010.

Refer to:

- GP 10 How to Check a Motor.
- P/J752. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 1 elevator motor, PL 80.26 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the components that follow:

- Elevator motor drive gears. Figure 1.
- Tray 1 stack height mechanism on the feeder assembly.

If the fault persists, perform the 371A Tray 1 and Tray 2 Empty RAP.

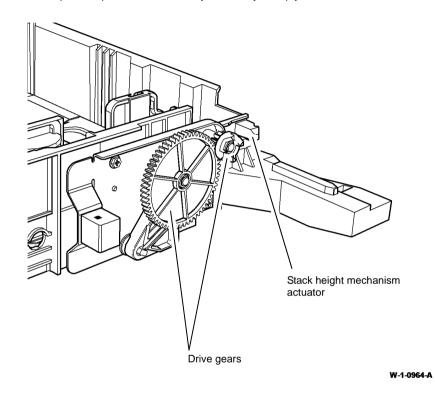
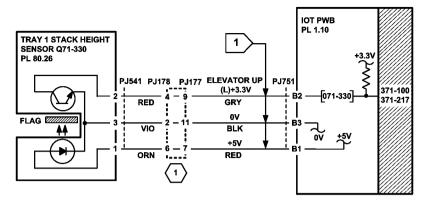
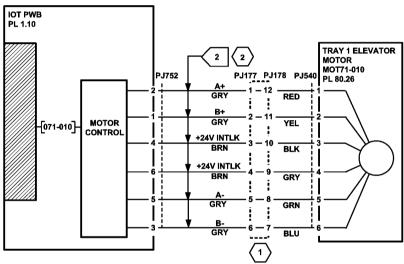
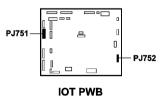


Figure 1 Component location





- 1 IN-LINE CONNECTOR
- DATA LINES A AND B PULSE BETWEEN 0V AND +24V WHEN THE MOTOR IS RUNNING.



TW-1-0231-A

Figure 2 Circuit diagram

371-500-00 Tray 1 Open During Run RAP

371-500-00 Tray 1 was opened during run when sheets were fed from the tray.

NOTE: Tray open is detected when none of the tray size switches are actuated. Also use this RAP when the paper fed from the tray does not match the paper size indicated by the tray paper guides.

NOTE: It is necessary to have at least one sheet of paper in the tray for the machine to recognise any changes made.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Ensure that the tray is pushed fully home.
- · Check for obstructions behind the tray.
- Check for contamination on the surface of the tray 1 paper size sensing PWB, PL 70.10 Item 18.
- Ensure that the tray paper guides are set up to the edges of the paper.
- Ensure that the guides are located in the slots in the base of the tray if a standard paper size is used.

Procedure

Open, then fully close tray 1. The UI detects that the tray has closed and is set to the correct paper size.

N

Remove tray 1 and tray 2, REP 70.1. Install tray 2 in the tray 1 position. Open, then fully close the tray. The UI detects that the tray has closed and is set to the correct paper size.

Y N

Go to Flag 1. Check the tray 1 paper size sensing PWB. Refer to:

- GP 13 How to Check a Switch.
- P/J751, IOT PWB.
- P/J537, tray 1 paper size sensing PWB.
- Table 1, tray 1 paper size sensing PWB switch logic.
- Figure 2, tray 1 paper size sensing PWB layout.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 1 paper size sensing PWB, PL 70.10 Item 18. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove tray 2 from the tray 1 position. Inspect tray 1. Refer to Figure 1.

Perform the steps that follow:

- Check that the paper size leaf springs are undamaged and mounted correctly, refer to 370B Tray 1 and Tray 2 Wrong Size Paper RAP.
- Check that the rack assembly and link arms are undamaged.

Install new components as necessary:

- Paper size leaf spring, PL 70.10 Item 23.
- Tray assembly, PL 70.10 Item 15.

The fault may be intermittent. Perform the steps that follow:

- · Repeat the procedure with the tray paper guides set to each standard paper size in use.
- Go to dC301 NVM Initialization. Perform the copier NVM initialization.
- Perform the OF7 IOT PWB Diagnostics RAP.

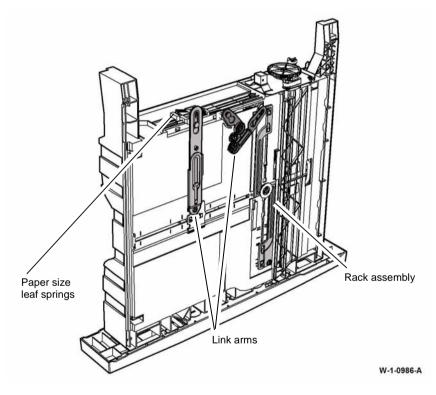


Figure 1 Component location

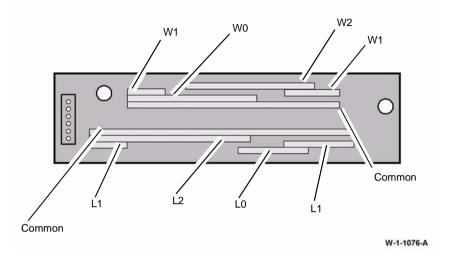
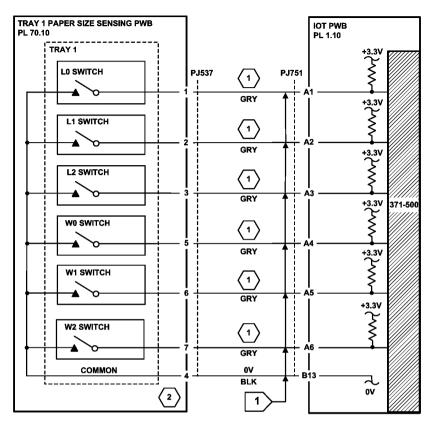


Figure 2 Tray 1 paper size sensing PWB layout

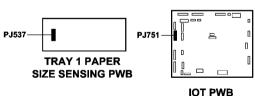
Table 1 Tray 1 paper size table

| Paper Size | L0 | L1 | L2 | W0 | W1 | W2 |
|-------------|------|------|------|------|------|------|
| Tray open | 3.3V | 3.3V | 3.3V | 3.3V | 3.3V | 3.3V |
| A3 SEF | 3.3V | 0V | 0V | 3.3V | 0V | 3.3V |
| A4 LEF | 3.3V | 0V | 3.3V | 3.3V | 0V | 3.3V |
| A4 SEF | 0V | 3.3V | 3.3V | 3.3V | 3.3V | 0V |
| A5 SEF | 3.3V | 0V | 3.3V | 0V | 3.3V | 0V |
| 11x17 SEF | 3.3V | 0V | 0V | 3.3V | 0V | 0V |
| 8.5x14 SEF | 3.3V | 3.3V | 0V | 3.3V | 3.3V | 0V |
| 8.5x13 SEF | 0V | 3.3V | 0V | 3.3V | 3.3V | 0V |
| 8.5x11 LEF | 3.3V | 0V | 3.3V | 3.3V | 0V | 0V |
| 8.5x11 SEF | 0V | 0V | 3.3V | 3.3V | 3.3V | 0V |
| 8.5x5.5 SEF | 3.3V | 0V | 3.3V | 0V | 3.3V | 0V |



SWITCH OPEN +3.3V.
CHECK THE VOLTAGE AT THE PJ ON THE PWB.
TRAY CLOSED DETECTED IF ONE OR MORE SWITCHES ARE CLOSED.

2 COGICAL REPRESENTATION
OF SIZE SENSING SWITCHING.
CIRCUITS ARE COMPLETED BY
CONTACT SPRINGS ON REAR
OF TRAY 1.



TW-1-0269-A

Figure 3 Circuit diagram

371A Tray 1 and Tray 2 Empty RAP

Use this RAP when an incorrect tray 1 or tray 2 out of paper message is displayed.

NOTE: Tray 1 and tray 2 feed mechanisms are identical.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Pull out the relevant tray. Enter dC330, then the relevant code:

- Code 071-320 for the tray 1 empty sensor, Q71-320.
- Code 072-320 for the tray 2 empty sensor, Q72-320.

Manually actuate the tray empty sensor, Figure 1. The display changes.

N

For tray 1, go to Flag 1. Check Q71-320. For tray 2, go to Flag 2. Check Q72-320. Refer to:

- GP 11 How to Check a Sensor.
- P/J751, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary.

- Tray 1 empty sensor, PL 80.26 Item 7.
- Tray 2 empty sensor, PL 80.26 Item 7.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Check that the sensor is free of paper dust.
- Check the paper feed assembly, PL 80.26 Item 1.

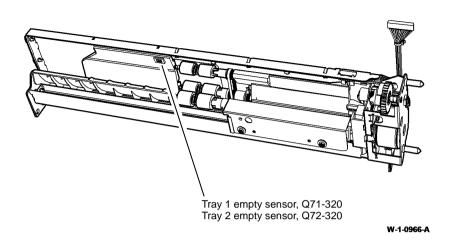


Figure 1 Component location

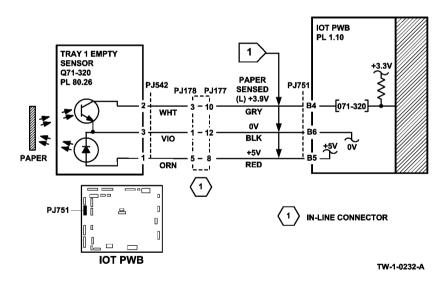


Figure 2 Tray 1 circuit diagram

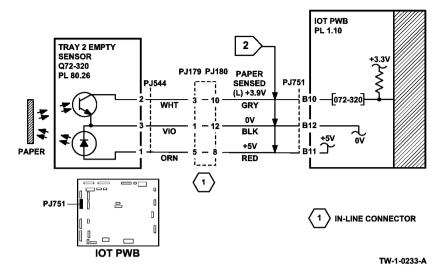


Figure 3 Tray 2 circuit diagram

372-100-00, 372-217-00 Tray 2 Elevator Lift Failure RAP

372-100-00 Tray 2 stack height sensor failed to actuate within the correct time after the feed/ elevator motor turned on.

372-217-00 Tray 2 failed to elevate during printing as sheets were fed from the tray.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check for obstructions behind the tray.
- Ensure that the tray is pushed fully home.
- Check the stack height mechanism actuator on the back of the tray, Figure 1.
- Check the drive gears and coupling on the tray, Figure 1.
- Check the elevator drive coupling on the feeder assembly.

Procedure

Enter dC330 code 072-330, tray 2 stack height sensor, Q72-330. Pull out tray 2, then push tray 2 fully home. **The display changes.**

N

Go to Flag 1. Check Q72-330.

Refer to:

- GP 11 How to Check a Sensor.
- P/J751, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 2 stack height sensor, PL 80.26 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.



To prevent damage to the elevator and paper feed mechanism, the paper tray must be pulled out before MOT72-010 is run in service mode.

Enter dC330 code 072-010, tray 2 elevate/feed motor, MOT72-010. Pull out tray 2. **The motor runs.**

N

Go to Flag 2. Check MOT72-010.

Refer to:

- GP 10 How to Check a Motor.
- P/J752. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP

If necessary, install a new tray 2 elevate/feed motor, PL 80.26 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Check the elevate/feed motor drive gears. Figure 1.
- Check the tray 2 stack height mechanism on the feeder assembly.

If the fault persists, perform the 371A Tray 1 and Tray 2 Empty RAP.

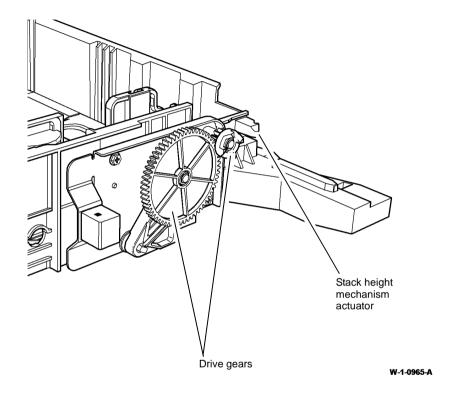
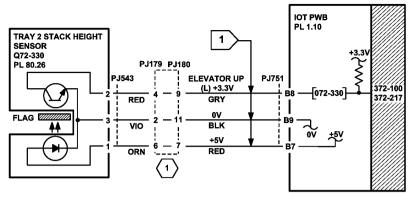
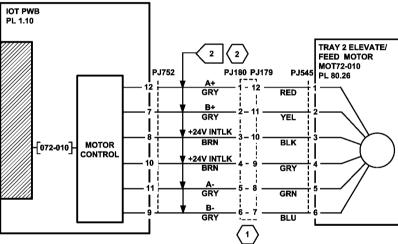
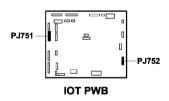


Figure 1 Component location





- 1 IN-LINE CONNECTOR
- DATA LINES A AND B PULSE BETWEEN OV AND +24V WHEN THE MOTOR IS RUNNING.



TW-1-0234-A

Figure 2 Circuit diagram

372-500-00 Tray 2 Open During Run RAP

372-500-00 Tray 2 was opened during run when sheets were fed from the tray.

NOTE: Tray open is detected when none of the tray size switches are activated. Also use this RAP when the paper fed from the tray does not match the paper size indicated by the tray paper guides.

NOTE: It is necessary to have at least one sheet of paper in the tray for the machine to recognise any changes made.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Ensure that the tray is pushed fully home.
- Check for obstructions behind the tray.
- Check for contamination on the surface of the tray 2 paper size sensing PWB, PL 70.10 Item 18.
- Ensure that the tray paper guides are set up to the edges of the paper.
- Ensure that the guides are located in the slots in the base of the tray if a standard paper size is used.
- If an envelope tray is installed as tray 2, ensure that it is configured on the UI:
 - Enter Customer Administrator Tools, GP 24. Press the Machine Status button.
 Select Tools / Device Settings / Paper Management / Tray 2 Usage.
 - Ensure Tray 2 Usage is set to Envelope Tray.

Procedure

Open, then fully close tray 2. The UI detects that the tray has closed and is set to the correct paper size.

′ N

Remove tray 1 and tray 2, REP 70.1. Install tray 1 in the tray 2 position. Open, then fully close the tray. The UI detects that the tray has closed and is set to the correct paper size.

Y

Go to Flag 1. Check the tray 2 paper size sensing PWB.

Refer to:

- GP 13 How to Check a Switch.
- P/J751, IOT PWB.
- P/J544, Tray 2 paper size sensing PWB.
- Table 1, tray 2 paper size sensing PWB switch logic.
- Figure 2, tray 2 paper size sensing PWB layout.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

A B

If necessary, install a new tray 2 paper size sensing PWB, PL 70.10 Item 18. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove tray 1 from the tray 2 position. Inspect tray 2. Refer to Figure 1. Perform the steps that follow:

- Check that the paper size leaf springs are undamaged and mounted correctly, refer to 370B Tray 1 and Tray 2 Wrong Size Paper RAP.
- Check that the rack assembly and link arms are undamaged.

Install new components as necessary:

- Paper size leaf spring, PL 70.10 Item 23.
- Tray assembly, PL 70.10 Item 15.

The fault may be intermittent. Perform the steps that follow:

- Repeat the procedure with the tray paper guides set to each standard size in use.
- Go to dC301 NVM Initialization. Perform the copier NVM initialization.
- Perform the OF7 IOT PWB Diagnostics RAP.

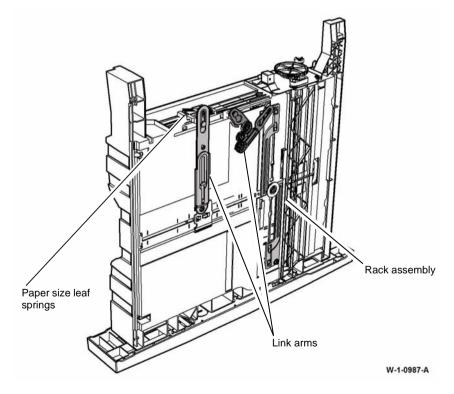


Figure 1 Component location

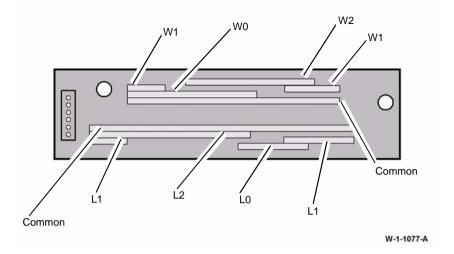
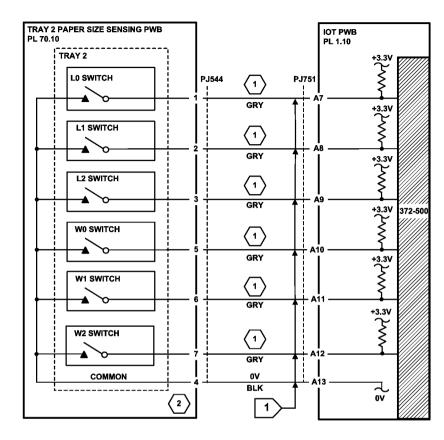


Figure 2 Tray 2 paper size sensing PWB layout

Table 1 Tray 2 paper size table

| Paper Size | L0 | L1 | L2 | W0 | W1 | W2 |
|-------------|------|------|------|------|------|------|
| Tray open | 3.3V | 3.3V | 3.3V | 3.3V | 3.3V | 3.3V |
| A3 SEF | 3.3V | 0V | 0V | 3.3V | 0V | 3.3V |
| A4 LEF | 3.3V | 0V | 3.3V | 3.3V | 0V | 3.3V |
| A4 SEF | 0V | 3.3V | 3.3V | 3.3V | 3.3V | 0V |
| A5 SEF | 3.3V | 0V | 3.3V | 0V | 3.3V | 0V |
| 11x17 SEF | 3.3V | 0V | 0V | 3.3V | 0V | 0V |
| 8.5x14 SEF | 3.3V | 3.3V | 0V | 3.3V | 3.3V | 0V |
| 8.5x13 SEF | 0V | 3.3V | 0V | 3.3V | 3.3V | 0V |
| 8.5x11 LEF | 3.3V | 0V | 3.3V | 3.3V | 0V | 0V |
| 8.5x11 SEF | 0V | 0V | 3.3V | 3.3V | 3.3V | 0V |
| 8.5x5.5 SEF | 3.3V | 0V | 3.3V | 0V | 3.3V | 0V |



SWITCH OPEN +3.3V. **CHECK THE VOLTAGE AT THE** PJ ON THE PWB. TRAY CLOSED DETECTED IF PJ751 ONE OR MORE SWITCHES ARE PJ544 CLOSED. **TRAY 2 PAPER** LOGICAL REPRESENTATION OF SIZE SENSING SWITCHING. **SIZE SENSING PWB CIRCUITS ARE COMPLETED BY IOT PWB** CONTACT SPRINGS ON REAR OF TRAY 2.

TW-1-0270-A

Figure 3 Circuit diagram

373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP

373-100-00 Tray 3 stack height sensor failed to actuate within the correct time after the elevator motor turned on.

373-217-00 Tray 3 failed to elevate during printing as sheets were fed from the tray.

NOTE: Rapid closure of tray 4 when tray 3 is being elevated may cause this fault.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check that the tray elevator cables and mechanisms are located correctly.
- Check for obstructions behind the tray.
- Ensure that the tray is pushed fully home.

Procedure

Enter dC330 code 073-300, tray 3 home sensor, Q73-300. Pull out tray 3, then push tray 3 fully home. **The display changes.**

N

Go to Flag 1. Check Q73-300.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 home sensor, PL 70.21 Item 4. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 073-330, tray 3 stack height sensor, Q73-330, Figure 1. Pull out tray 3. Manually actuate Q73-330. **The display changes.**

' N

Go to Flag 2. Check Q73-330.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 stack height sensor, PL 80.32 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

TAG 003 is installed.

Disconnect P/J756 on the IOT PWB. Connect a service meter between pin 1 and pin 2 on the wiring side of the connector. **Continuity is measured when the stack limit switch is deactuated and an open circuit is measured when the switch is actuated.**

Y N

Go to Flag 3. Check the tray 3 over elevate switch.

Refer to:

- GP 13 How to Check a Switch.
- P/J756, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 over elevate switch, PL 80.32 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.



To prevent damage to the elevator and paper feed mechanism, the paper tray must be pulled out before MOT07-030 is run in service mode.

Re-connect P/J756. Enter dC330 code 073-010, tray 3 elevator motor, MOT73-010. Pull out tray 3. **The motor runs.**

Y N

Go to Flag 4. Check MOT73-010.

Refer to:

- GP 10 How to Check a Motor.
- P/J756, IOT PWB.
- Figure 2.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP

Install new components as necessary:

- Tray 3 elevator motor, PL 70.21 Item 1.
- IOT PWB, PL 1.10 Item 2.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the components that follow:

- The elevator cables, PL 70.18 Item 3, PL 70.18 Item 4 and PL 70.18 Item 5.
- The elevator drives gear coupling, PL 70.18 Item 16.

If the fault persists, perform the 373B Tray 3 Out of Paper RAP.

If the fault persists, perform the 373B Tray 3 Out of Paper RAP.

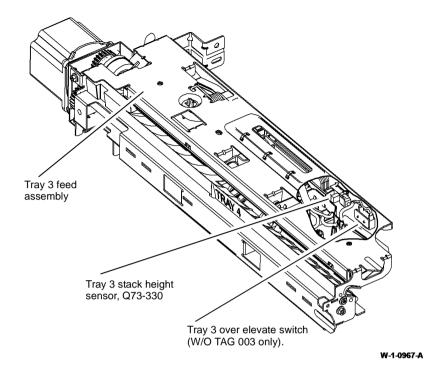


Figure 1 Component location

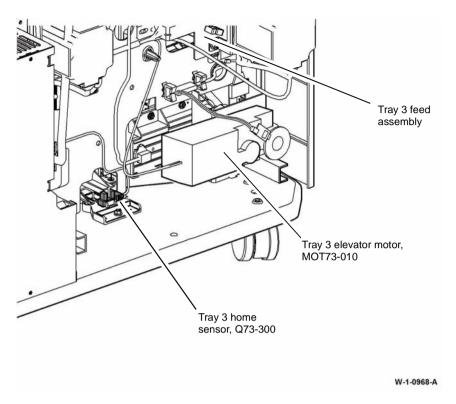
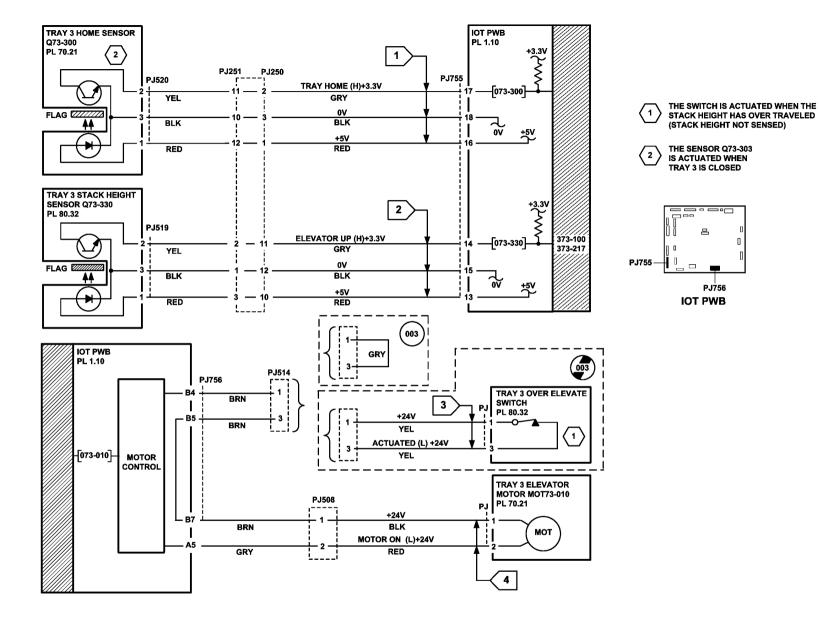


Figure 2 Component location



TW-1-0235-B

Figure 3 Circuit diagram

373-500-00 Tray 3 Open During Run RAP

373-500-00 Tray 3 was opened during run when sheets were fed from the tray.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check for obstructions behind the tray.
- Ensure that the tray is pushed fully home.
- Check the sensor flag, Figure 1.
- Ensure that the tray is installed correctly. Refer to REP 70.5 Tray 3 Removal.

Procedure

Enter dC330 code 073-300, tray 3 home sensor, Q73-300. Open, then fully close tray 3. **The display changes.**

Y N

Go to Flag 1. Check Q73-300.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 home sensor, PL 70.21 Item 4. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

The fault may be intermittent. Perform the steps that follow:

- Check the sensor holder, PL 70.21 Item 3.
- Install a new tray 3 home sensor, PL 70.21 Item 4.
- OF7 IOT PWB Diagnostics RAP.

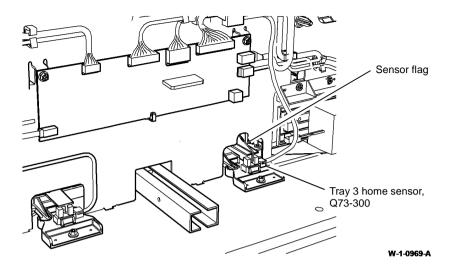


Figure 1 Component location

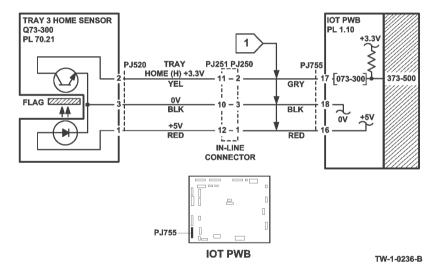


Figure 2 Circuit diagram

373A Tray 3 False Low Paper Level RAP

Use this RAP when the machine displays 'tray 3 is low on paper' when the tray is full. The 'tray is low on paper' message should appear when the tray is at 10% of its capacity.

The machine measures the time taken for the tray to elevate after being closed, to determine the amount of paper remaining in tray 3. This measurement only occurs if the tray has been open for a minimum of 30 seconds. If the tray is closed within 30 seconds the timeout of the last known paper level is used and no new timing is calculated.

NOTE: A low paper condition will be declared if the stack is below approximately 190 sheets.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Pull out tray 3 and allow it to move fully down. Close the tray. The tray moves up.

/ I

Perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Up Failure RAP.

Pull out tray 3. Load a ream of paper (500 sheets). Wait for 30 seconds before closing the tray. The message 'Tray is low on paper' has cleared.

/ N

Go to Flag 1. Check the tray 3 level encoder, Q73-340. Refer to:

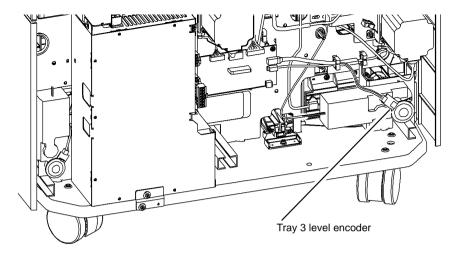
GP 11 How to Check a Sensor.

NOTE: In this check, use a piece of paper to actuate the sensor. The check is difficult due to the problem in moving the timing disc.

- Figure 1.
- P/J755. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 elevator motor, PL 70.21 Item 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

The low paper sensor appears to be working correctly. If the customer is only adding small amounts of paper at a time, then the message 'Tray is low on paper' will be displayed. If the tray is filled with 190 sheets or more, the message is cancelled.



W-1-0970-A

Figure 1 Component location

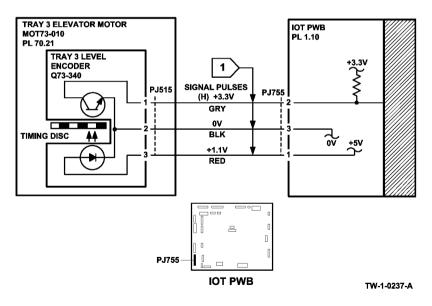


Figure 2 Circuit diagram

373B Tray 3 Out of Paper RAP

Use this RAP when an incorrect tray 3 out of paper message is displayed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to Figure 1. Enter dC330 code 073-320, tray 3 empty sensor, Q73-320. Use a piece of paper to actuate Q73-320. **The display changes.**

Go to Flag 1. Check Q73-320.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

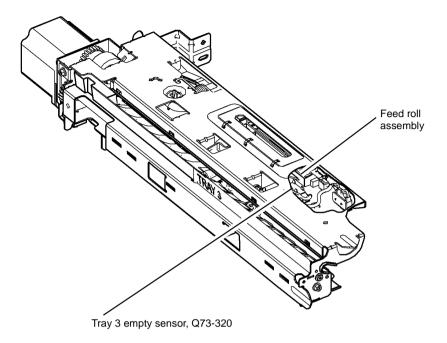
If necessary install a new tray 3 empty sensor, PL 80.32 Item 3. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the tray 3 front cover, refer to REP 70.5 Tray 3 Removal. Close tray 3. **The feed roll assembly drops when tray 3 is closed.**

N

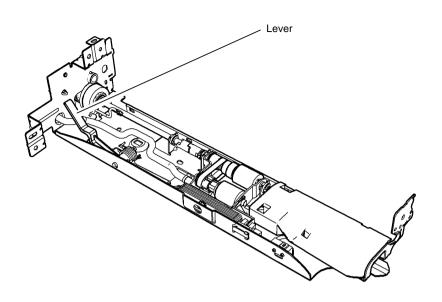
Remove the tray 3 paper feed assembly, REP 80.20. Ensure the lever is undamaged and operates correctly, Figure 2. If necessary, install a new tray 3 paper feed assembly, PL 80.32 Item 1.

The fault may be intermittent. Check the wiring and connectors between the IOT PWB and Q73-320. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.



W-1-0971-A

Figure 1 Component location



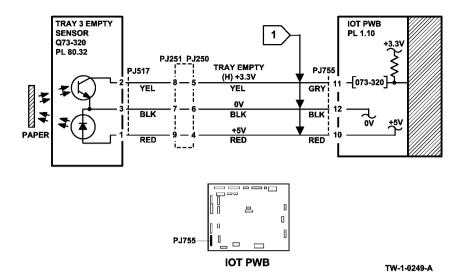


Figure 3 Circuit diagram

W-1-1299-A

Figure 2 Component location

374-100-00, 374-217-00 Tray 4 Elevator Lift Failure Entry **RAP**

374-100-00 Tray 4 stack height sensor failed to actuate within the correct time after the elevator motor turned on.

374-217-00 Tray 4 failed to elevate during printing as sheets were fed from the tray.

NOTE: Rapid closure of tray 3 when tray 4 is being elevated may cause this fault.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



CAUTION

Failure of the tray 4 feed motor, MOT81-040 can cause damage to the +24V circuit of the tray 4 control PWB. Before installing a new tray 4 control PWB, ensure that the tray 4 feed motor is operational.

Perform the appropriate RAP:

- 374-100A-00, 374-217A-00 Tray 4 Elevator Lift Failure RAP (W/O TAG 009)
- 374-100B-00, 374-217B-00 Tray 4 Elevator Lift Failure RAP (W/TAG 009)

374-100A-00, 374-217A-00 Tray 4 Elevator Lift Failure RAP (W/O TAG 009)

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Failure of the tray 4 feed motor, MOT81-040 can cause damage to the +24V circuit of the tray 4 control PWB. Before installing a new tray 4 control PWB, ensure that the tray 4 feed motor is operational.

NOTE: Rapid closure of tray 3 when tray 4 is being elevated may cause this fault.

Perform the steps that follow:

- Check the tray 4 feed motor, MOT81-040. Refer to the 381-136-00 Tray 4 Misfeed RAP.
- Check that the tray elevator cables and mechanisms are located correctly.
- Ensure that the tray is pushed fully home.
- Check for obstructions behind the trav.

Procedure

Enter dC330 code 074-300, tray 4 home sensor, Q74-300, Figure 1. Pull out tray 4, then push tray 4 fully home. The display changes.

Ν

Go to Flag 1. Check Q74-300.

Refer to:

- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J157, Tray 4 control PWB.
- P/J775. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 home sensor, PL 70.21 Item 4.
- Tray 4 control PWB, PL 70.21 Item 2.

Enter dC330 code 074-330, tray 4 stack height sensor, Q74-330, Figure 2. Pull out tray 4. Manually actuate Q74-330. The display changes.

Ν

Go to Flag 2. Check Q74-330.

Refer to:

- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.

- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 stack height sensor, PL 80.33 Item 7.
- Tray 4 control PWB, PL 70.21 Item 2.

TAG 004 is installed.

Y N

Disconnect P/J159 on the Tray 4 control PWB. Connect a service meter between pin 1 and pin 2 on the wiring side of the connector. Continuity is measured when the stack limit switch is deactuated and open circuit is measured when the switch is actuated.

Y N

Go to Flag 3. Check the tray 4 over elevate switch.

Refer to:

- GP 13 How to Check a Switch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J159, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 over elevate switch, PL 80.33 Item 8.
- Tray 4 control PWB, PL 70.21 Item 2.



To prevent damage to the elevator and paper feed mechanism, the appropriate paper tray must be pulled out before MOT74-010 or MOT73-010 is run in service mode.

Pull out tray 4. Enter dC330 code 074-010, tray 4 elevator motor, MOT74-010. **The motor runs.**

Y N

Pull out tray 3. Enter dC330 code 073-010, tray 3 elevator motor, MOT73-010. **The motor runs.**

Y N

Perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.

Perform the steps that follow:

- Remove the tray 4 elevator motor, Figure 1.
- Remove the tray 3 elevator motor, PL 70.21 Item 1.
- Install the tray 3 elevator motor in place of the tray 4 elevator motor, Figure 1.

Enter dC330 code 074-010, MOT74-010. The motor runs.

1

В

C D

Go to Flag 4. Check the wiring between the LVPS and tray 4 control PWB. Refer to:

GP 30 Tray 4 Control PWB Test Points.

- P/J158, Tray 4 control PWB.
- P/J656, LVPS.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y N

C

Repair the wiring, REP 1.2.

+24V is present at P/J158 pin 1.

Υ

If necessary, install a new tray 4 control PWB, PL 70.21 Item 2. If the fault persists, perform the $301L\ LVPS\ RAP$.

Go to Flag 5. Check the wiring between the IOT PWB and tray 4 control PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J775, IOT PWB.
- P/J155, Tray 4 control PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

ΥN

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 11.

Y N

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Install a new tray 4 elevator motor, PL 70.21 Item 1.

Check the components that follow:

- The elevator cables, PL 70.19 Item 3, PL 70.19 Item 4 and PL 70.19 Item 5.
- The elevator drives gear coupling, PL 70.19 Item 16.

If the fault persists, perform the 374B Tray 4 Out of Paper RAP.

If the fault persists, perform the 374B Tray 4 Out of Paper RAP.

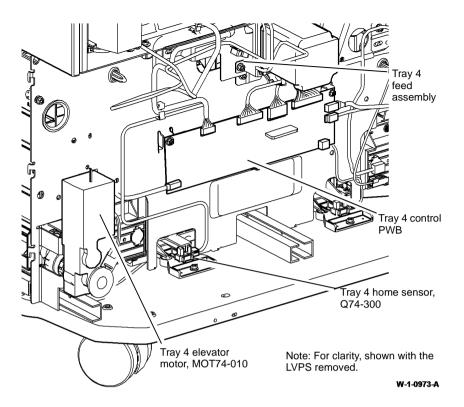


Figure 1 Component location

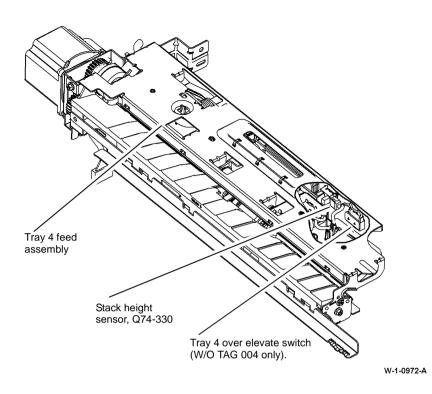


Figure 2 Component location

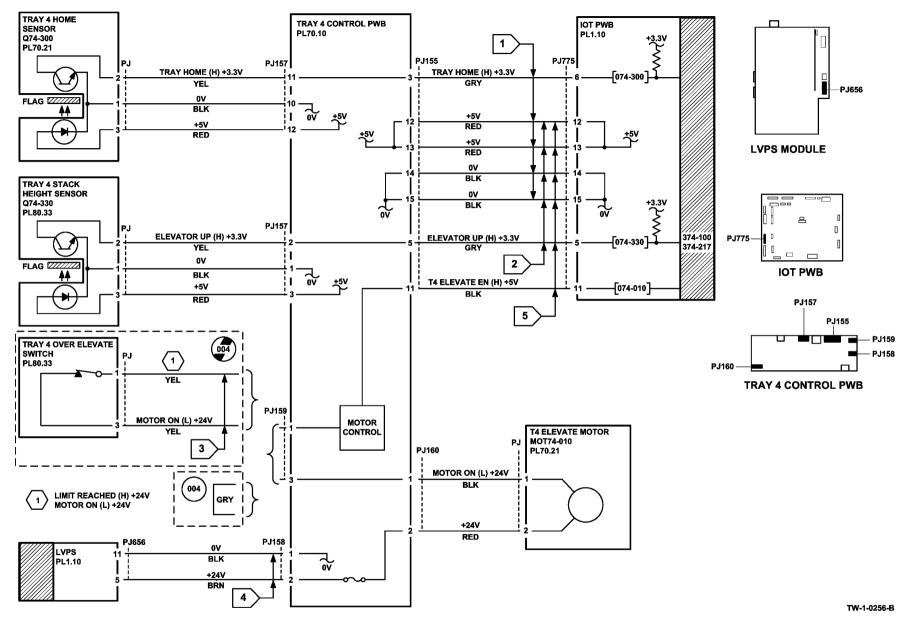


Figure 3 Circuit diagram

374-100B-00, 374-217B-00 Tray 4 Elevator Lift Failure RAP (W/TAG 009)

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Failure of the tray 4 feed motor, MOT81-040 can cause damage to the +24V circuit of the tray 4 control PWB. Before installing a new tray 4 control PWB, ensure that the tray 4 feed motor is operational.

NOTE: Rapid closure of tray 3 when tray 4 is being elevated may cause this fault.

Perform the steps that follow:

- Check the tray 4 feed motor, MOT81-040. Refer to the 381-136-00 Tray 4 Misfeed RAP.
- Check that the tray elevator cables and mechanisms are located correctly.
- Ensure that the tray is pushed fully home.
- Check for obstructions behind the tray.

Procedure

Enter dC330 code 074-300, tray 4 home sensor, Q74-300, Figure 1. Pull out tray 4, then push tray 4 fully home. **The display changes.**

Y N

Go to Flag 1. Check Q74-300.

Refer to:

- GP 11 How to Check a Sensor.
- P/J786, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 home sensor, PL 70.21 Item 4.
- Trav 4 control PWB, PL 70.21 Item 2.

Enter dC330 code 074-330, tray 4 stack height sensor, Q74-330, Figure 2. Pull out tray 4. Manually actuate Q74-330. **The display changes.**

N

Go to Flag 2. Check Q74-330.

Refer to:

- GP 11 How to Check a Sensor.
- P/J786. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 stack height sensor, PL 80.33 Item 7.
- Tray 4 control PWB, PL 70.21 Item 2.



To prevent damage to the elevator and paper feed mechanism, the appropriate paper tray must be pulled out before MOT74-010 or MOT73-010 is run in service mode.

Pull out tray 4. Enter dC330 code 074-010, tray 4 elevator motor, MOT74-010. **The motor runs.**

Y N

Pull out tray 3. Enter dC330 code 073-010, tray 3 elevator motor, MOT73-010. **The motor runs.**

. .

Perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.

Perform the steps that follow:

- Remove the tray 4 elevator motor, Figure 1.
- Remove the tray 3 elevator motor, PL 70.21 Item 1.
- Install the tray 3 elevator motor in place of the tray 4 elevator motor, Figure 1.

Enter dC330 code 074-010, MOT74-010. The motor runs.

N

Υ

Go to Flag 3. Check the wiring between the ray 4 elevator motor and the IOT PWB. Refer to:

- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

'N

Repair the wiring, REP 1.2.

+24V is present at P/J785 pin 4.

'N

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP

Install a new tray 4 elevator motor, PL 70.21 Item 1.

Check the components that follow:

- The elevator cables, PL 70.19 Item 3, PL 70.19 Item 4 and PL 70.19 Item 5.
- The elevator drives gear coupling, PL 70.19 Item 16.

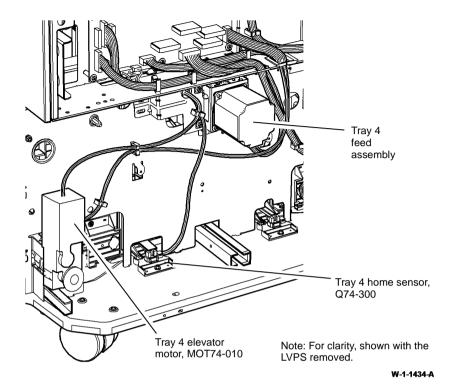
If the fault persists, perform the 374B Tray 4 Out of Paper RAP.

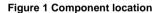
Check the components that follow:

- The elevator cables. PL 70.19 Item 3. PL 70.19 Item 4 and PL 70.19 Item 5.
- The elevator drives gear coupling, PL 70.19 Item 16.

If the fault persists, perform the 374B Tray 4 Out of Paper RAP.

Status Indicator RAPs 374-100B-00, 374-217B-00





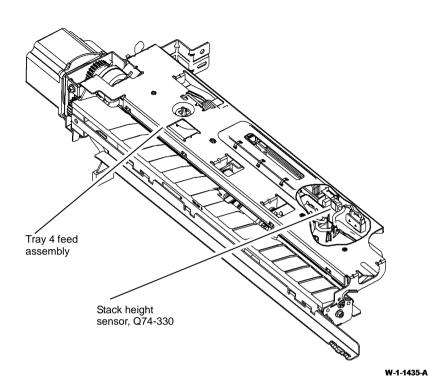


Figure 2 Component location

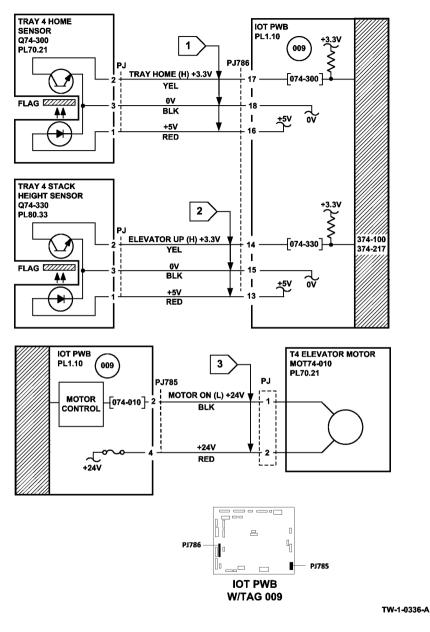


Figure 3 Circuit diagram

374-500-00 Tray 4 Open During Run Entry RAP

374-500-00 Tray 4 was opened during run when sheets were fed from the tray.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the appropriate RAP:

- 374-500A-00 Tray 4 Open During Run RAP (W/O TAG 009)
- 374-500B-00 Tray 4 Open During Run RAP (W/TAG 009)

374-500A-00 Tray 4 Open During Run RAP (W/O TAG 009) Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check for obstructions behind the tray.
- Ensure that the tray is pushed fully home.
- Check the sensor flag, Figure 1.
- Ensure that the tray is installed correctly. Refer to REP 70.14 Tray 4 Removal.

Procedure

Enter dC330 code 074-300, tray 4 home sensor, Q74-300. Open, then fully close tray 4. The display changes.

/ N

Go to Flag 1. Check Q74-300.

Refer to:

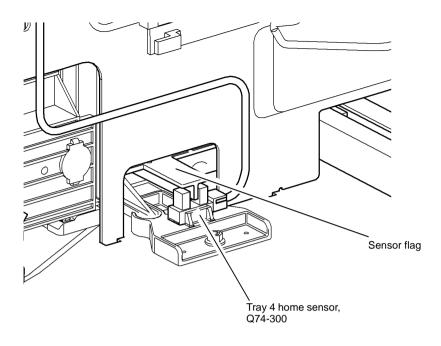
- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 home sensor, PL 70.21 Item 4.
- Tray 4 control PWB, PL 70.21 Item 2.

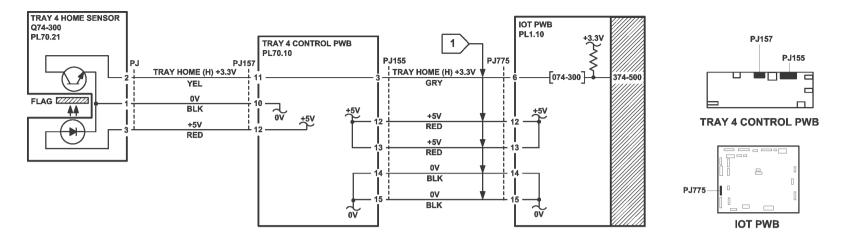
The fault may be intermittent. Perform the steps that follow:

- Check the sensor holder, PL 70.21 Item 3.
- Install a new tray 4 home sensor, PL 70.21 Item 4.
- Install a new tray 4 control PWB, PL 70.21 Item 2.
- OF7 IOT PWB Diagnostics RAP.



W-1-0974-A

Figure 1 Component location



TW-1-0258-B

Figure 2 Circuit diagram

374-500B-00 Tray 4 Open During Run RAP (W/TAG 009) Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check for obstructions behind the tray.
- · Ensure that the tray is pushed fully home.
- · Check the sensor flag, Figure 1.
- Ensure that the tray is installed correctly. Refer to REP 70.14 Tray 4 Removal.

Procedure

Enter dC330 code 074-300, tray 4 home sensor, Q74-300. Open, then fully close tray 4. The display changes.

Y N

Go to Flag 1. Check Q74-300.

Refer to:

- GP 11 How to Check a Sensor.
- P/J786. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 home sensor, PL 70.21 Item 4.

The fault may be intermittent. Perform the steps that follow:

- Check the sensor holder, PL 70.21 Item 3.
- Install a new tray 4 home sensor, PL 70.21 Item 4.
- OF7 IOT PWB Diagnostics RAP.

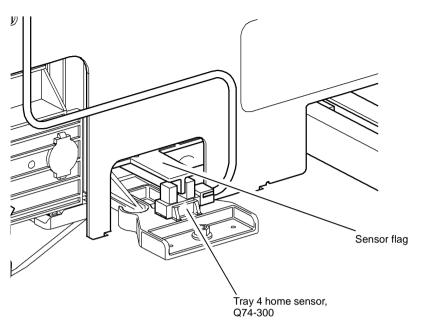


Figure 1 Component location

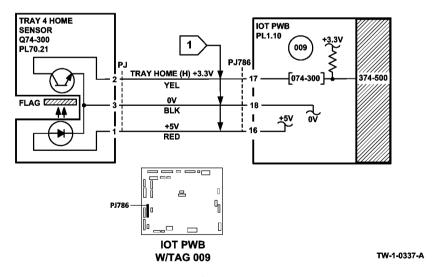


Figure 2 Circuit diagram

374A Tray 4 False Low Paper Level RAP

Use this RAP when the machine displays 'tray 4 is low on paper' when the tray is full. The 'tray is low on paper' message should appear when the tray is at 10% of its capacity.

The machine measures the time taken for the tray to elevate after being closed, to determine the amount of paper remaining in tray 4. This measurement only occurs if the tray has been open for a minimum of 30 seconds. If the tray is closed within 30 seconds the timeout of the last known paper level is used and no new timing is calculated.

NOTE: A low paper condition will be declared if the stack is below approximately 190 sheets.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Pull out tray 4 and allow it to move fully down. Close the tray. The tray moves up.

N

Perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Up Failure RAP.

Pull out tray 4. Load a ream of paper (500 sheets). Wait for 30 seconds before closing the tray. The message 'Tray is low on paper' has cleared.

N

For W/O TAG 010 and W/O TAG 009 machines only. Go to Flag 1. Check the tray 4 level encoder, Q74-340.

Refer to:

GP 11 How to Check a Sensor.

NOTE: In this check, use a piece of paper to actuate the sensor. The check is difficult due to the problem in moving the timing disc.

- GP 30 Tray 4 Control PWB Test Points.
- Figure 1.
- P/J156, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary.

- Tray 4 elevator motor, PL 70.21 Item 1.
- Tray 4 control PWB, PL 70.21 Item 2.

If necessary, perform the OF7 IOT PWB Diagnostics RAP.

The low paper sensor appears to be working correctly. If the customer is only adding small amounts of paper at a time, then the message 'Tray is low on paper' will be displayed. If the tray is filled with 190 sheets or more, the message is cancelled.

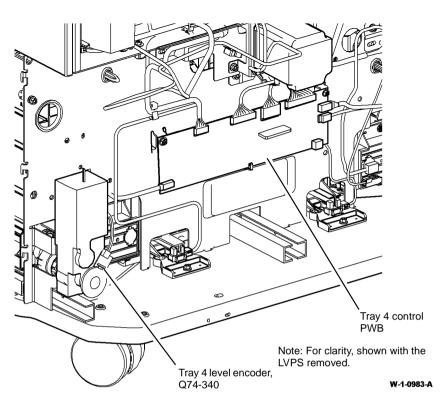
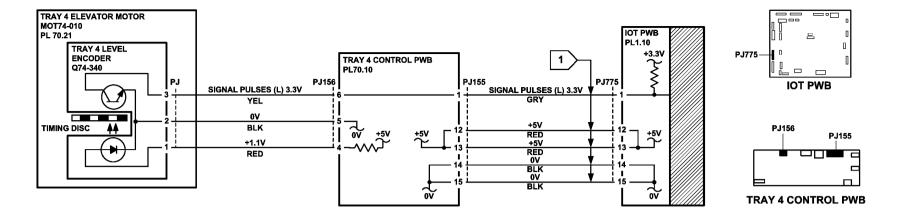


Figure 1 Component location



TW-1-0259-B

Figure 2 Circuit Diagram

374B Tray 4 Out of Paper RAP

Use this RAP when an incorrect tray 4 out of paper message is displayed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to Figure 1. Enter dC330 code 074-320, tray 4 empty sensor, Q74-320. Use a piece of paper to actuate Q74-320. **The display changes.**

(

For W/O TAG 009 machines. Go to Flag 1. Check Q74-320. Refer to:

- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J157, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Tray 4 empty sensor, PL 80.33 Item 6.
- Tray 4 Control PWB, PL 70.21 Item 2.

For W/ TAG 009 machines. Go to Flag 2. Check Q74-320. Refer to:

GP 11 How to Check a Sensor.

- P/J786, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

• Tray 4 empty sensor, PL 80.33 Item 6.

Remove the tray 4 front cover, refer to REP 70.14 Tray 4 Removal. Close tray 4. **The feed roll assembly drops when tray 4 is closed.**

/ N

Remove the tray 4 paper feed assembly, REP 80.21. Ensure the lever is undamaged and operates correctly, Figure 2. If necessary, install a new tray 4 paper feed assembly, PL 80.33 Item 1.

The fault may be intermittent. Check the wiring and connectors between the HCF control PWB and the sensor. If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

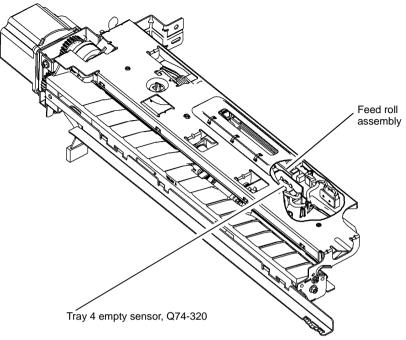


Figure 1 Component location

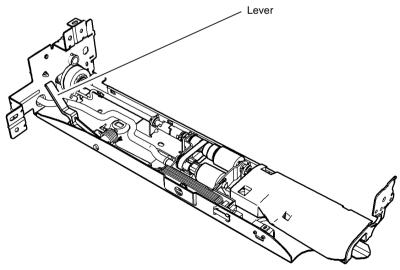
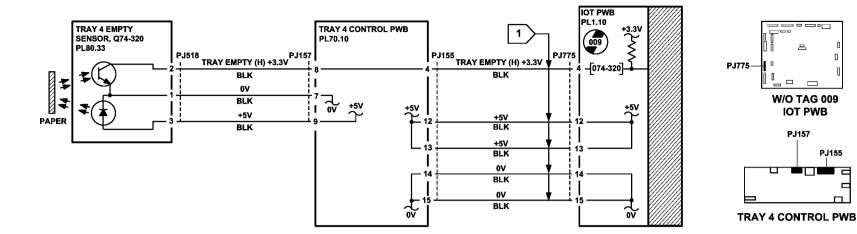
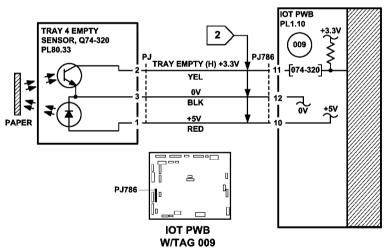


Figure 2 Component location



TW-1-0260-B

Figure 3 Circuit diagram W/OTAG 009



TW-1-0338-A

Figure 4 Circuit diagram W/TAG 009

375-100-00 Bypass Tray Lift Failure RAP

375-100-00 The bypass tray elevate sensor failed to actuate within the correct time.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check for obstructions or debris in the bypass tray.

Procedure

Enter dC330 code 075-040, bypass tray elevate sensor, Q75-040, Figure 1. Manually actuate the sensor. **The display changes.**

N

Go to Flag 1. Check Q75-040.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new bypass tray elevate sensor, PL 70.35 Item 20. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

With the left door closed, enter dC330 code 080-025, TAR/bypass tray motor, MOT80-006, PL 80.25 Item 5. The motor runs in reverse.

/ N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10, How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Go to Flag 3. Check the bypass tray clutch, Figure 1.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J757, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

The clutch is good.

′

If necessary, install a new bypass tray clutch, PL 70.35 Item 9. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the condition and operation of the components that follow. Refer to GP 7 Miscellaneous Checks:

- Bypass tray drive assembly, Figure 2.
- Tension spring, Figure 2.
- Bypass tray drive belt, PL 80.25 Item 10.
- Drive pulley, PL 80.25 Item 3.
- Bypass tray lift plate shaft, cam, cam follower and cam drive gear, Figure 1.

Install new components as necessary:

- Bypass tray assembly, PL 70.35 Item 1.
- Bypass tray drive belt, PL 80.25 Item 10.
- Drive pulley, PL 80.25 Item 3.

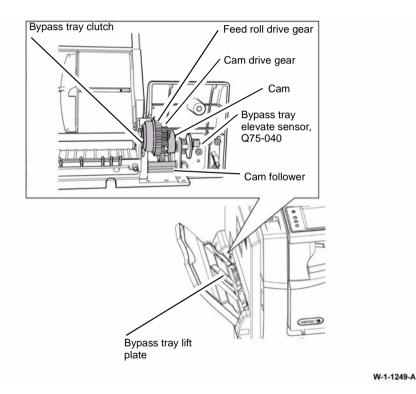
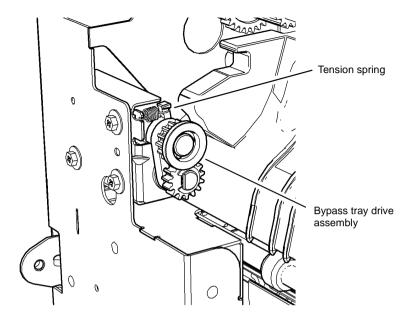
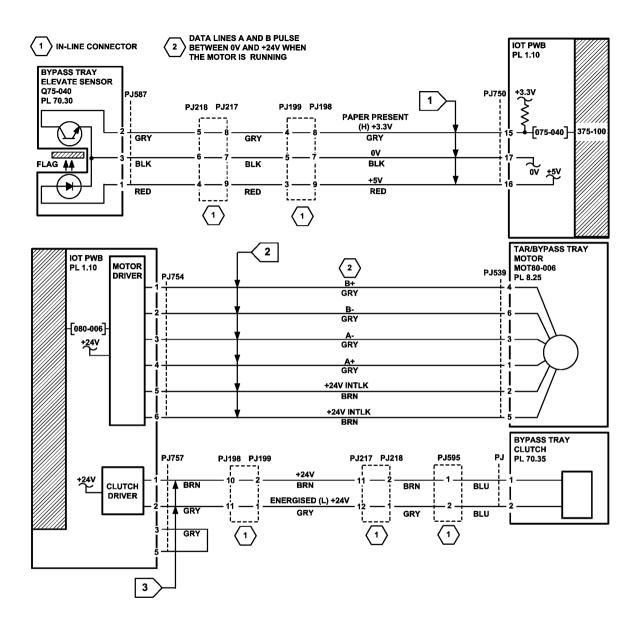


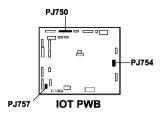
Figure 1 Component location



W-1-1250-A

Figure 2 Component location





TW-1-0306-A

Figure 3 Circuit diagram

375A Bypass Tray RAP

Use this RAP to identify and correct problems when using the bypass tray.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Check the condition of the media used in the bypass tray. Refer to IQ1 and GP 20.
- Ensure that the width guides are touching the edge of the paper, Figure 1.
- If there is a paper width sensing problem, check that the bypass tray width sensor, Q75-601, is not damaged, Figure 1.
- Clean the bypass tray with a microfiber wiper, PL 26.10 Item 13 and antistatic fluid, PL 26.10 Item 19.
- Check the fault history file. If 375-100-00 codes are present, perform the 375-100-00 Bypass Tray Lift Failure RAP.

Procedure

Enter dC330 code 075-320, bypass tray empty sensor, Q75-320. Manually actuate the sensor. **The display changes.**

/ N

Go to Flag 2. Check Q75-320.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new bypass tray empty sensor, PL 70.35 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC140 code 075-601, bypass tray width sensor, Q75-601. Move the bypass tray width guides between wide and narrow settings.

NOTE: The width sensor is a potentiometer. The wiper of the potentiometer is attached to the bypass tray side guides. This gives a variable voltage to indicate the paper width setting.

The display changes.

N

Go to Flag 1. Check Q75-601.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750. IOT PWB.
- 301D +3.3V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new bypass tray assembly, PL 70.35 Item 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Ensure that the customer is not filling the tray above the max fill line.
- For feeding problems from the bypass tray, perform the 381-155-00 Lead Edge Late to Registration Sensor from Bypass Tray RAP.

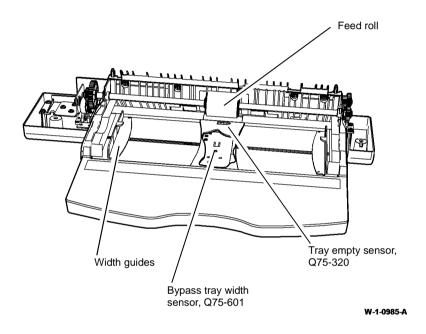
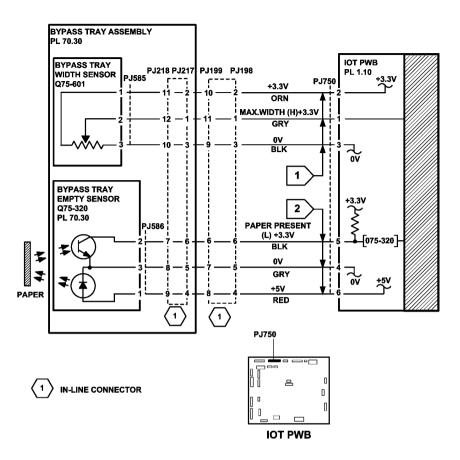


Figure 1 Component location



TW-1-0248-A

Figure 2 Circuit diagram

381-106-00 Lead Edge Late to TAR 1 Sensor from Tray 1 RAP

381-106-00 The lead edge of the paper failed to actuate the tray 1 TAR sensor within the correct time after feeding paper from tray 1.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in tray 1. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check that the tray elevates to the feed position. Refer to 371-100-00, 371-217-00 Tray 1 Elevator Lift Failure RAP.
- Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.
- Check for damage to the chamfered edge on the left side of the tray. If necessary install a new paper tray, PL 70.10 Item 15.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

NOTE: To help fault diagnosis, install the tray 1 paper feed assembly in the tray 2 paper feed assembly position. With tray 1 removed, the operation of the feed assembly can be observed. Refer to REP 80.1.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001, Figure 1. Open the left door. Manually actuate Q81-001. The display changes.

/ N

Go to Flag 1. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5, If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006. The motor runs.

N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pullev. PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.

Check the nip roll assembly, PL 80.10 Item 10, refer to GP 7. Manually rotate the nip rolls. The nip rolls rotate.

Y N

Install new components as necessary:

- Nip roll assembly, PL 80.10 Item 10.
- Tension spring, PL 80.10 Item 7.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT71-010 is run in service mode.

Enter dC330 code 081-010, tray 1 elevator/feed motor, MOT71-010. Pull out the tray. **The feed rolls rotate.**

N

Remove the feed assembly from the machine. Manually rotate the feed roll shaft. **The drive gears rotate.**

Y N

Check the drive gears for damage. If necessary, install new components, PL 80.26.

Re-install the tray 1 feed assembly. Go to Flag 3. Check MOT71-010. Refer to:

- GP 10 How to Check a Motor.
- P/J752, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a Tray 1 elevator/feed motor, PL 80.26 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the nudger roll, PL 80.26 Item 5. The nudger roll rotates.

/ I

Check the nudger roll drive belt and drive coupling for damage. If necessary, install new components, PL 80.26.

Remove the paper tray. Manually actuate the retard nip split mechanism. The retard roll moves against the feed roll.

Y N

Check the retard roll drive coupling and mechanism for damage. If necessary, install new components, PL 80.26.

Perform the steps that follow:

- Clean the feed roll using a cloth dampened with water.
- Check the roll assembly, PL 80.26 Item 3.
- Check the paper feed assembly, PL 80.26 Item 1.

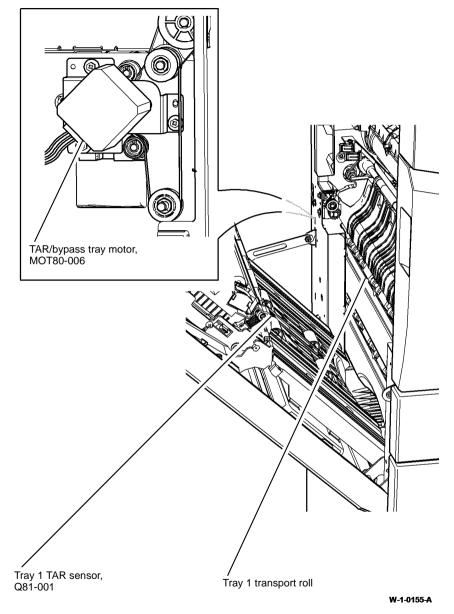


Figure 1 Component location

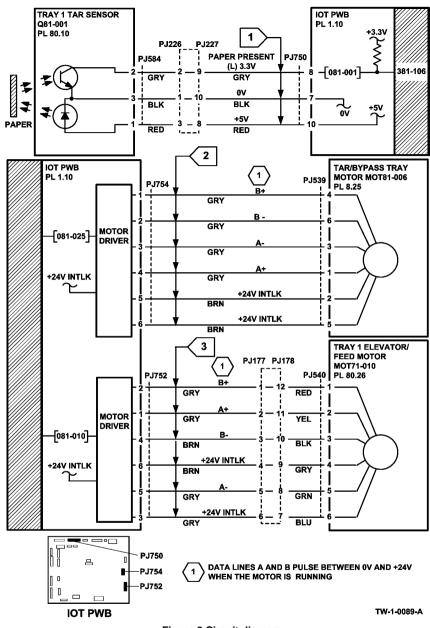


Figure 2 Circuit diagram

381-126-00 Lead Edge Late to TAR 2 Sensor from Tray 2 RAP

381-126-00 The lead edge of the paper failed to actuate the tray 2 TAR sensor within the correct time after feeding paper from tray 2.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in tray 2. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check that the tray elevates to the feed position. Refer to 372-100-00, 372-217-00 Tray 2 Elevator Lift Failure RAP.
- Check that the left door is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.
- Check for damage to the chamfered edge on the left side of the tray. If necessary install a new paper tray, PL 70.10.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001. Figure 1. Open the left door. Manually actuate Q82-001. **The display changes.**

' 1

Re-install the tray 1 feed assembly. Go to Flag 3. Check MOT71-010. Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006. The motor runs.

' N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754. IOT PWB.
- 301G +24V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls. PL 80.25 Item 7. The transport rolls rotate.

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll. PL 80.25 Item 7.

Check the nip roll assembly, PL 80.10 Item 10, refer to GP 7. Manually rotate the nip rolls. The nip rolls rotate.

Ν

Install new components as necessary:

- Nip roll assembly, PL 80.10 Item 10.
- Tension spring, PL 80.10 Item 7.



CAUTION

To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT72-010 is run in service mode.

Enter dC330 code 081-020, tray 2 elevator/feed motor, MOT72-010. Pull out the tray. The motor runs.

Ν

Remove the feed assembly from the machine. Manually rotate the feed roll shaft. The feed rolls rotate.

Ν

Check the drive gears for damage. If necessary, install new components, PL 80.26.

Install the tray 2 feed assembly. Go to Flag 3. Check MOT72-010.

Refer to:

- GP 10 How to Check a Motor.
- P/J752, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 2 elevator/feed motor, PL 80.26 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the nudger roll, PL 80.26 Item 5. The nudger roll rotates.

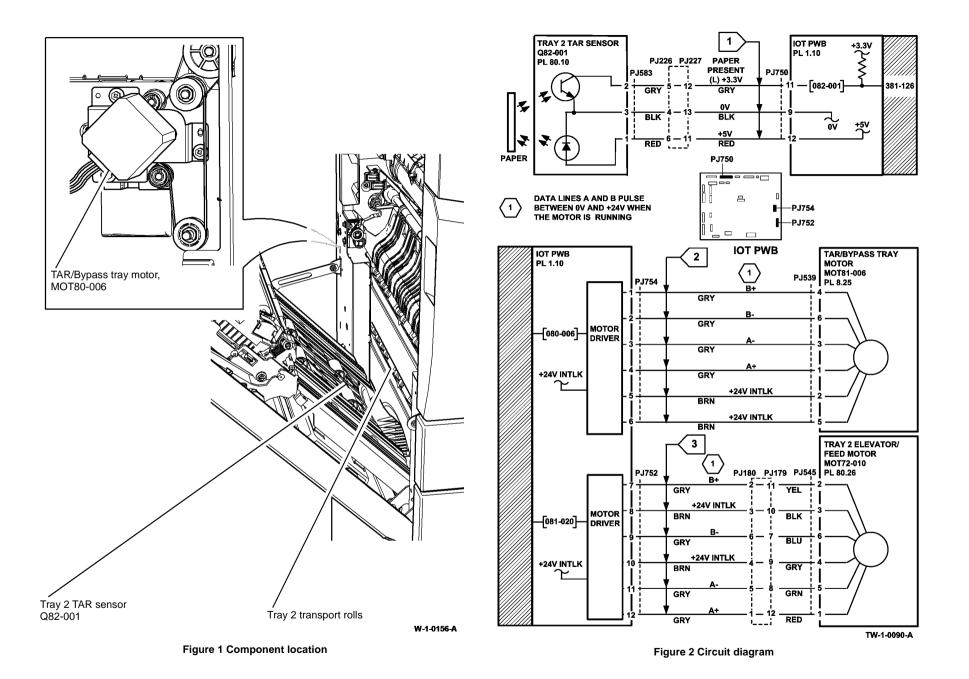
Check the nudger roll drive belt and drive coupling for damage. If necessary install new components, PL 80.26.

Remove the paper tray. Manually activate the retard nip split mechanism. The retard roll moves against the feed roll.

Check the retard roll drive coupling and mechanism for damage. If necessary install new components. PL 80.26.

Perform the steps that follow:

- Clean the feed roll using a cloth dampened with water.
- Check the feed roll assembly, PL 80.26 Item 3.
- Check the paper feed assembly, PL 80.26 Item 1.



381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP

381-136-00 The lead edge of the paper failed to actuate the tray 3 feed sensor within the correct time after feeding paper from tray 3.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Motors will become hot during normal operation.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 3. Refer to IQ1 and GP 20.
- Ensure that the tray is pushed fully home.
- Check that the left door is latched correctly.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-103, tray 3 feed sensor, Q81-103, Figure 2. Manually actuate Q81-103. **The display changes.**

/ N

Go to Flag 1. Check Q81-103.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 feed sensor, PL 80.32 Item 3. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 081-045, HCF transport motor, MOT81-045, Figure 1. The motor runs.

' N

Go to Flag 2. Check MOT81-045.

Refer to:

- GP 10 How to Check a Motor.
- P/J756, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new HCF transport motor, PL 80.36 Item 13. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the HCF transport roll, PL 80.33 Item 4. The HCF transport roll rotates.

N

Check the components that follow:

- HCF transport roll, PL 80.33 Item 4.
- Gear. PL 80.33 Item 2.
- Transport gear pulley, PL 80.36 Item 12.

Install new components as necessary.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-030 is run in service mode.

Enter dC330 code 081-030, tray 3 feed motor, MOT81-030, Figure 1. Pull out tray 3. **The motor runs.**

/ N

Go to Flag 3. Check MOT81-030.

Refer to:

- GP 10 How to Check a motor.
- P/J755. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 3 feed motor, PL 80.32 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 081-030, tray 3 feed motor, MOT81-030. Add the code 081-033, tray 3 feed clutch, CL81-033. Figure 2, Pull out tray 3, Observe the tray 3 feed and nudger rolls.

NOTE: The bypass tray clutch will also energize when component control code 081-033 is entered.

The rolls rotate.

' N

Go to Flag 4. Check CL81-033.

Refer to:

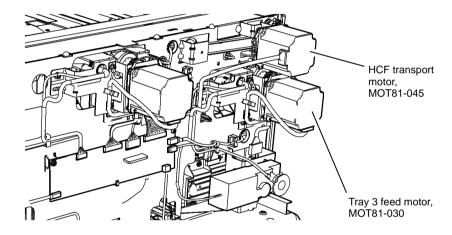
- GP 12 How to Check a Solenoid or Clutch.
- P/J755, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 3 feed clutch, PL 80.32 Item 19. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, retard roll and nudger roll for wear. If necessary install a new feed/ nudger/retard roll spares kit, PL 31.12 Item 15.

- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 3 stack height sensor actuator on the feed assembly, PL 80.32 Item 6.
- Check the tray is level.
 - 1. Pull out tray 3 and remove all of the paper from the tray.
 - 2. Remove the tray 3 front cover.
 - 3. Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the plastic outer frame of tray 3, check that the top surface of the metal paper tray is the same distance from the inside top of the slots.
 - 5. If the tray is not level, install new elevator cables, PL 70.18 Item 7.
- Check the tray 3 paper tray guide for paper cut damage. If necessary install new components, PL 70.18 Item 14.



W-1-0159-A

Figure 1 Component location

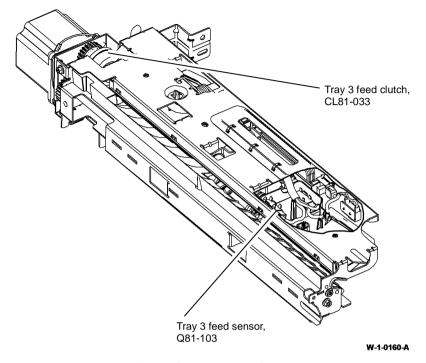
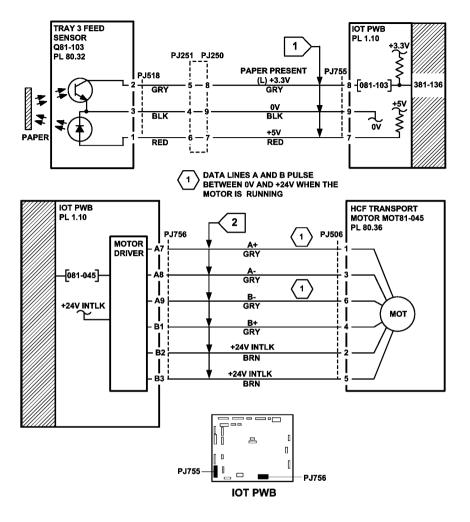


Figure 2 Component location



TW-1-0092-A

Figure 3 Circuit diagram

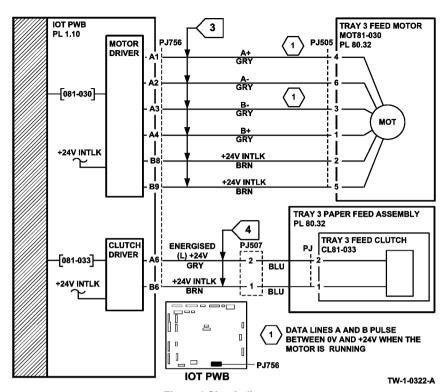


Figure 4 Circuit diagram

381-146-00 Lead Edge Late to Tray 4 Feed Sensor Entry RAP

381-146-00 The lead edge of the paper failed to actuate the tray 4 feed sensor within the correct time after feeding paper from tray 4.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the appropriate RAP:

- 381-146A-00 Lead Edge Late to Tray 4 Feed Sensor RAP (W/O TAG 009)
- 381-146B-00 Lead Edge Late to Tray 4 Feed Sensor RAP (W/TAG 009)

381-146A-00 Lead Edge Late to Tray 4 Feed Sensor RAP (W/O TAG 009)

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Ensure that the tray is pushed fully home.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Locate the tray 4 feed sensor, Figure 2. Enter dC330 code 081-104, tray 4 feed sensor, Q81-104. Manually actuate Q81-104. **The display changes.**

· 1

Go to Flag 1. Check Q81-104.

Refer to:

- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J157, Tray 4 control PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed sensor, PL 80.33 Item 6.

Enter dC330 code 081-104, tray 4 feed sensor, Q81-104. Manually actuate Q81-104. **The display changes.**

Y N

Go to Flag 2. Check the wiring between the Tray 4 control PWB and IOT PWB.

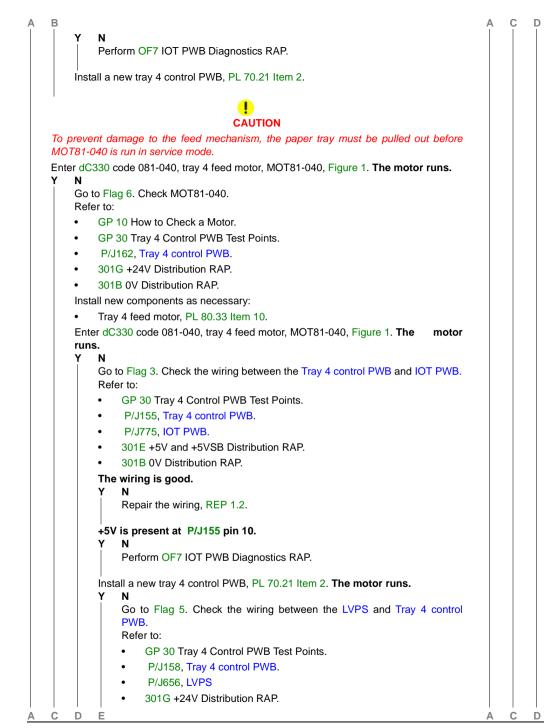
- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y N

Repair the wiring, REP 1.2.

+3.3V is present at P/J155 pin 3.



301B 0V Distribution RAP.

The wiring is good.

1

Repair the wiring, REP 1.2.

+24V is present at P/J158 pin 2.

/ N

Perform the 301L LVPS RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

N

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB.

Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

Υ

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install
 a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:

- ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y N

C

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

/ N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

Y N

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- · Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y N

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

C F

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

· N

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- · Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7, Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

′ N

Go to Flag 6. Check MOT81-040.

Refer to:

- GP 10 How to Check a Motor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed motor, PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

Y N

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

Υ

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2. The motor runs.

1

Go to Flag 5. Check the wiring between the LVPS and Tray 4 control PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J158, Tray 4 control PWB.
- P/J656, LVPS
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

/ |

Repair the wiring, REP 1.2.

+24V is present at P/J158 pin 2.

N

Perform the 301L LVPS RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

· •

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y |

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

ΥI

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.

- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7, Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll. PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y N

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162. Trav 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

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Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage. PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

N

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.

- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

ΥI

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/ nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

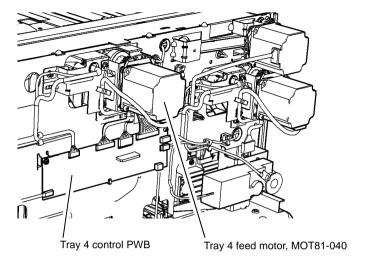
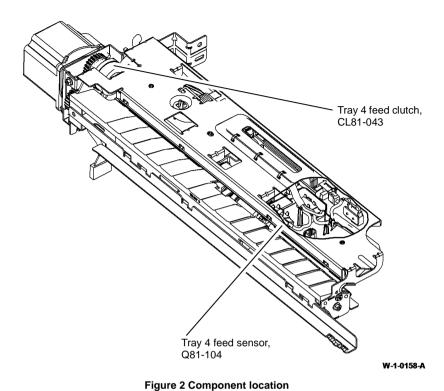
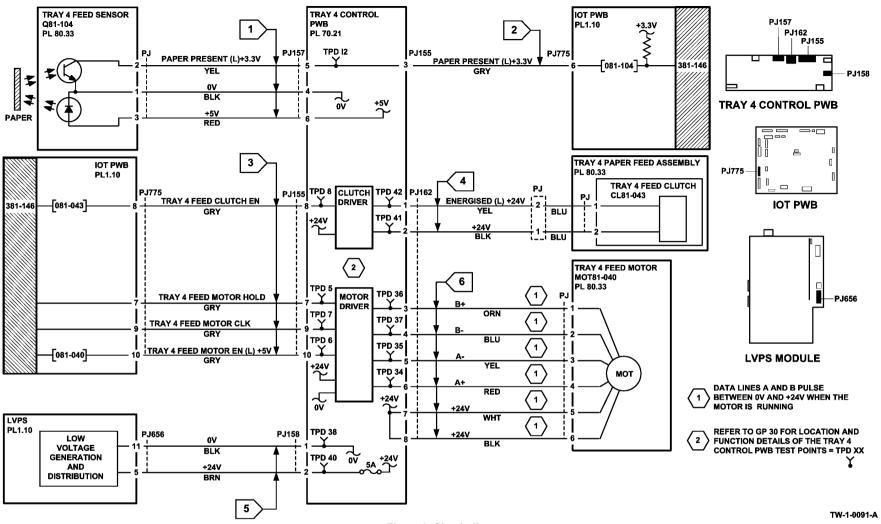


Figure 1 Component location



W-1-0157-A



381-146B-00 Lead Edge Late to Tray 4 Feed Sensor RAP (W/TAG 009)

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Ensure that the tray is pushed fully home.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Locate the tray 4 feed sensor, Figure 2. Enter dC330 code 081-104, tray 4 feed sensor, Q81-104. Manually actuate Q81-104. The display changes.

Go to Flag 1. Check Q81-104.

Refer to:

- GP 11 How to Check a Sensor.
- P/J786. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Trav 4 feed sensor, PL 80.33 Item 6.

Enter dC330 code 081-104, tray 4 feed sensor, Q81-104. Manually actuate Q81-104. The display changes.

Ν

Perform OF7 IOT PWB Diagnostics RAP.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1, The motor runs.

В

Go to Flag 3. Check MOT81-040.

Refer to:

- GP 10 How to Check a Motor.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed motor, PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

Ν

Perform OF7 IOT PWB Diagnostics RAP.

Locate the tray 4 feed clutch, CL81-043, Figure 2, Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. The rolls rotate.

Ν

Go to Flag 2. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate

Ν

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - 3. Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the trav.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.

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- The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

1

Go to Flag 2. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J785. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

• Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate

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Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the trav is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.

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- Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the trav.
- At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
- 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly. PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.



CAUTION

To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1, The motor runs.

Go to Flag 3. Check MOT81-040.

Refer to:

- GP 10 How to Check a Motor.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed motor, PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1, The motor runs.

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Perform OF7 IOT PWB Diagnostics RAP.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. The rolls rotate.

Ν

Go to Flag 2. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate

Ν

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly. PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the trav.
 - At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7, Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll. PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.

4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots

5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.

Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.

If the fault persists, refer to GP 7, Check the components that follow:

The takeaway roll assembly, PL 80.36 Item 2.

The idler roll assembly, PL 80.36 Item 8.

HCF transport roll, PL 80.33 Item 4.

- The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 2. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

1

Go to Flag 2. Check CL81-043.

Refer to:

GP 12 How to Check a Solenoid or Clutch.

P/J785, IOT PWB.

301G +24V Distribution RAP.

301B 0V Distribution RAP.

Install new components as necessary:

Trav 4 feed clutch, PL 80.33 Item 21.

The rolls rotate

N

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.

 Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.

Perform the adjustments that follow:

 ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.

ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.

Ensure that dC131 500-143 is set to the nominal value of 1800.

Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.

Check the tray is level:

1. Pull out tray 4. Remove all the paper from the tray.

2. Remove the tray 4 front cover.

3. Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.

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4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots

5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.

Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.

If the fault persists, refer to GP 7. Check the components that follow:

- The takeaway roll assembly, PL 80.36 Item 2.

The idler roll assembly, PL 80.36 Item 8.

HCF transport roll, PL 80.33 Item 4.

The idler roll assembly. PL 80.32 Item 2.

Install new components as necessary.

Perform the steps that follow:

Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.

 Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/ nudger/retard roll spares kit, PL 31.12 Item 15.

Perform the adjustments that follow:

 ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.

ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.

Ensure that dC131 500-143 is set to the nominal value of 1800.

Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.

Check the tray is level:

1. Pull out tray 4. Remove all the paper from the tray.

2. Remove the tray 4 front cover.

Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.

4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots

5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.

Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.

If the fault persists, refer to GP 7. Check the components that follow:

The takeaway roll assembly, PL 80.36 Item 2.

The idler roll assembly, PL 80.36 Item 8.

HCF transport roll, PL 80.33 Item 4.

The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

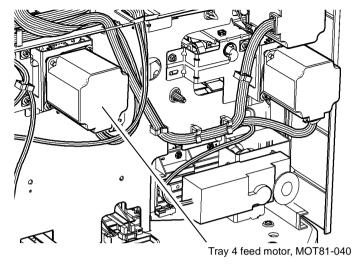


Figure 1 Component location

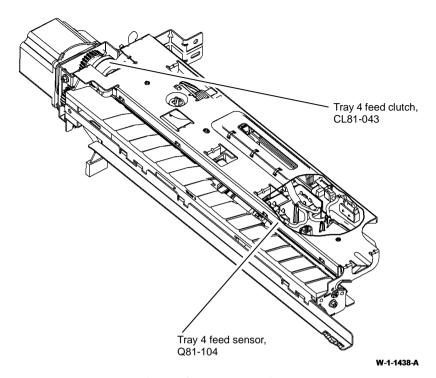
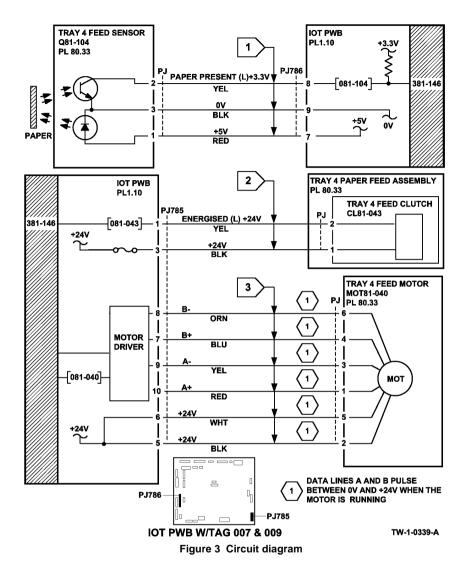


Figure 2 Component location

W-1-1437-A



381-151-00 Lead Edge Late to Registration Sensor RAP

381-151-00 The lead edge of the paper was late to the registration sensor when feeding in simplex mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the fault occurs from the bypass tray, perform the 381-155-00 Late to Registration Sensor from Bypass Tray RAP.
- If 2 sheets of paper are jammed at the registration rolls. Perform the OF8 Multifeed RAP.
- If multifeeds occur from tray 3 or tray 4, increasing the retard roll nip pressure will make the retard action more aggressive and may lessen the occurrence of multifeeds. Perform ADJ 80.3.
- Check the condition of the paper in all trays. Refer to IQ1 and GP 20.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl, refer to IQ5.
- Check for skew. Refer to IQ8.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Open the left door. Actuate Q82-150. **The display changes.**

′ N

Go to Flag 1. Check Q82-150.

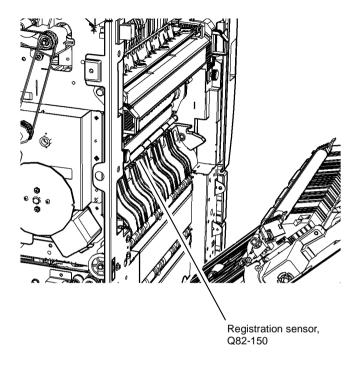
Refer to:

- GP 11 How to check a Sensor.
- P/J763. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

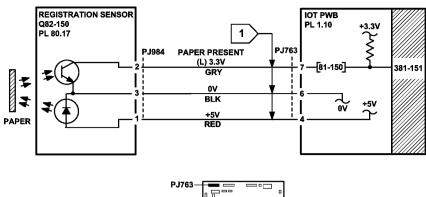
If the fault persists, perform the appropriate RAP:

- 381-190-00 Lead Edge Late to Registration Sensor from Tray 1.
- 381-191-00 Lead Edge Late to Registration Sensor from Tray 2.
- 381-192-00 Lead Edge Late to Registration Sensor from Tray 3.
- 381-193-00 Lead Edge Late to Registration Sensor from Tray 4.



W-1-1212-A

Figure 1 Component location





TW-1-0101-A

Figure 2 Circuit diagram

381-152-00 Trail Edge Late from Registration Sensor RAP

381-152-00 The trail edge of the paper was late from the registration sensor when feeding in simplex mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If 2 sheets of paper are jammed at the registration rolls. Perform the OF8 Multifeed RAP.
- If multifeeds occur from tray 3 or tray 4, increasing the retard roll nip pressure will make the retard action more aggressive and may lessen the occurrence of multifeeds. Perform ADJ 80.3.
- If the fault occurs from the bypass tray, perform the 381-155-00 Late to Registration Sensor from Bypass Tray RAP.
- Check the condition of the paper in all travs. Refer to IQ1 and GP 20.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl, refer to IQ5.
- Check for skew. Refer to IQ8.
- Check for paper in the fuser module.

Procedure

Open the left door. Enter dC330 code 010-020, fuser drive motor, MOT10-020, Figure 1. Observe the fuser roll and the pressure roll through the top of the fuser. **The fuser rolls turn.**

/ N

Go to Flag 1. Check MOT10-020.

Refer to:

- GP 10, How to Check a Motor.
- P/J761, IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new main drive module, PL 40.15 Item 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 093-045, print cartridge motor, MOT93-045, Figure 1. Observe the photoreceptor. **The photoreceptor turns.**

N

Go to Flag 1. Check MOT93-045.

Refer to:

- GP 10, How to check a Motor.
- P/J756. IOT PWB.
- P/J656.LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Main drive module, PL 40.15 Item 1.
- Print cartridge, PL 90.17 Item 9.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 2. Actuate Q82-150. **The display changes.**

/

Go to Flag 2. Check Q82-150.

Refer to:

- GP 11 How to check a Sensor.
- P/J762, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-040, registration motor, MOT80-040, Figure 2. The motor runs.

Go to Flag 3. Check MOT80-040.

Refer to:

- GP 10. How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration motor, PL 40.15 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the registration roll. PL 80.17 Item 5. The registration roll turns.

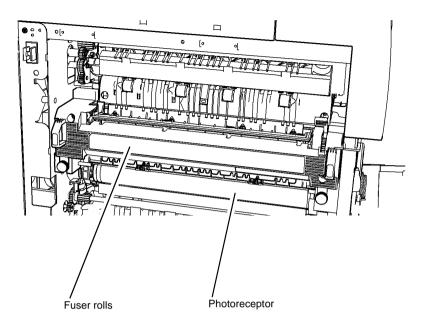
/ N

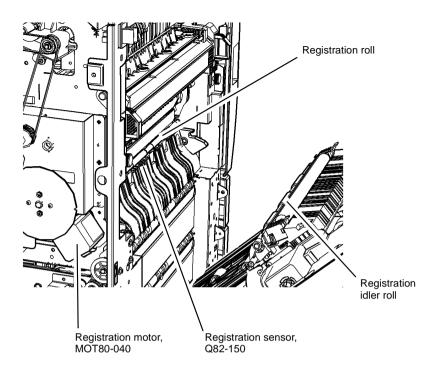
Check the registration drive gear, PL 80.17 Item 3. Install new components as necessary.

Refer to GP 7 and OF10 Intermittent Fault RAP. Check the components that follow:

- Registration nip roll, PL 80.15 Item 4.
- Bias transfer roll, PL 80.15 Item 3.
- Registration roll, PL 80.17 Item 6.
- Track (DTS), PL 90.10 Item 6, from the detack saw to the HVPS.

Install new components as necessary. If the fault persists, perform the 381A Paper Feed Retries RAP.



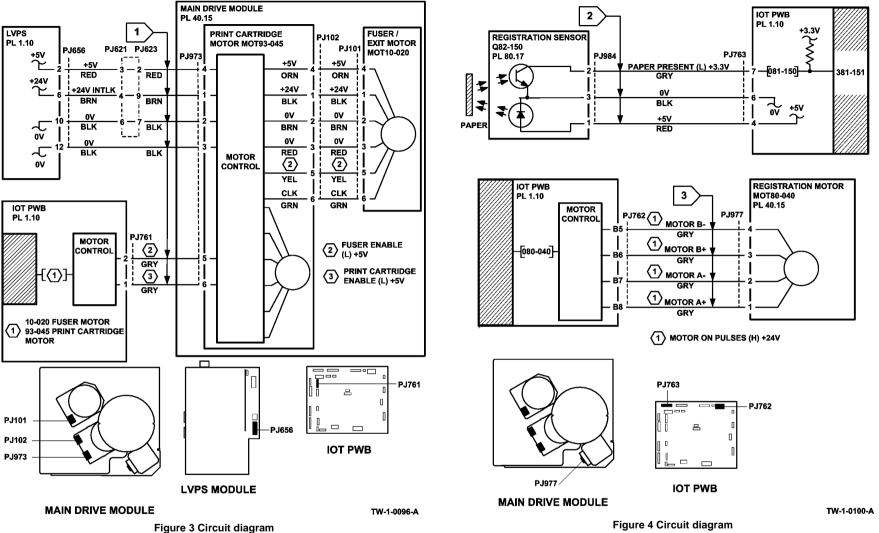


W-1-1213-A

W-1-0166-A

Figure 2 Component location

Figure 1 Component location



381-155-00 Lead Edge Late to Registration Sensor from the Bypass Tray RAP

381-155-00 The lead edge of the paper was late to the registration sensor when feeding from the bypass tray.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in the bypass tray. Refer to IQ1 and GP 20.
- Ensure that the bypass tray is not overfilled.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the bypass tray is installed correctly, REP 70.2.
- Check the fault history file for the fault code 375-100-00. If necessary, perform the 375-100-00 Bypass Tray Lift Failure RAP.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Open the left door. Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Actuate Q82-150. **The display changes.**

/ N

Go to Flag 1. Check Q82-150.

Refer to:

- GP 11 How to Check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

With the left door closed, enter dC330 code 080-025, TAR/bypass tray motor, MOT80-006, in reverse, Figure 1. **The motor runs in reverse.**

/ I

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10. How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-025, TAR/bypass tray motor, in reverse MOT80-006. Add the code 081-033, tray 3 feed clutch, See Note. Observe the feed roll assembly, PL 70.35 Item 14.

NOTE: The bypass tray clutch will also energize when component control code 081-033 is entered.

The feed roll assembly rotates.

Υ

Go to Flag 3. Check the bypass tray clutch, PL 70.35 Item 9. Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J757, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

The clutch is good.

N

If necessary, install a new bypass tray clutch, PL 70.35 Item 9. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the condition and operation of the components that follow. Refer to GP 7 Miscellaneous Checks:

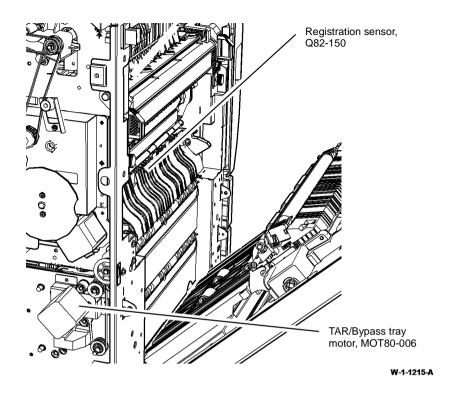
- Bypass tray drive assembly, Figure 2.
- Tension spring, Figure 2.
- Bypass tray drive belt, PL 80.25 Item 10.
- Drive pulley, PL 80.25 Item 3.

Install new components as necessary:

- Bypass tray assembly, PL 70.35 Item 1.
- Bypass tray drive belt, PL 80.25 Item 10.
- Drive pulley, PL 80.25 Item 3.

Refer to GP 7 Miscellaneous Checks. Perform the steps that follow:

- Check the bypass tray feed roll, PL 70.35 Item 14, retard roll, PL 70.35 Item 16 and retard pad. PL 70.35 Item 6.
- If necessary clean the feed roll, retard roll and retard pad using a cloth dampened with water
- If necessary install new components, PL 70.35.





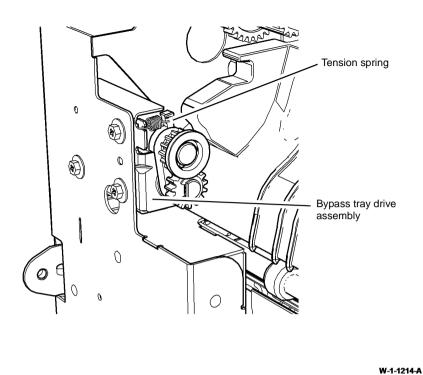
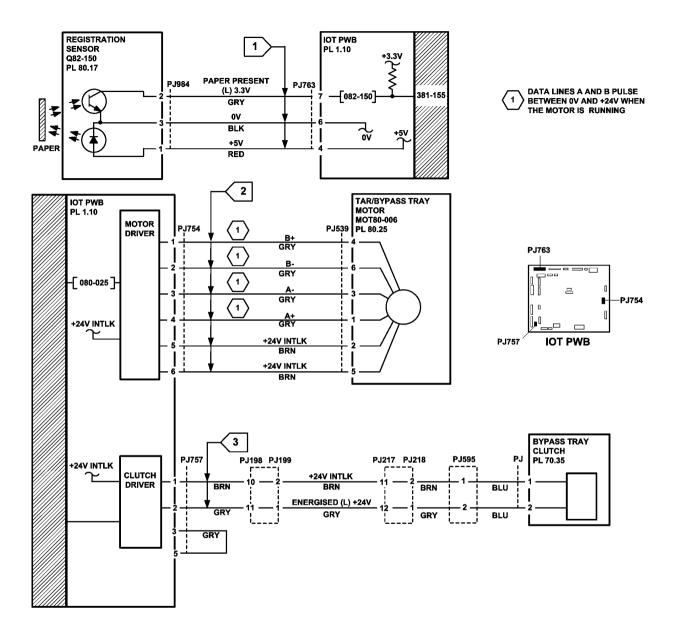


Figure 2 Component location



TW-1-0299-A

Figure 3 Circuit diagram

381-159-00 Lead Edge Late to HCF Exit Sensor from Tray 3 RAP

381-159-00 The lead edge of the paper was late to the HCF exit sensor when feeding from tray 3.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Motors will become hot during normal operation.

- Check the condition of the paper in tray 3. Refer to IQ1 and GP 20.
- Check for obstructions in tray 3 paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Ensure that tray 3 is pushed fully home.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-108, HCF exit sensor, Q81-108, Figure 1. Manually actuate Q81-108. **The display changes.**

/ N

Go to Flag 1. Check Q81-108.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new HCF exit sensor, PL 80.32 Item 3. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 081-045, HCF transport motor, MOT81-045, Figure 1. The motor runs.

(

Go to Flag 2. Check MOT81-045.

Refer to:

- GP 10 How to Check a Motor.
- P/J756, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new HCF transport motor, PL 80.36 Item 13. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the takeaway roll, PL 80.36 Item 2 and HCF transport roll, PL 80.33 Item 4. **The takeaway and HCF transport rolls rotates.**

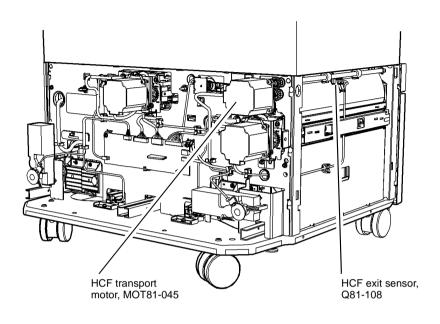
′ N

Check the components that follow:

- Drive belt, PL 80.36 Item 6.
- Drive coupling, PL 80.36 Item 7.
- Takeaway roll assembly, PL 80.36 Item 2.
- Idler roll assembly, PL 80.32 Item 2.
- Transport gear pulley, PL 80.36 Item 12.
- HCF transport roll, PL 80.33 Item 4.
 Install new components as necessary.

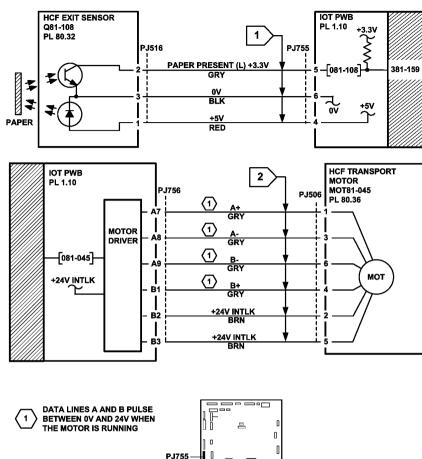
Perform the procedures that follow:

- ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure.
- 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP.



W-1-1253-A

Figure 1 Component location



PJ755 PJ756 **IOT PWB**

TW-1-0307-A

Figure 2 Circuit diagram

381-161-00 Lead Edge Late to Registration Sensor Duplex Mode RAP

381-161-00 The lead edge was late to the registration sensor in duplex mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in all trays. Refer to IQ1 and GP 20.
- Check for paper in the inverter and duplex transport.
- Check for obstructions in the paper path.
- · Check the left door assembly is fully closed.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure



Take care during this procedure. Motors will become hot during normal operation.

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Open the left door. Enter dC330 code 083-160, duplex sensor, Q83-160, Figure 1. Open the inner duplex door. Manually actuate Q83-160. **The display changes.**

N

Go to Flag 1. Check Q83-160.

Refer to:

- GP 11 How to Check a Sensor.
- P/J759, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex sensor, PL 80.10 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the duplex motor cover PL 80.22 Item 21. Locate the duplex motor, MOT83-060, Figure 1. Enter dC330 code 083-062, duplex motor fast speed. **The motor runs.**

Y N

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762. IOT PWB.
- 301G +24V Distribution RAP.

301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 083-060, duplex motor slow speed, MOT83-060, The motor runs.

′ N

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the duplex rolls, PL 80.22. The upper, mid and lower duplex rolls rotate.

Υ

Refer to GP 7. Check the components that follow:

- Upper duplex roll, PL 80.22 Item 14.
- Mid duplex rolls, PL 80.22 Item 15.
- Lower duplex roll, PL 80.22 Item 13.
- Drive belt (65T), PL 80.22 Item 2.
- Drive belt (89T), PL 80.22 Item 3.
- Drive belt (45T), PL 80.22 Item 4.

Install new components as necessary.

Check the duplex roll idlers, PL 80.10 Item 11, refer to GP 7. Manually rotate the idler rolls. **The idler rolls rotate.**

/ N

Install new components as necessary:

- Duplex roll idler, PL 80.10 Item 11.
- Idler spring, PL 80.10 Item 12.

The fault persists

′ N

Perform SCP 5 Final Actions.

Enter dC330 code 082-150, registration sensor, Q82-150. Manually actuate Q82-150 with a strip of paper, Figure 2. **The display changes.**

' N

Go to Flag 3. Check Q82-150.

Refer to:

- GP 11 How to Check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Status Indicator RAPs

Refer to GP 7 and OF10 Intermittent Fault RAP. Check the components that follow:

- Registration nip roll, PL 80.15 Item 4.
- Registration roll, PL 80.17 Item 5.
- Registration drive pulley, PL 80.17 Item 3.
- Registration drive belt, PL 80.17 Item 4.

Install new components as necessary.

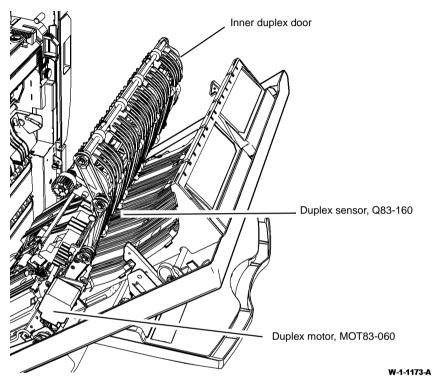


Figure 1 Component location

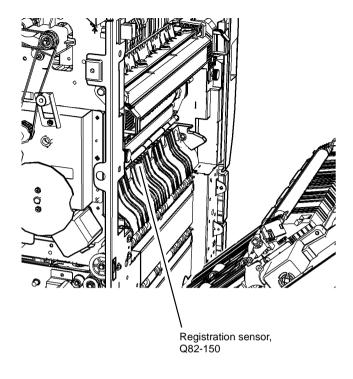


Figure 2 Component location

W-1-1217-A

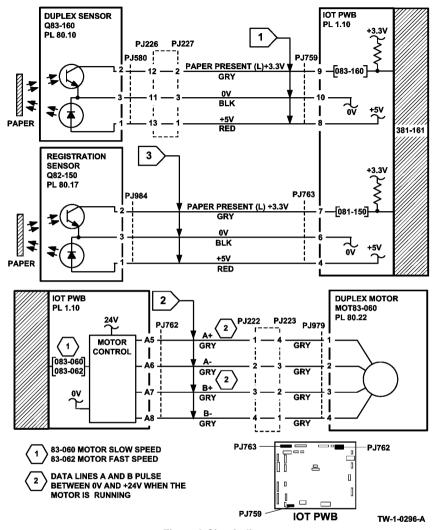


Figure 3 Circuit diagram

381-162-00 Trail Edge Late from Registration Sensor Duplex Mode RAP

381-162-00 The trail edge was late from the registration sensor in duplex mode.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in all trays. Refer to IQ1 and GP 20.
- Check for paper in the inverter and duplex transport.
- · Check for obstructions in the paper path.
- Check the left door assembly is fully closed.

Procedure



Take care during this procedure. Motors will become hot during normal operation.

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Open the left door. Enter dC330 code 083-160, duplex sensor, Q83-160, Figure 1. Open the inner duplex door. Manually actuate Q83-160. **The display changes.**

1

Go to Flag 1. Check Q83-160.

Refer to:

- GP 11 How to Check a Sensor.
- P/J759, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex sensor, PL 80.10 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the duplex motor cover, PL 80.22 Item 21. Locate the duplex motor, MOT83-060, Figure 1. Enter dC330 code 083-062, duplex motor fast speed. **The motor runs.**

N

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 083-060, duplex motor slow speed, MOT83-060, Figure 1. **The motor runs.**

N

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe how the motor belt, PL 80.22 Item 4 tracks on the pulleys. **The belt tracks correctly in the centre of the pulleys.**

/ I

Carefully reform the motor bracket so that the belt tracks correctly.

Observe the duplex rolls, PL 80.22. The upper, mid and lower duplex rolls rotate.

1

Refer to GP 7. Check the components that follow:

- Upper duplex roll, PL 80.22 Item 14.
- Mid duplex rolls, PL 80.22 Item 15.
- Lower duplex roll, PL 80.22 Item 13.
- Drive belt (65T), PL 80.22 Item 2.
- Drive belt (89T), PL 80.22 Item 3.
- Drive belt (45T), PL 80.22 Item 4.

Install new components as necessary.

Check the duplex roll idlers, PL 80.10 Item 11, refer to GP 7. Manually rotate the idler rolls. **The idler rolls rotate.**

Y N

Install new components as necessary:

- Duplex roll idler, PL 80.10 Item 11.
- Idler spring, PL 80.10 Item 12.

Enter dC330 code 093-045, print cartridge motor, MOT93-045. Observe the photoreceptor, Figure 2. The photoreceptor turns.

/ N

Go to Flag 5. Check MOT93-045.

Refer to:

- GP 10. How to check a Motor.
- P/J761, IOT PWB.
- P/J656, LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.

301B 0V Distribution RAP.

Install new components as necessary:

- Main drive module, PL 40.15 Item 1.
- Print cartridge, PL 90.17 Item 9.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 082-150, registration sensor, Q82-150. Manually actuate Q82-150, Figure 2. **The display changes.**

N

В

Go to Flag 3. Check Q82-150.

Refer to:

- GP 11 How to Check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-040, registration motor, MOT80-040. Observe the registration roll, Figure 2. The registration roll turns.

N

Go to Flag 4. Check MOT80-040.

Refer to:

- GP 10, How to Check a Motor.
- P/J762, IOT PWB.

If necessary, install a new registration motor, PL 40.15 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Refer to GP 7 and OF10 Intermittent Fault RAP. Check the components that follow:

- Registration idler roll. PL 80.15 Item 4.
- Bias transfer roll, PL 80.15 Item 3.
- Registration roll, PL 80.17 Item 6.
- Registration drive pulley, PL 80.17 Item 3.
- Registration drive belt, PL 80.17 Item 4.
- Track (DTS), PL 90.10 Item 6, from the detack saw to the HVPS.

Install new components as necessary.

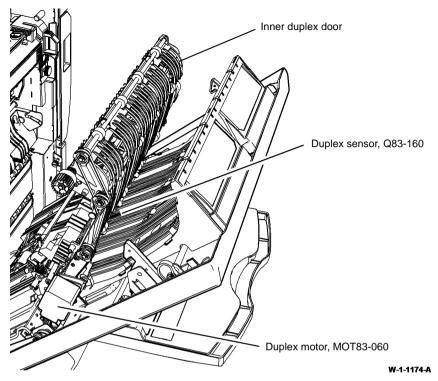


Figure 1 Component location

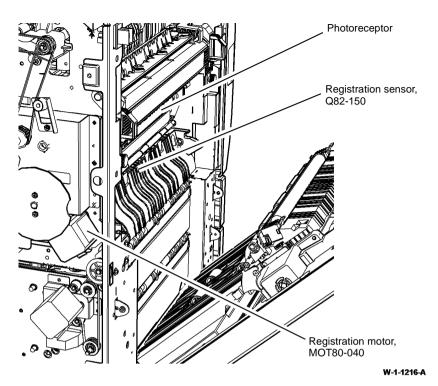
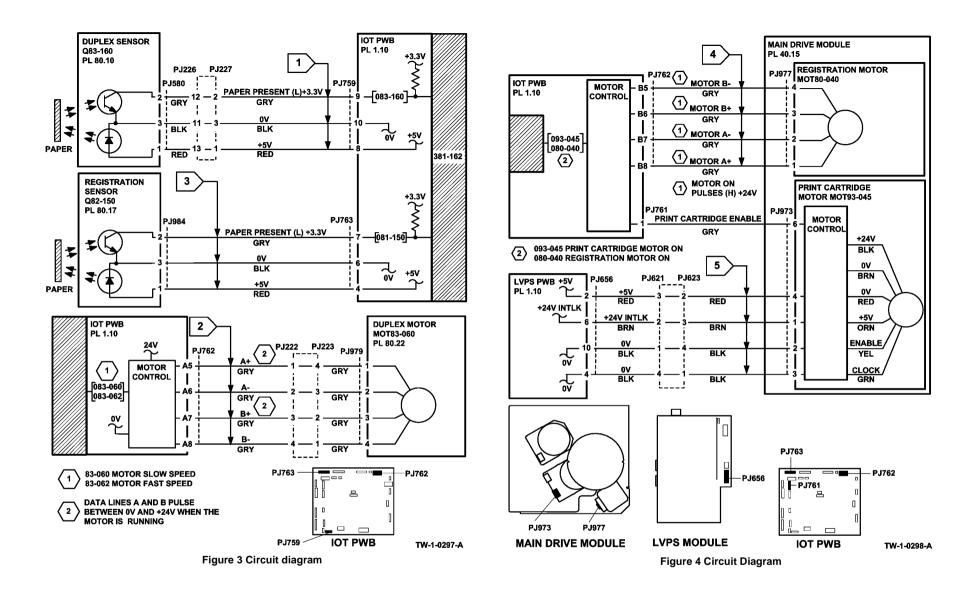


Figure 2 Component location



381-167-00 Lead Edge Late to Tray 4 Exit Sensor Entry RAP

381-167-00 The lead edge of the paper was late to the tray 4 exit sensor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the appropriate RAP:

- 381-167A-00 Lead Edge Late to Tray 4 Exit Sensor RAP (W/OTAG 009)
- 381-167B-00 Lead Edge Late to Tray 4 Exit Sensor RAP (W/TAG 009)

381-167A-00 Lead Edge Late to Tray 4 Exit Sensor RAP (W/O TAG 009)

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If a misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00
 Tray 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Check tray 4 closes correctly, ADJ 80.5 Tray 4 Closing Alignment. If necessary perform the adjustment.
- Check the condition of the tray 4 exit sensor bracket.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-150, tray 4 exit sensor, Q81-150, Figure 2. Manually actuate Q81-150. **The display changes.**

Y N

Go to Flag 1. Check Q81-150.

Refer to:

- GP 11 How to Check a Sensor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J161, Tray 4 control PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 exit sensor, PL 80.33 Item 6.

Enter dC330 code 081-150, tray 4 exit sensor, Q81-150. Manually actuate Q81-150. **The display changes.**

Y N

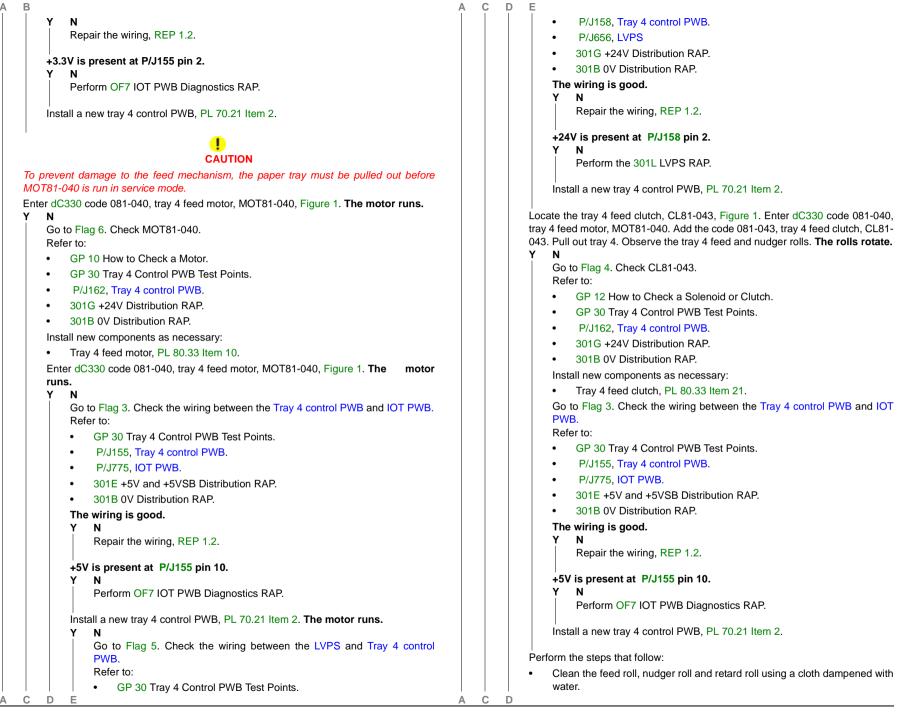
Go to dC330. Check the wiring between the Tray 4 control PWB and IOT PWB.

Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301B 0V Distribution RAP.

The wiring is good.

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- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
 - · Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
 - Ensure that dC131 500-143 is set to the nominal value of 1800.
 - Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
 - Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - 3. Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
 - Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
 - If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y N

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Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162. Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Trav 4 feed clutch. PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.

301B 0V Distribution RAP.

The wiring is good.

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Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- · Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly. PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

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Go to Flag 4. Check CL81-043.

Refer to:

GP 12 How to Check a Solenoid or Clutch.

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- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

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Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Perform OF7 IOT PWB Diagnostics RAP.

Install a new trav 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- · Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.

- The idler roll assembly, PL 80.36 Item 8.
- HCF transport roll, PL 80.33 Item 4.
- The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

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Go to Flag 6. Check MOT81-040.

Refer to:

- GP 10 How to Check a Motor.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Trav 4 feed motor. PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

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Go to Flag 3. Check the wiring between the Tray 4 control PWB and Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2. The motor runs.

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Go to Flag 5. Check the wiring between the LVPS and Tray 4 control PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J158, Tray 4 control PWB.
- P/J656, LVPS
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

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The wiring is good.

Y N

Repair the wiring, REP 1.2.

+24V is present at P/J158 pin 2.

N

Perform the 301L LVPS RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y N

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

• Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155. Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

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Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.

- ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 ltem 7.
- Check the trav is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y 1

Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

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Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

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Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

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Go to Flag 4. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- GP 30 Tray 4 Control PWB Test Points.
- P/J162, Tray 4 control PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

• Tray 4 feed clutch, PL 80.33 Item 21.

Go to Flag 3. Check the wiring between the Tray 4 control PWB and IOT PWB. Refer to:

- GP 30 Tray 4 Control PWB Test Points.
- P/J155, Tray 4 control PWB.
- P/J775. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

The wiring is good.

Y N

Repair the wiring, REP 1.2.

+5V is present at P/J155 pin 10.

Y 1

Perform OF7 IOT PWB Diagnostics RAP.

Install a new tray 4 control PWB, PL 70.21 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/ nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

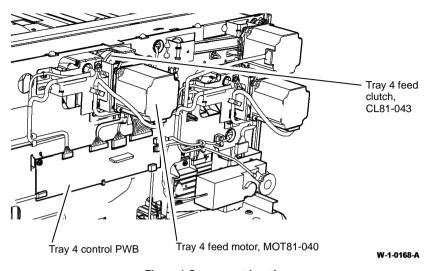


Figure 1 Component location

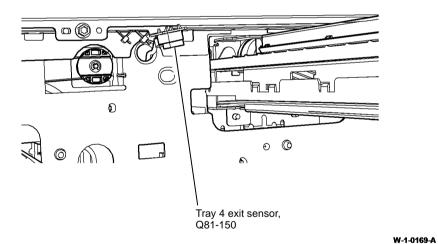


Figure 2 Component location

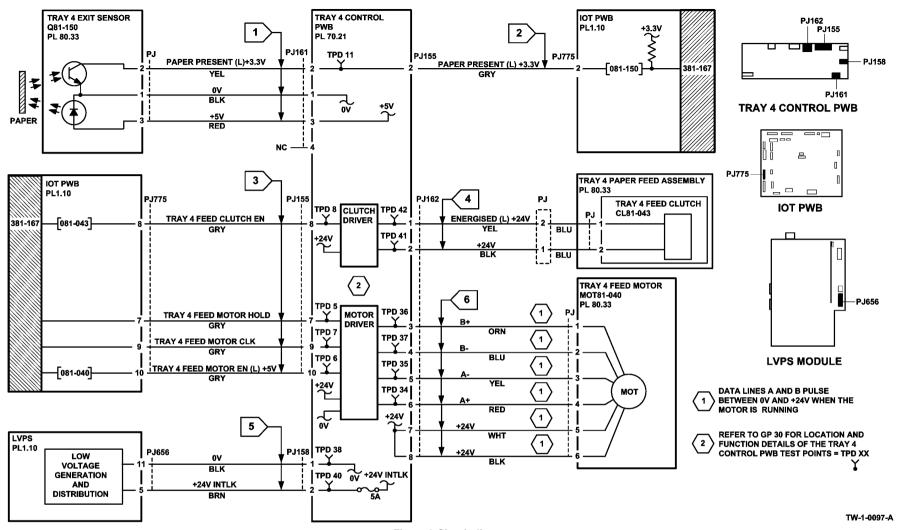


Figure 3 Circuit diagram

381-167B-00 Lead Edge Late to Tray 4 Exit Sensor RAP (W/ **TAG 009)**

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If a misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00 Trav 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Check tray 4 closes correctly, ADJ 80.5 Tray 4 Closing Alignment. If necessary perform the adjustment.
- Check the condition of the tray 4 exit sensor bracket.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-150, tray 4 exit sensor, Q81-150, Figure 2. Manually actuate Q81-150. The display changes.

Ν

Go to Flag 1. Check Q81-150.

Refer to:

- GP 11 How to Check a Sensor.
- P/J786. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 exit sensor, PL 80.33 Item 6.

Enter dC330 code 081-150, tray 4 exit sensor, Q81-150. Manually actuate Q81-150. The display changes.

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Perform OF7 IOT PWB Diagnostics RAP.



CAUTION

To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

Go to Flag 3. Check MOT81-040.

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Refer to:

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- GP 10 How to Check a Motor.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed motor, PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1, The runs.

Perform OF7 IOT PWB Diagnostics RAP.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Add the code 081-043, tray 4 feed clutch, CL81-043, Pull out tray 4. Observe the tray 4 feed and nudger rolls. The rolls rotate.

Go to Flag 2. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate.

Perform OF7 IOT PWB Diagnostics RAP.

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.

- outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
- 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- · Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly. PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

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Go to Flag 2. Check CL81-043.

Refer to:

D

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate.

/ N

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 ltem 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:

- ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
- ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT81-040 is run in service mode.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

1

Go to Flag 3. Check MOT81-040.

Refer to:

- GP 10 How to Check a Motor.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed motor, PL 80.33 Item 10.

Enter dC330 code 081-040, tray 4 feed motor, MOT81-040, Figure 1. The motor runs.

Υ

Perform OF7 IOT PWB Diagnostics RAP.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

Y

Go to Flag 2. Check CL81-043.

Status Indicator RAPs 381-167B-00

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate.

' N

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- · Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll. PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:

- ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Locate the tray 4 feed clutch, CL81-043, Figure 1. Enter dC330 code 081-040, tray 4 feed motor, MOT81-040. Add the code 081-043, tray 4 feed clutch, CL81-043. Pull out tray 4. Observe the tray 4 feed and nudger rolls. **The rolls rotate.**

1

Go to Flag 2. Check CL81-043.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J785, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

Tray 4 feed clutch, PL 80.33 Item 21.

The rolls rotate.

N

Perform OF7 IOT PWB Diagnostics RAP.

Perform the steps that follow:

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.

Ensure that dC131 500-143 is set to the nominal value of 1800.

- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item
 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

Install new components as necessary.

- Clean the feed roll, nudger roll and retard roll using a cloth dampened with water.
- Check the feed roll, nudger roll and retard roll for wear. If necessary install a new feed/ nudger/retard roll spares kit, PL 31.12 Item 15.
- Perform the adjustments that follow:
 - ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure. Ensure the spring seat set in the nominal (1mm) position.
 - ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure.
- Ensure that dC131 500-143 is set to the nominal value of 1800.
- Check the tray 4 stack height sensor actuator on the feed assembly, PL 80.33 Item 7.
- Check the tray is level:
 - 1. Pull out tray 4. Remove all the paper from the tray.
 - 2. Remove the tray 4 front cover.
 - Manually elevate the tray to the top of its travel by rotating the elevator cable drum at the front of the tray.
 - 4. At the 3 locations where the metal paper tray protrudes through the outer plastic frame of tray 4, check that the top surface of the metal paper tray is the same distance from the inside top of the slots
 - 5. If the tray is not level, install new elevator cables, PL 70.19 Item 7.
- Check the tray 4 paper tray guide for paper cut damage, PL 70.19 Item 17.
- If the fault persists, refer to GP 7. Check the components that follow:
 - The takeaway roll assembly, PL 80.36 Item 2.
 - The idler roll assembly, PL 80.36 Item 8.
 - HCF transport roll, PL 80.33 Item 4.
 - The idler roll assembly, PL 80.32 Item 2.

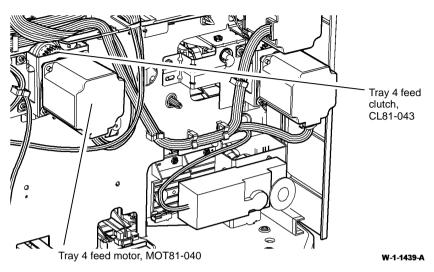


Figure 1 Component location

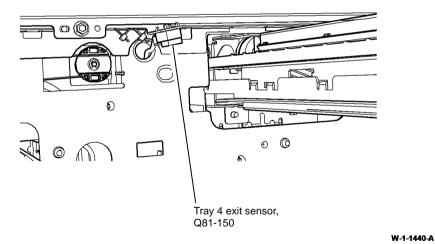
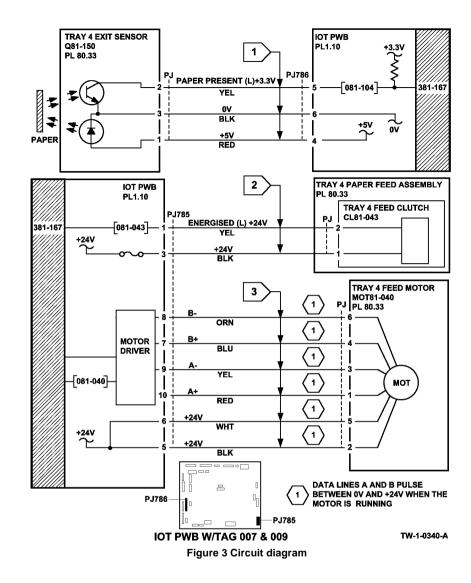


Figure 2 Component location



381-190-00 Lead Edge Late to Registration Sensor from Tray 1 RAP

381-190-00 The lead edge of the paper was late to the registration sensor when feeding from tray 1.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If 2 sheets of paper are jammed at the registration rolls, perform the OF8 Multifeed RAP.
- Check the condition of the paper in tray 1. Refer to IQ1 and GP 20.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- · Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl, refer to IQ5.
- Check for skew. Refer to IQ8.
- Clean the tray 1 paper feed assembly feed rolls.
- Clean the transport rolls between tray 1 and the registration area.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Open the left door assembly. Actuate Q82-150. **The display changes.**

N

Go to Flag 1. Check Q82-150.

Refer to:

- GP 11 How to check a Sensor.
- P/J763. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 1 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the drive pulley, PL 80.25 Item 3. **The transport roll rotates in one direction only.**

N

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006, Figure 1. The motor runs.

' N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

′ N

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.

Apply pressure to the tray 1 transport roll, Figure 1. The transport roll stalls.

- 1

If the fault persists, perform the 381-106-00 Lead Edge Late to TAR 1 Sensor from Tray 1 RAP.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

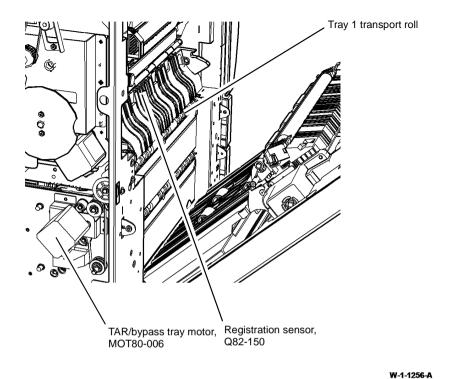


Figure 1 Component location

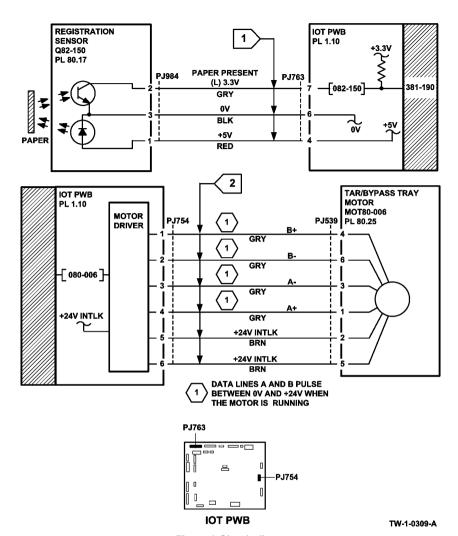


Figure 2 Circuit diagram

381-191-00 Lead Edge Late to Registration Sensor from Tray 2 RAP

381-191-00 The lead edge of the paper was late to the registration sensor when feeding from tray 2.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If 2 sheets of paper are jammed at the registration rolls, perform the OF8 Multifeed RAP.
- Check the condition of the paper in tray 2. Refer to IQ1 and GP 20.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl, refer to IQ5.
- Check for skew. Refer to IQ8.
- Clean the tray 2 paper feed assembly feed rolls.
- Clean the transport rolls between tray 2 and the registration area.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Open the left door assembly. Actuate Q82-150. **The display changes.**

N

Go to Flag 1. Check Q82-150.

Refer to:

- GP 11 How to check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. **The transport roll rotates in one direction only.**

N

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Manually rotate the tray 1 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the drive pulley. PL 80.25 Item 3. The transport roll rotates in one direction only.

' N

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT 80-006, Figure 1. The motor runs.

ΥI

Got to Flag 2. Check MOt 80-006.

Refer to:

- GP 10 How to check a motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution Rap.

If necessary, install a new TAT/bypass tray motor, PL 80.25 Item 5.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

' N

Check the transport roll drive belt, drive pulley and pullet, PL 80.25.

Install new components as necessary:

- Transport roll drive belt, PL PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearings, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.

Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

, . . . , . . .

Apply pressure to the tray 1 transport roll, Figure 1. The transport roll stalls.

Y I

If the fault persists perform the 381-194-00 Lead Edge Late to TAR 1 Sensor from Tray 2 RAP.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

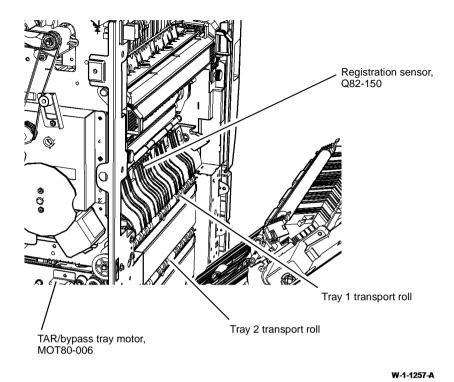


Figure 1 Component location

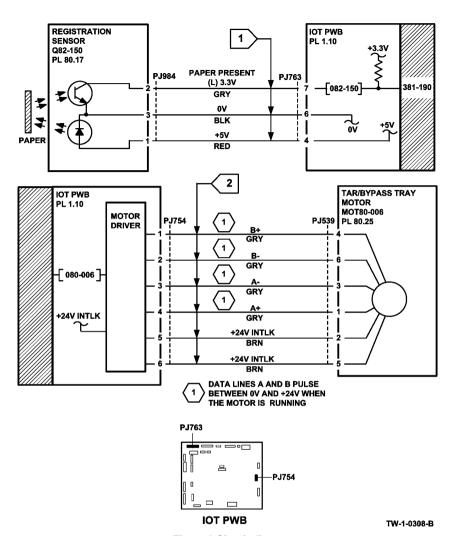


Figure 2 Circuit diagram

381-192-00 Lead Edge Late to Registration Sensor from Tray 3 RAP

381-192-00 The lead edge of the paper was late to the registration sensor when feeding from tray 3.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If 2 sheets of paper are jammed at the registration rolls, perform the OF8 Multifeed RAP.
- Increasing the retard roll nip pressure will make the retard action more aggressive and may lessen the occurrence of multifeeds. Perform ADJ 80.3.
- Check the condition of the paper in tray 3. Refer to IQ1 and GP 20.
- Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Trav 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl, refer to IQ5.
- Check for skew. Refer to IQ8.
- Clean the tray 3 paper feed assembly feed rolls.
- Clean the transport rolls between tray 3 and the registration area.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Open the left door. Actuate Q82-150. The display changes.

Ν

Go to Flag 1. Check Q82-150.

Refer to:

- GP 11 How to check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001, Figure 2. Manually actuate Q81-001. The display changes.

Ν

Go to Flag 2. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT diagnostics RAP.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 2. Manually actuate Q82-001. The display changes.

Ν

Go to Flag 3. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

Ν

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Manually rotate the tray 1 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the drive pulley, PL 80.25 Item 3. The transport roll rotates in one direction only.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006 TAR/Bypass tray motor MOT80-006. The motor runs.

Go to Flag 4. Check MOT80-006. Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists. perform the OF7 IOT PWB Diagnostics RAP.

В

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

ΥI

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.
- Transport gear pulley, PL 80.36 Item 12.

Apply pressure to the tray 2 transport roll, Figure 1.. The transport roll stalls.

N

Apply pressure to the tray 1 transport roll, Figure 1.. The transport roll stalls.

N

If the fault persists perform the 381-159-00 Late to HCF Exit Sensor from Tray 3 RAP.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

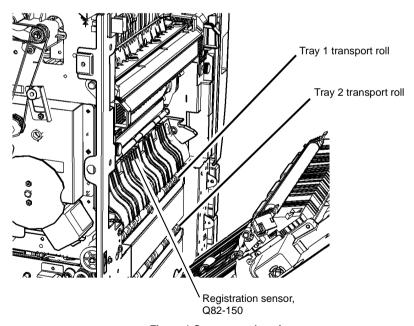
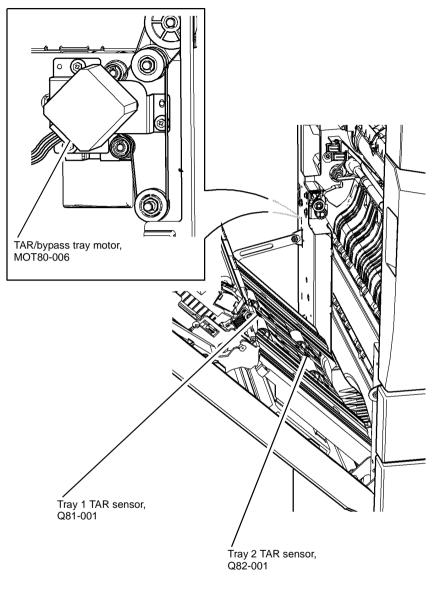
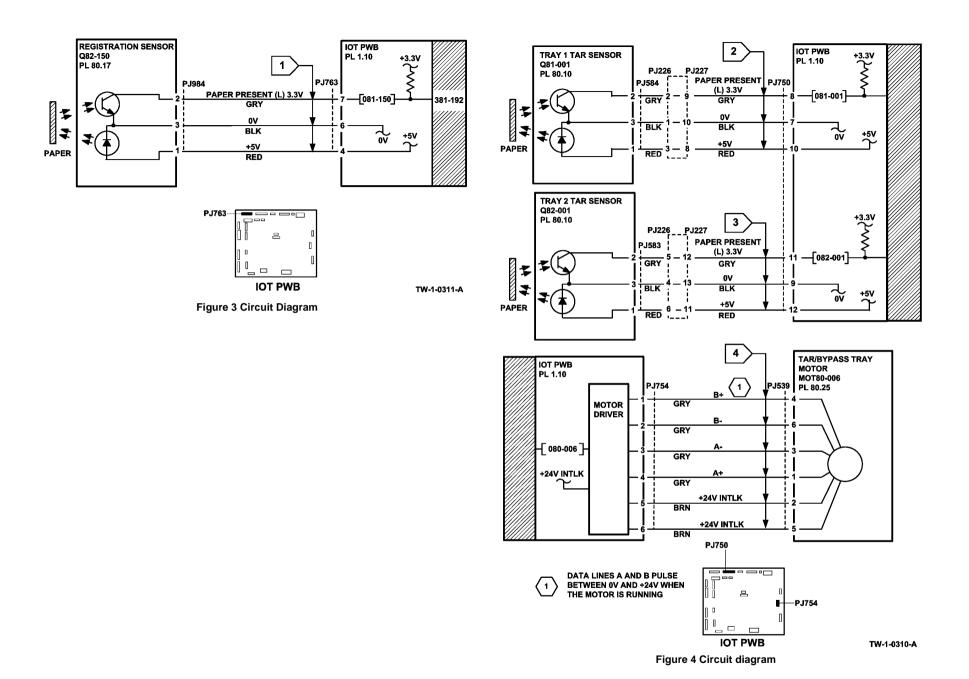


Figure 1 Component location



W-1-1266-A

Figure 2 Component location



381-193-00 Lead Edge Late to Registration Sensor from Tray 4 RAP

381-193-00 The lead edge of the paper was late to the registration sensor when feeding from tray 4.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If 2 sheets of paper are jammed at the registration rolls, perform the OF8 Multifeed RAP.
- Increasing the retard roll nip pressure will make the retard action more aggressive and may lessen the occurrence of multifeeds. Perform ADJ 80.3.
- If fault occurs from the bypass tray, perform the 381-155-00 Late to Registration Sensor from Bypass Tray RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- · Check for obstructions in the paper path.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check that the left door is latched correctly.
- Ensure that all connectors on the IOT PWB are correctly and securely seated.
- If the paper has excessive curl. refer to IQ5.
- Check for skew. Refer to IQ8.
- Clean the tray 4 paper feed assembly feed rolls.
- Clean the transport rolls between tray 4 and the registration area.
- Check the condition of the pressure blade, PL 80.17 Item 12. If the pressure blade is damaged or worn, install a new blade.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-150, registration sensor, Q82-150, Figure 1. Open the left door. Actuate Q82-150. **The display changes.**

N

Go to Flag 1. Check Q82-150.

Refer to:

- GP 11 How to check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001, Figure 2. Manually actuate Q81-001. **The display changes.**

N

Go to Flag 2. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 2. Manually actuate Q82-001. **The display changes.**

Y

Go to Flag 3. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

′ N

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Manually rotate the tray 1 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the drive pulley, PL 80.25 Item 3. The transport roll rotates in one direction only.

N

Install new components as necessary:

- Drive pulley. PL 80.25 Item 3.
- Tray 1 transport roll. PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006 TAR/Bypass tray motor MOT80-006. The motor runs.

' 1

Go to Flag 4. Check MOT80-006.

Refer to:

GP 10 How to Check a Motor.

В

- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

Ν

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.
- Transport gear pulley, PL 80.36 Item 12.

Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

N

Apply pressure to the tray 1 transport roll, Figure 1. The transport roll stalls.

ľ

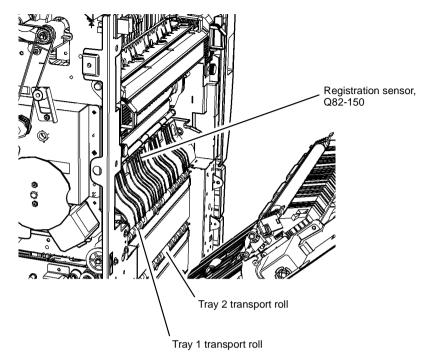
If the fault persists, perform the 381-199-00 Late to HCF Exit Sensor from Tray 4 RAP.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 1 transport roll, PL 80.25 Item 7.
- Tray 1 transport roll bearings, PL 80.25 Item 6.

Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.



W-1-1267-A

Figure 1 Component location

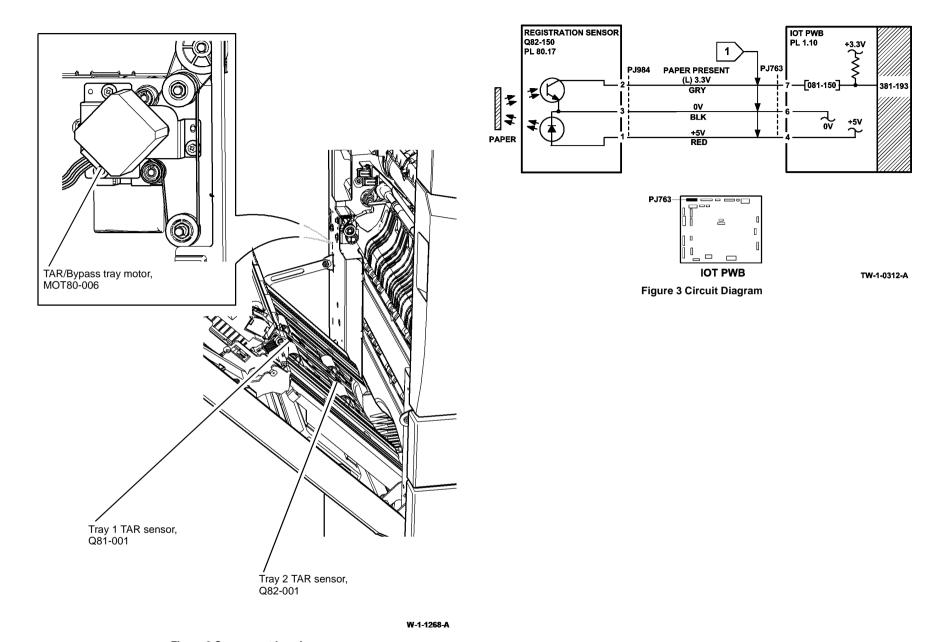
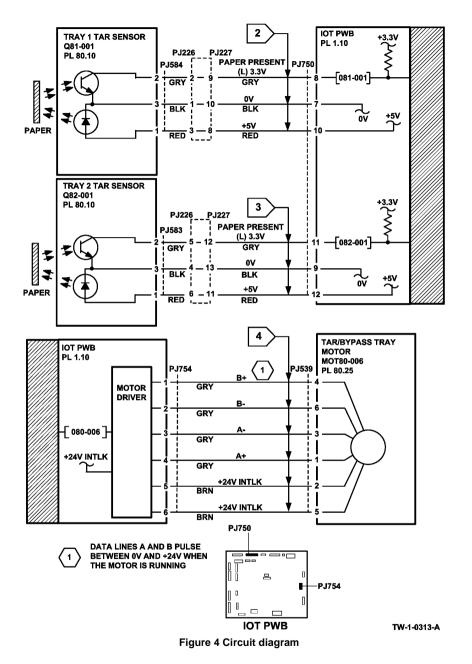


Figure 2 Component location



381-194-00 Lead Edge Late to TAR 1 Sensor from Tray 2 RAP

381-194-00 The lead edge of the paper failed to actuate the tray 1 TAR sensor within the correct time after feeding paper from trav 2.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in tray 2. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the trav.
- Check that the tray elevates to the feed position. Refer to 372-100-00, 372-217-00 Tray 2 Elevator Lift Failure RAP.
- Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.
- Check for damage to the chamfered edge on the left side of the tray. If necessary install a new paper trav. PL 70.10.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001, Figure 1. Open the left door. Manually actuate Q81-001. The display changes.

Go to Flag 1. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 1. Manually actuate Q82-001. The display changes.

Ν

2-501

Go to Flag 2. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

/ N

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Trav 2 transport roll. PL 80,25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006. The motor runs.

N

Go to Flag 3. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

Υ

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.

Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

/ N



To prevent damage to the feed mechanism, the paper tray must be pulled out before MOT71-010 is run in service mode.

Enter dC330 code 081-020, tray 2 elevator/feed motor MOT072-010. Pull out the tray. The feed rolls rotate.

N

Remove the tray 2 feed assembly from the machine. Manually rotate the feed roll shaft. The drive gears rotate.

Y N

Check the drive gears for damage. If necessary install new components, PL 80.26.

C D

В

Install the tray 2 feed assembly. Go to Flag 4. Check MOT072-010.

- GP 10 How to Check a Motor.
- P/J752. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 elevator/feed motor, PL 80.26 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the nudger roll, PL 80.26 Item 5. The nudger roll rotates.

Υ

Check the nudger roll drive belt and drive coupling for damage. If necessary install new components, PL 80.26.

Remove the paper tray. Manually activate the retard nip split mechanism. **The** retard roll moves against the feed roll.

Y N

Check the retard roll drive coupling and mechanism for damage. If necessary install new components, PL 80.26.

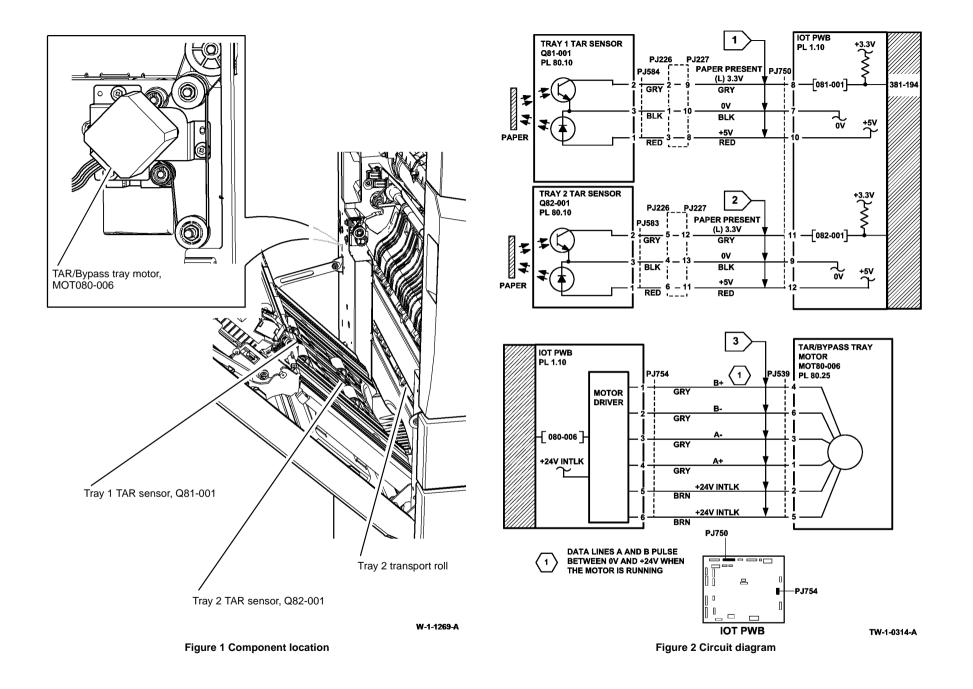
Perform the steps that follow:

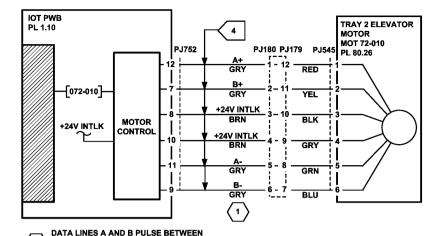
- Clean the feed roll using a cloth dampened with water.
- Check the roll assembly, PL 80.26 Item 3.
- Check the paper feed assembly, PL 80.26 Item 1.

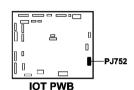
Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

C D







TW-1-0315-A

Figure 3 Circuit diagram

381-195-00 Lead Edge Late to TAR 1 Sensor from Tray 3 RAP

381-195-00 The lead edge of the paper failed to actuate the tray 1 TAR sensor within the correct time after feeding paper from tray 3.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 3. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001. Figure 1. Open the left door. Manually actuate Q81-001. The display changes.

Go to Flag 1. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 1. Manually actuate Q82-001. **The display changes.**

N

Go to Flag 2. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.

0V AND +24V WHEN THE MOTOR IS RUNNING.

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

N

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006 TAR/bypass tray motor MOT80-006, Figure 1. The motor runs.

Ν

Go to Flag 3. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

ΥI

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.

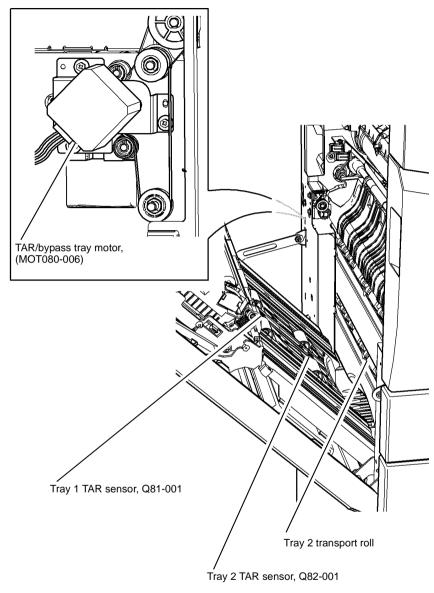
Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

/ 1

If the fault persists perform the 381-159-00 Late to HCF Exit Sensor from Tray 3 RAP.

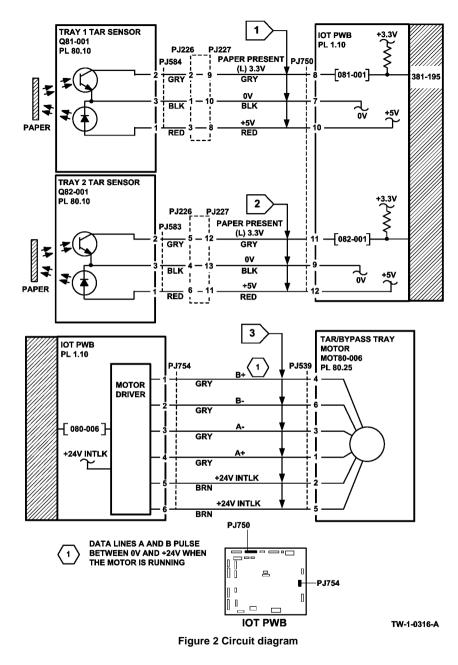
Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.



W-1-1270-A

Figure 1 Component location



381-196-00 Lead Edge Late to TAR 1 Sensor from Tray 4 RAP

381-196-00 The lead edge of the paper failed to actuate the tray 1 TAR sensor within the correct time after feeding paper from tray 4.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check tray 4 closes correctly, ADJ 80.5 Tray 4 Closing Alignment. If necessary perform the adjustment.
- Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-001, tray 1 TAR sensor, Q81-001. Figure 1. Open the left door. Manually actuate Q81-001. The display changes.

r

Go to Flag 1. Check Q81-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 1 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 1. Manually actuate Q82-001. **The display changes.**

Y N

Go to Flag 2. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new Tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

' N

Install new components as necessary:

- Pulley, PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006, Figure 1. The motor runs.

Ν

Go to Flag 3. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

ΥI

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.
- Transport gear pulley, PL 80.36 Item 12.

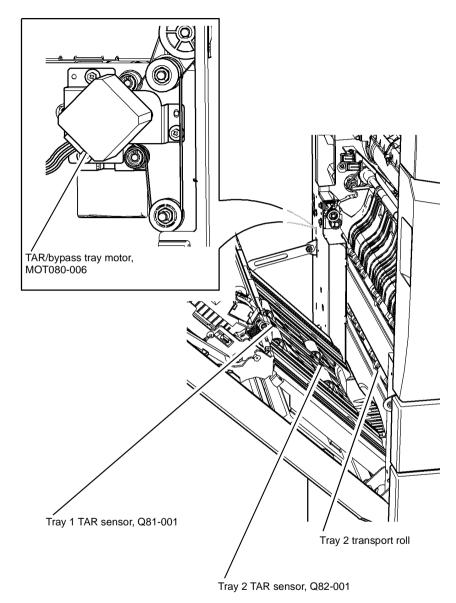
Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

N

If the fault persists, perform the 381-199-00 Late to HCF Exit Sensor from Tray 4 RAP.

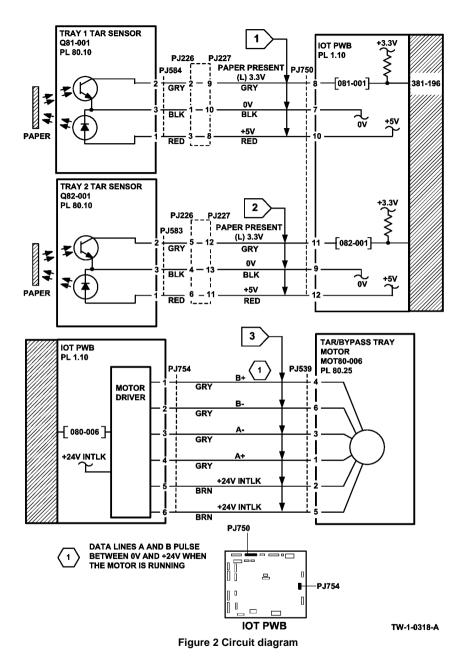
Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.



W-1-1271-A

Figure 1 Component location



381-197-00 Lead Edge Late to TAR 2 Sensor from Tray 3 RAP

381-197-00 The lead edge of the paper failed to actuate the tray 2 TAR sensor within the correct time after feeding paper from tray 3.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 3. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.
- Reducing the retard roll nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Perform ADJ 80.3.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 1. Open the left door. Manually actuate Q82-001. The display changes.

1

Go to Flag 1. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

N

Install new components as necessary:

- Pullev. PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor MOT80-006, Figure 1. The motor runs.

' N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.
- Transport gear pulley, PL 80.36 Item 12.

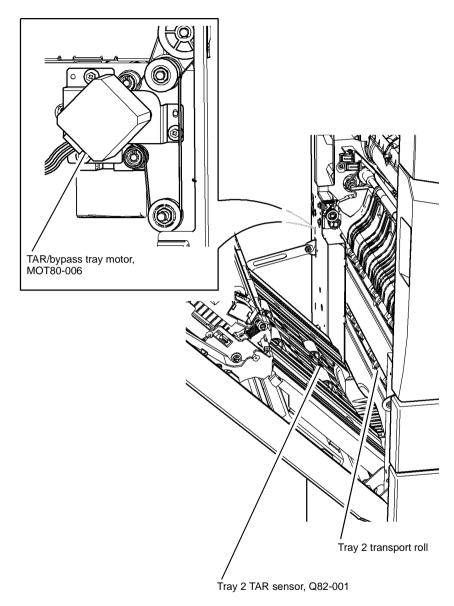
Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

' |

If the fault persists perform the 381-159-00 Late to HCF Exit Sensor from Tray 3 RAP.

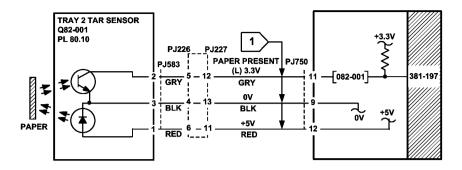
Install new components as necessary:

- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.



W-1-1271-A

Figure 1 Component location



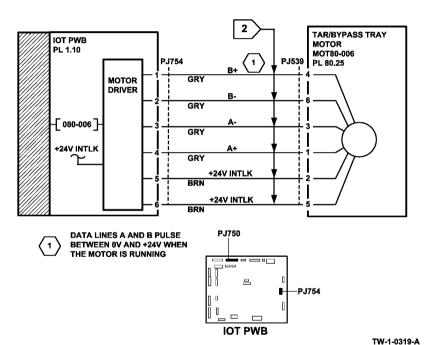


Figure 2 Circuit diagram

381-198-00 Lead Edge Late to TAR 2 Sensor from Tray 4 RAP

381-198-00 The lead edge of the paper failed to actuate the tray 2 TAR sensor within the correct time after feeding paper from tray 4.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- If the misfeed occurs between 15 and 20 paper feeds, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP.
- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Check that the paper guides are set correctly.
- Observe the feeder and check for obstructions.
- Turn and change the paper in the tray.
- Check tray 4 closes correctly, ADJ 80.5 Tray 4 Closing Alignment. If necessary perform the adjustment.
- · Check that the left door assembly is latched correctly.
- Check the left door interlock switch. Refer to 301-305-00 Left Door Open RAP.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 082-001, tray 2 TAR sensor, Q82-001, Figure 1. Manually actuate Q82-001. **The display changes.**

N

Go to Flag 1. Check Q82-001.

Refer to:

- GP 11 How to Check a Sensor.
- P/J750, IOT PWB
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new tray 2 TAR sensor, PL 80.10 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the rear cover, then manually rotate the tray 2 transport roll, Figure 1, PL 80.25 Item 7, whilst holding the pulley, PL 80.25 Item 4. The transport roll rotates in one direction only.

N

Install new components as necessary:

- Pullev. PL 80.25 Item 4.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.

Enter dC330 code 080-006, TAR/bypass tray motor, MOT80-006, Figure 1. The motor runs.

' N

Go to Flag 2. Check MOT80-006.

Refer to:

- GP 10 How to Check a Motor.
- P/J754, IOT PWB
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new TAR/bypass tray motor, PL 80.25 Item 5. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the transport rolls, PL 80.25 Item 7. The transport rolls rotate.

Check the transport roll drive belt, drive pulley and pulley, PL 80.25. Install new components as necessary:

- Transport roll drive belt, PL 80.25 Item 2.
- Pulley, PL 80.25 Item 4.
- Transport roll bearing, PL 80.25 Item 6.
- Transport roll, PL 80.25 Item 7.
- Transport gear pulley, PL 80.36 Item 12.

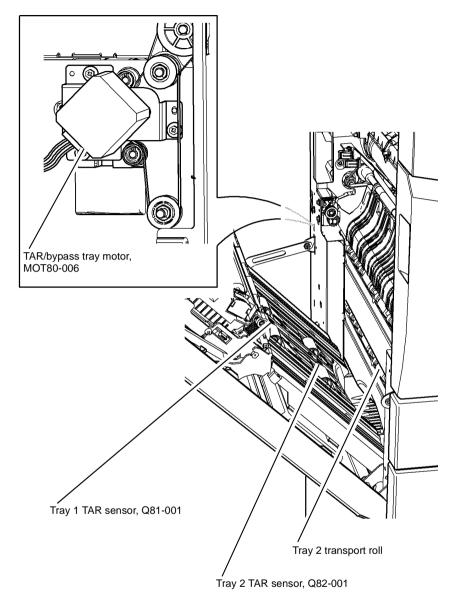
Apply pressure to the tray 2 transport roll, Figure 1. The transport roll stalls.

' |

If the fault persists perform the 381-199-00 Late to HCF Exit Sensor from Tray 4 RAP.

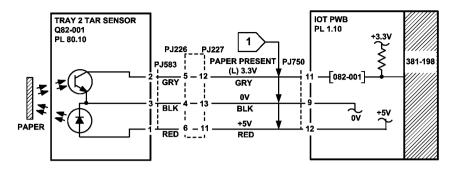
Install new components as necessary:

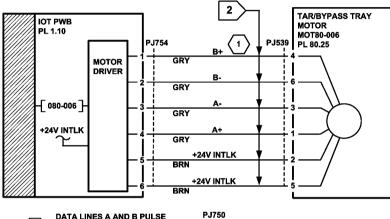
- Drive pulley, PL 80.25 Item 3.
- Tray 2 transport roll, PL 80.25 Item 7.
- Tray 2 transport roll bearings, PL 80.25 Item 6.



W-1-1273-A

Figure 1 Component location





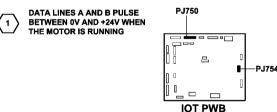


Figure 2 Circuit diagram

381-199-00 Lead Edge Late to HCF Exit Sensor from Tray 4 RAP

381-199-00 The lead edge of the paper was late to the HCF exit sensor when feeding from tray 4.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Motors will become hot during normal operation.

- Check the condition of the paper in tray 4. Refer to IQ1 and GP 20.
- Check for obstructions in tray 4 paper path, Figure 2.
- Check tray 4 closes correctly, ADJ 80.5 Tray 4 Closing Alignment. If necessary perform the adjustment.

Procedure

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Enter dC330 code 081-108, HCF exit sensor, Q81-108, Figure 1. Manually actuate Q81-108. **The display changes.**

'N

Go to Flag 1. Check Q81-108.

Refer to:

- GP 11 How to Check a Sensor.
- P/J755. IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new HCF exit sensor, PL 80.32 Item 3. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the lower rear cover, PL 70.26 Item 1, then manually rotate the transport gear pulley, Figure 1, PL 80.36 Item 12 and drive belt, Figure 1, PL 80.36 Item 6 in both directions. The manual rotation causes the HCF transport motor, Figure 1 to rotate in one direction only.

' N

Install a new transport gear pulley, PL 80.36 Item 12.

Enter dC330 code 081-045, HCF transport motor, MOT81-045, Figure 1. The motor runs.

N

Go to Flag 2. Check MOT81-045.

TW-1-0320-A

Refer to:

- GP 10 How to Check a Motor.
- P/J756, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

if necessary, install a new HCF transport motor, PL 80.36 Item 13. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the takeaway roll, PL 80.36 Item 2 and HCF transport roll, PL 80.33 Item 4. **The takeaway and HCF transport rolls rotate.**

•

Check the components that follow:

- Drive belt, PL 80.36 Item 6.
- Drive coupling, PL 80.36 Item 7.
- Takeaway roll assembly, PL 80.36 Item 2.
- Idler roll assembly, PL 80.36 Item 8.
- HCF transport roll, PL 80.33 Item 4.
 Install new components as necessary.

Apply pressure to the drive belt, Figure 1. **The drive belt stalls.**

′ N

Perform the 381-167-00 Lead Edge Late to Tray 4 Exit Sensor RAP.

Install a new transport gear pulley, PL 80.36 Item 12.

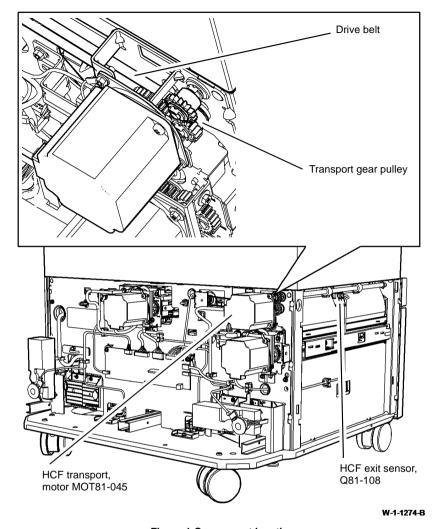


Figure 1 Component location

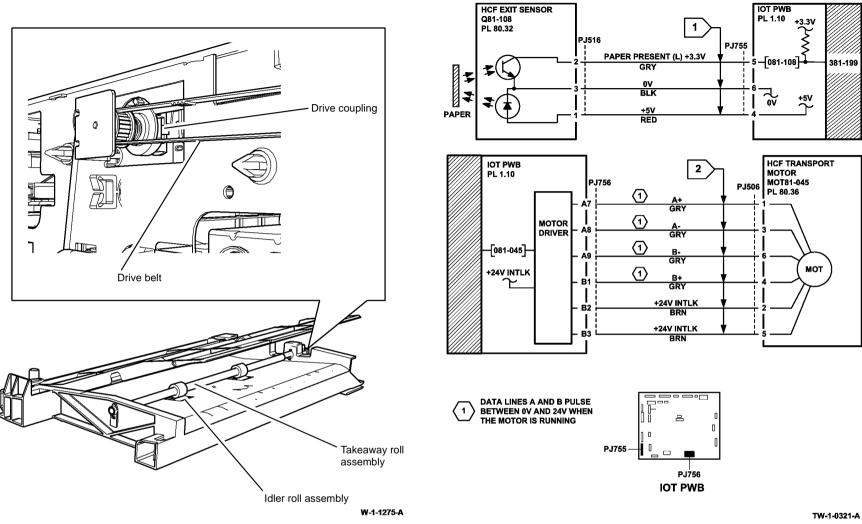


Figure 2 Component location

Figure 3 Circuit diagram

February 2016

2-514

381-200-00 Unexpected Sheet At Registration Sensor RAP

381-200-00 The IOT stray sheet detection mechanism detected an unexpected sheet of paper at the registration sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Enter the machine status mode and check for the active messages. Refer to OF4 Status Codes and Message RAP for the jam clearance procedure.
- · Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.
- Check for paper or paper fragments in the locality of the registration transfer assembly, PL 80.15 Item 1.
- Check for paper or paper fragments in the locality of the registration transport assembly, PL 80.17 Item 10.
- Check for paper in the machine paper path at all the sensor locations.

Procedure

If the Initial Actions failed to fix the fault, switch off, then switch on the machine, GP 14. If a fault code is then displayed, go to the appropriate RAP.

381-220-00 Motor Watchdog RAP

381-220-00 Paper path motor run timing fault.

Procedure

This fault code is documented for information only. No service actions are required to address this fault code.

381-221-00 SheetSMTransitionError RAP

381-221-00 Invalid paper path transition.

Procedure

There are no specific service actions to address this fault code. Look in the fault history for other paper path faults occurring at the same time as the 381-221-00 fault, then perform the appropriate RAP.

381-222-00 TAR Gear NVM Changed RAP

381-222-00 The IOT NVM valves are incorrectly set for the ratio of the TAR/Bypass tray motor drive gear.

Procedure

Ensure NVM locations 500-517, 500-518 and 500-519 are set to their default values, refer to dC131.

381A Paper Feed Retries RAP

Use this RAP when the relevant fault code RAP failed to identify the cause of the jam, and the machine exhibits the symptoms that follow:

- Intermittent paper jams at different points in the paper path from registration to IOT exit.
- Paper jams at any point in the paper path from registration to IOT exit, but only from one specific paper tray.

Initial Actions

Before performing this RAP, any relevant fault code RAP must have been performed.

Procedure

Enter dC131. Set the relevant NVM location to 0:

- 500- 102 Tray1_2FeedRetries, for tray 1 and 2.
- 500-146 HCFRetries, for tray 3 and 4.

Make copies from the relevant paper tray. Check for misfeeds from the tray (381-106-00, 381-126-00, 381-136-00, 381-146-00 fault codes). **Misfeeds occur.**

- 1

Enter dC131. Reset the relevant NVM location to its default value. Make copies from the relevant paper tray. **Paper jams occur.**

N

Perform SCP 5 Final Actions.

Perform the appropriate RAP for the fault code displayed.

Enter dC131. Reset the relevant NVM location to its default value. Perform the appropriate RAP dependent on the tray used:

- 381-106-00 Lead Edge late to TAR 1 Sensor from Tray 1 RAP.
- 381-126-00 Lead Edge Late to TAR 2 Sensor from Tray 2 RAP.
- 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP.
- 381-146-00 Lead Edge Late to Tray 4 Feed Sensor RAP.

383-155-00, 383-156-00 Duplex Sensor RAP

383-155-00 The lead edge was late to the duplex sensor.

383-156-00 The trail edge was late to the duplex sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the condition of the paper in all trays. Refer to IQ1 and GP 20.
- Check for paper in the inverter and duplex transport.
- Check for obstructions in the paper path.
- Check the diverter output guide is correctly installed, PL 10.10 Item 3.
- Check for obstructions on the diverter output guide, PL 10.10 Item 3.
- Check the left door assembly is fully closed.

NOTE: Paper jams in the jam clearance paper guide area of the inverter assembly (PL 10.11 Item 1) can be due to paper skew or excessive paper curl. Refer to IQ8 Skew RAP and IQ5 Print Damage RAP.

Procedure



Take care during this procedure. Motors will become hot during normal operation.

NOTE: The front door and left door must be closed, or their respective interlock switches must be cheated when checking +24V components.

Open the left door. Enter dC330 code 083-160, duplex sensor, Q83-160, Figure 1. Open the inner duplex door. Manually actuate Q83-160. **The display changes.**

N

Go to Flag 1. Check Q83-160.

Refer to:

- GP 11 How to Check a Sensor.
- P/J759, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex sensor, PL 80.10 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Remove the centre exit cover REP 28.1. Locate the inverter motor MOT10-030, PL 10.11 Item 9. Enter dC330 code 010-036 inverter motor high speed in reverse. **The motor runs and turns the inverter drive roll in reverse.**

N

Go to Flag 3. Check MOT10-030.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.

Install new components as necessary:

- Inverter motor, PL 10.11 Item 9.
- Drive belt, PL 10.11 Item 4.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 010-045, inverter gate solenoid, SOL10-045. Observe the solenoid and inverter gate. Figure 2. The solenoid energizes and the inverter gate is pulled down.

'

Go to Flag 7. Check SOL10-045.

Refer to:

- GP 12 How to Check a Solenoid or Clutch.
- P/J762. IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new inverter gate solenoid, PL 10.13 Item 8.

If the fault persists, perform OF7 IOT PWB Diagnostics RAP.

Remove the duplex motor cover, PL 80.22 Item 21. Locate the duplex motor, MOT83-060, Figure 1. Enter dC330 code 083-062, duplex motor fast speed. **The motor runs.**

1

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 083-060, duplex motor slow speed, MOT83-060, Figure 1. **The** motor runs.

Y

Go to Flag 2. Check MOT83-060.

Refer to:

- GP 10 How to Check a Motor.
- P/J762, IOT PWB.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new duplex motor assembly, PL 80.22 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Observe the duplex rolls, PL 80.22. The upper, mid and lower duplex rolls rotate.

N

Refer to GP 7. Check the components that follow:

- Upper duplex roll, PL 80.22 Item 14.
- Mid duplex rolls, PL 80.22 Item 15.
- Lower duplex roll. PL 80.22 Item 13.
- Drive belt (65T), PL 80.22 Item 2.
- Drive belt (89T), PL 80.22 Item 3.
- Drive belt (45T), PL 80.22 Item 4.

Install new components as necessary.

Check the duplex roll idlers, PL 80.10 Item 11, refer to GP 7. Manually rotate the idler rolls. The idler rolls rotate.

N

Install new components as necessary:

- Duplex roll idler, PL 80.10 Item 11.
- Idler spring, PL 80.10 Item 12.

Enter dC330 code 093-045, print cartridge motor, MOT93-045. Observe the photoreceptor. **The photoreceptor turns.**

N

Go to Flag 6. Check MOT93-045.

Refer to:

- GP 10. How to check a Motor.
- P/J761, IOT PWB.
- P/J656,LVPS.
- 301E +5V and +5VSB Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

Install new components as necessary:

- Main drive module, PL 40.15 Item 1.
- Print cartridge, PL 90.17 Item 9.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP and 301L LVPS RAP.

Enter dC330 code 082-150, registration sensor, Q82-150. Manually actuate Q82-150 with a strip of paper, Figure 1. **The display changes.**

' N

Go to Flag 4. Check Q82-150. Refer to:

- GP 11 How to Check a Sensor.
- P/J763, IOT PWB.
- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new registration sensor, PL 80.17 Item 7. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Enter dC330 code 080-040, registration motor, MOT80-040. Observe the registration roll, PL 80.17 Item 5. The registration roll turns.

N

Go to Flag 5. Check MOT80-040. Refer to:

- GP 10, How to Check a Motor.
- P/J762, IOT PWB.

If necessary, install a new registration motor, PL 40.15 Item 6. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Refer to GP 7 and OF10 Intermittent Fault RAP. Check the components that follow:

- Registration idler roll, PL 80.15 Item 4.
- Bias transfer roll, PL 80.15 Item 3.
- Registration roll, PL 80.17 Item 6.
- Registration drive pulley, PL 80.17 Item 3.
- Registration drive belt, PL 80.17 Item 4.
- Track (DTS), PL 90.10 Item 6, from the detack saw to the HVPS.

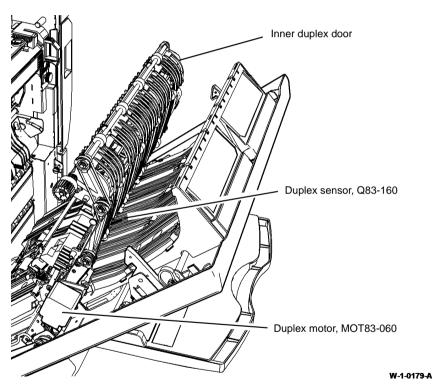
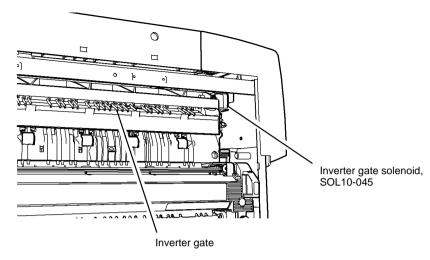


Figure 1 Component location



W-1-1427-A

Figure 2 Component location

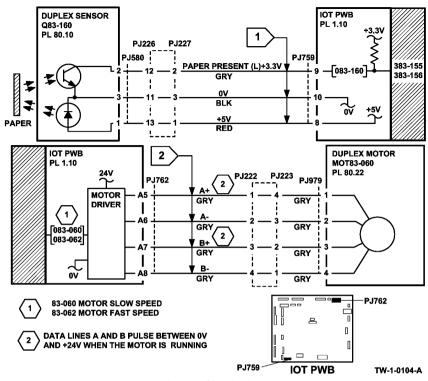


Figure 3 Circuit diagram

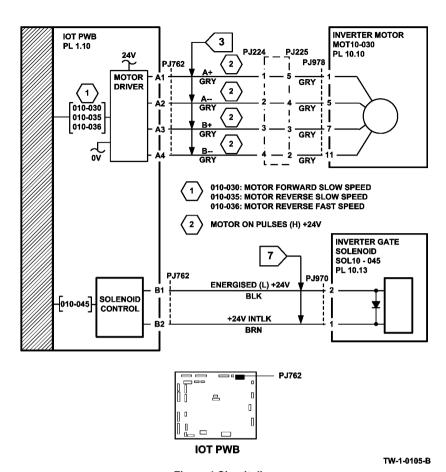
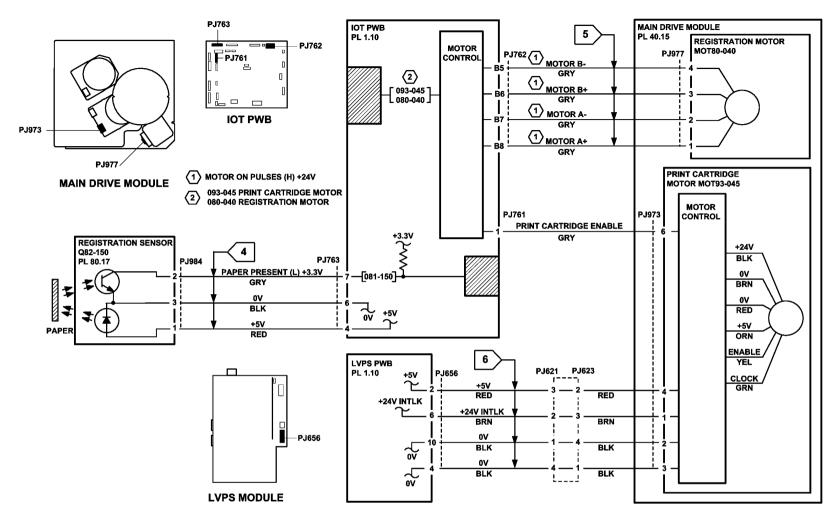


Figure 4 Circuit diagram



TW-1-0095-A

Figure 5 Circuit Diagram

383-157-00 Unexpected Sheet At Duplex Sensor RAP

383-157-00 The IOT stray sheet detection mechanism detected an unexpected sheet of paper at the duplex sensor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Enter the machine status mode and check for the active messages. Refer to OF4 Status Codes and Message RAP for the jam clearance procedure.
- Check for paper or paper fragments in the locality of the left door assembly, PL 80.10 Item
- Check for paper in the machine paper path at all the sensor locations.

Procedure

If the Initial Actions failed to fix the fault, switch off, then switch on the machine, GP 14. If a fault code is then displayed, perform the appropriate RAP.

391A HVPS RAP

To assist in identifying any suspected problems with the HVPS and the high voltage distribution

Procedure

NOTE: If directed here from any other procedure, always return to that procedure.



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

If fault code 341-302-00 is shown in fault history, remove the print cartridge, refer to the 301A Ground Distribution RAP figure 11 and check for pitting on the print cartridge drive shaft in the area shown. If pitting is found on the shaft, follow the cleaning instructions in the 301A Ground Distribution RAP. If necessary install a new print cartridge, PL 90.17 Item 9.

Go to Flag 1. +24V is available at P/J769 between pins 13 and 14.

Y N

Disconnect P/J769. +24V is available at J769 on the IOT PWB.

· I

Perform the 301G +24V Distribution RAP and the 301B 0V Distribution RAP.

Go to Flag 1. Check the wiring and connectors P/J769 and P/J830 between the IOT PWB and the HVPS. **The wiring and connectors are good.**

Y N

Repair the wiring or install new components as necessary.

Install a new HVPS, PL 1.10 Item 3.

+24V is available at P/J830 between pins 12 and 13.

1

Go to Flag 1. Check the wiring and connectors P/J769 and P/J830 between the IOT PWB and the HVPS. **The wiring and connectors are good.**

' I

Repair the wiring or install new components as necessary.

Install a new HVPS, PL 1.10 Item 3.

Ensure the machine is in standby mode. +2.4V to +2.6V is available between pins 9 and 10 on P/J830.

Y N

Install a new HVPS, PL 1.10 Item 3.

Check the high voltage circuits:

NOTE: For information regarding the cleaning of xerographic components, refer to ADJ 90.1 Xerographics Cleaning.

BCR.

Refer to PL 90.10. Check the items that follow:

- Track (BCR) on the HVPS tray assembly for continuity, short circuits and damage.
 Ensure the contact area at each end is clean and undamaged.
- The BCR contact on the HVPS is clean and undamaged, Figure 3.
- The bias charge roll contact on the print cartridge is clean and undamaged, Figure 1.

If necessary repair the high voltage track or install new components:

- HVPS tray assembly, PL 90.10 Item 1.
- HVPS. PL 1.10 Item 3.
- Print cartridge, PL 90.17 Item 9.
- DEV.

Refer to PL 90.10. Check the items that follow:

- Track (DEV) on the HVPS tray assembly for continuity, short circuits and damage.
 Ensure the contact area at each end is clean and undamaged.
- The DB contact on the HVPS is clean and undamaged, Figure 3.
- The developer bias contact on the print cartridge is clean and undamaged, Figure 1.

If necessary repair the high voltage track or install new components:

- HVPS tray assembly, PL 90.10 Item 1.
- HVPS. PL 1.10 Item 3.
- Print cartridge, PL 90.17 Item 9.
- BTR.

Refer to PL 90.10. Check the items that follow:

- Track (BTR) on the HVPS tray assembly for continuity, short circuits and damage.
 Ensure the contact area at each end is clean and undamaged.
- The BTR contact on the HVPS is clean and undamaged, Figure 3.
- The bias transfer contact on the registration transfer housing is clean and undamaged, Figure 1.
- The condition of the bias transfer roll and bearings, Figure 2.

If necessary repair the high voltage track or install new components:

- HVPS tray assembly, PL 90.10 Item 1.
- HVPS, PL 1.10 Item 3.
- Registration transfer housing, PL 80.15 Item 2.
- Bias transfer roll, PL 80.15 Item 3.
- Bias transfer roll bearings, PL 80.15 Item 9.
- DTS.

Refer to PL 90.10. Check the items that follow:

- Track (DTS) on the HVPS tray assembly for continuity, short circuits and damage.
 Ensure the contact area at each end is clean and undamaged.
- The DTS contact on the HVPS is clean and undamaged, Figure 3.
- The detack saw contact on the registration transfer housing is clean and undamaged, Figure 2.

If necessary repair the high voltage track or install new components:

- HVPS tray assembly, PL 90.10 Item 1.
- HVPS, PL 1.10 Item 3.
- Registration transfer housing, PL 80.15 Item 2.

If no fault was found, the HVPS is working correctly, return to the procedure that directed you here.

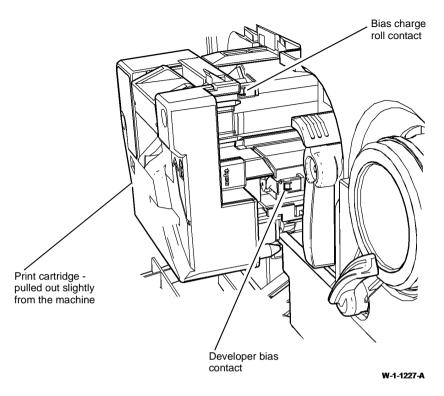


Figure 1 Component location

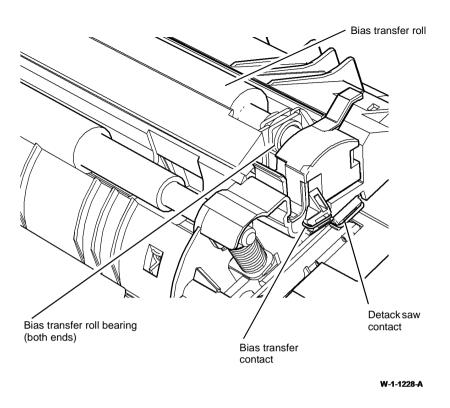
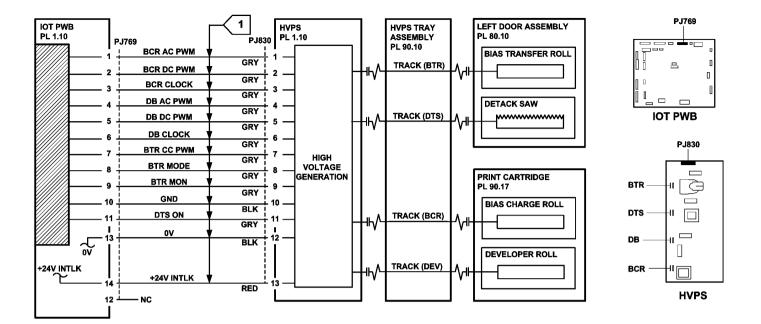


Figure 2 Component Location



TW-1-0300-A

Figure 3 Circuit diagram

391-365-00 Humidity Sensor Failure RAP

391-365-00 Average humidity reading was out of limits.

Also use this RAP if the humidity sensor is suspected of working incorrectly. A faulty relative humidity sensor can cause image quality problems.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Switch off, then switch on the machine, GP 14.

Procedure

Remove trays 1 and 2. Remove the tray 1 paper feed assembly, REP 80.1. Enter dC140 code 091-601, humidity sensor, Q91-601. Observe the displayed state of Q91-601. Use an air duster, PL 26.11 Item 1 directed onto the environmental sensors PWB to change the state of Q91-601, Figure 1. **The displayed state changed.**

Go to Flag 1. Check for +5V at P/J763 pin 16 on the IOT PWB. +5V is present.

′N Go to:

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 1. Disconnect PJ982. Check for +5V at PJ982, pin 12. +5V is present.

,

Check the wiring between P/J763 on the IOT PWB and PJ982. Repair the wiring as necessary, REP 1.2.

Install a new environmental sensors PWB, PL 80.17 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

If possible, check the humidity of the external environment using a hygrometer. Compare with a reading from Q91-601. Refer to the NOTE above Table 1. If a hygrometer is not available refer to Table 1 for the approximate expected humidity value. Compare the expected values with Q91-601. If the value of Q91-601 is very different from the expected reading install a new environmental sensors PWB, PL 80.17 Item 8.

If the fault persists, perform the OF7 IOT PWB Diagnostics RAP. If the fault is intermittent, perform the steps that follow:

- Check the wiring, GP 7. Repair as necessary, REP 1.2.
- Ensure that the P/Js are correctly and securely connected.

NOTE: The actual value is not critical. If the reading from Q91-601 is approximately within the range indicated in column 4, Table 1, the sensor is good.

Table 1 Relative humidity values

| External Environment | | Cold Machine Relative Humidity | Warm Machine Relative Humidity |
|-------------------------|-----|-----------------------------------|-----------------------------------|
| Wet | 80% | 80% | 40% to 50% |
| Ambient | 50% | 50% | 15% to 30% |
| Dry | 10% | 10% | 1% to 7% |

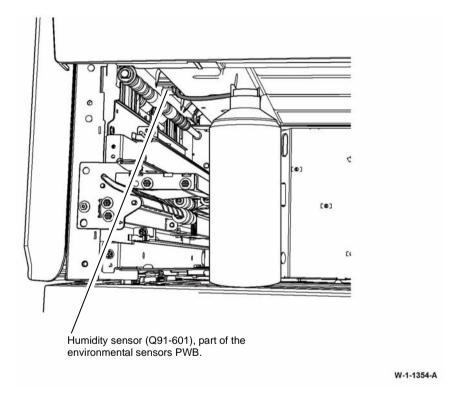


Figure 1 Component location

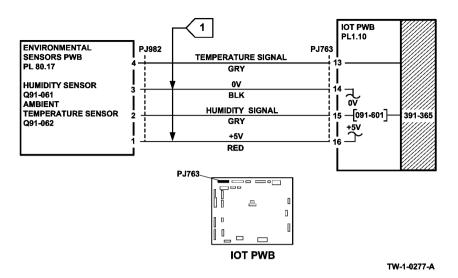


Figure 2 Circuit diagram

391-375-00 Ambient Temperature Sensor Failure RAP

391-375-00 The average ambient temperature was out of limits.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

• Switch off, then switch on the machine, GP 14.

Procedure

Remove trays 1 and 2. Remove the tray 1 paper feed assembly, REP 80.1. Enter dC140 code 091-602, ambient temperature sensor, Q91-602. Observe the displayed state of Q91-602. Use an air duster, PL 26.11 Item 1 directed onto the environmental sensors PWB to change the state of Q91-602, Figure 1. **The displayed state changed.**

N

Go to Flag 1. Check for +5V at P/J763 pin 16 on the IOT PWB. +5V is present.

N

Go to:

- 301E +5V Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 1. Disconnect PJ982. Check for +5V at PJ982, pin 12. +5V is present.

N

Check the wiring between P/J763 on the IOT PWB and PJ982. Repair the wiring as necessary, REP 1.2.

Install a new environmental sensors PWB, PL 80.17 Item 8. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

The ambient temperature sensor is working correctly. If the fault is intermittent, check the wiring, GP 7. Repair as necessary, REP 1.2.

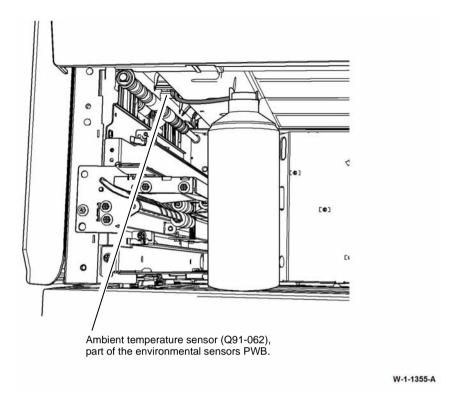


Figure 1 Component location

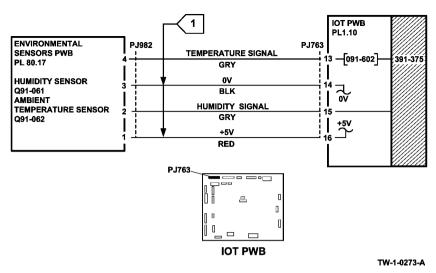


Figure 2 Circuit diagram

391-377-00 Print Cartridge Cooling Failure RAP

391-377-00 The averaged temperature sensor reading has exceeded the upper temperature threshold of the print cartridge.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the following:

- 1. Check the print cartridge cooling fan, refer to the OF6 Air Systems RAP.
- 2. Check the left door fans 1 and 2, refer to the OF6 Air Systems RAP.
- 3. Ensure dC131 NVM location 616-002 is set to default.
- Check the temperature sensor, go to the 391-375-00 Ambient Temperature Sensor Failure RAP.

392-399-00 Incompatible Print Cartridge RAP

392-399-00 The print cartridge CRUM failed the authorization check.

The authorization check is performed to ensure that the print cartridge installed in the system is compatible with the current machine configuration and the customer service plan.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

1. Install a new print cartridge, PL 90.17 Item 9.

392-400-00 Print Cartridge CRUM Communication Error RAP

392-400-00 The print cartridge CRUM communications failed.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Ensure that the print cartridge, PL 90.17 Item 9 is correctly installed.
- Ensure that the fuser module, PL 10.8 Item 1 is correctly installed.
- Switch off, then switch on the machine, GP 14.

Procedure

1. Perform the 310-400-00 Fuser CRUM Communication Fault RAP.

392A Print Cartridge Motor Failure RAP

Use this RAP to determine a failure of the print cartridge motor.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Refer to Figure 1. Enter dC330, code 093-045 print cartridge motor, MOT93-045. **The motor runs.**

N

Go to Flag 1. Check MOT93-045.

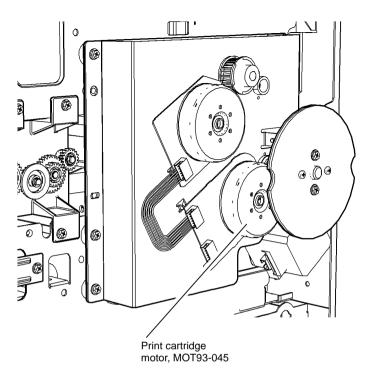
Refer to:

- GP 10. How to Check a Motor.
- P/J761, IOT PWB.
- P/J656, LVPS.
- 301E +5V Distribution RAP.
- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new main drive module, PL 40.15 Item 1.

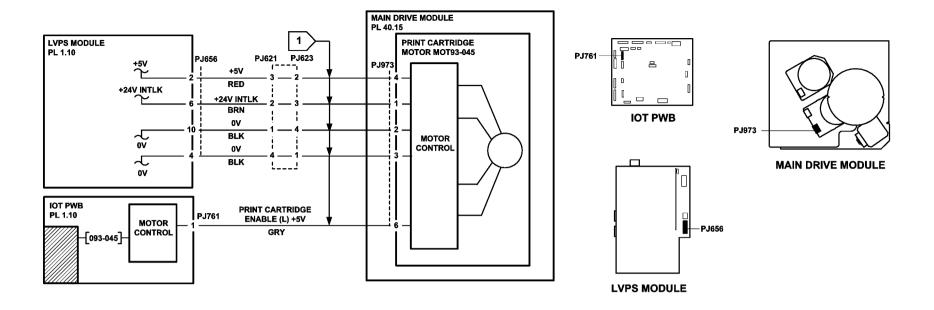
If the fault persists, perform the OF7 IOT PWB Diagnostics RAP and the 301L LVPS RAP.

The fault may be intermittent. Check all the wiring and connections between the LVPS module, IOT PWB and the main drive module for damage and loose connections.



W-1-1164-A

Figure 1 Component location



TW-1-0295-A

Figure 2 Circuit diagram

393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP

393-360-00 The toner concentration sensor registered a reading outside the expected range.

393-361-00 The toner concentration sensor was reading high. This indicates that the toner concentration (TC) was low.

393-362-00 The toner concentration sensor was reading low. This indicates that the toner concentration (TC) was high.

393-364-00 The toner concentration sensor registered a reading outside the range.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Ensure that the toner cartridge is not empty. If the toner cartridge is empty, install a new toner cartridge, PL 90.17 Item 2.
- Enter dC131 location 501-359 SystemLockoutFault. Set the value to 0.
- 393-361 Only. Remove the toner cartridge, PL 90.17 Item 2. Check that the foam seal on the rear of the toner cartridge is undamaged and in one piece. If the foam seal is damaged, install a new toner cartridge and toner dispense module, PL 90.17 Item 1.
- Switch off, then switch on the machine. GP 14.

Procedure

NOTE: At completion of this procedure, perform the NVM Check.

NOTE: The front door and left door interlock switches must be cheated when checking +24V components.

NOTE: If the machine fails to run while performing a check in this procedure, enter dC131 location 501-359 SystemLockoutFault. Set the value to 0.

Enter dC330 093-045, to run the print cartridge motor, MOT93-045. Go to Flag 1. Check the voltage at P/J766 pin 1. The voltage is outside the range of +1V to +2V.

Y N

The fault may be intermittent. Perform the steps that follow:

- Check the wiring between PJ510 and PJ766 on the IOT PWB. Refer to GP 7.
- Check the 0V distribution. Refer to the 301B 0V Distribution RAP.
- Ensure the print cartridge is correctly installed.
- If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

The voltage at P/J766 pin 1 is less than +1V.

N

The voltage is greater than +2V. Perform the TC Increase Adjustment. **The** increase was successful.

Ν

Go to Flag 2. +5V is present at P/J766, pin 2.

'N

Go to:

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 3. 0V is available at P/J766, pin 3.

1

Go to the 301B 0V Distribution RAP.

Enter dC330, code 093-045, print cartridge motor. Add the code 093-040, toner cartridge motor.

NOTE: The routine 93-040 times out after 5 seconds.

The toner cartridge rotates.

/ N

Remove the toner cartridge, PL 90.17 Item 2. Enter dC330, code 093-040, toner cartridge motor, MOT93-040. **The motor runs.**

Υ

Go to Flag 4. Check MOT93-040.

Refer to:

- GP 10 How to Check a Motor.
- P/J767, IOT PWB.
- 301G +24V Generation and Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new toner dispense module, PL 90.17 ltem 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the toner dispense drive gears, Figure 1. If necessary, install a new toner dispense module, PL 90.17 Item 1.

Remove the print cartridge, PL 90.17 Item 9, then place in a black bag. Remove the fuser, PL 10.10 Item 1. Put a sheet of paper beneath the toner dispense tube, Figure 2. Enter dC330, code 093-040, toner cartridge motor, MOT93-040. Manually open the shutter on the toner dispense tube. **Toner is dispensed.**

' N

Ensure the shutter on the toner dispense tube opens and closes correctly. If necessary, install a new toner dispense module, PL 90.17 Item 1.

Ensure the shutter on the print cartridge, Figure 3, opens and closes correctly. If necessary, install a new print cartridge, PL 90.17 Item 9.

The fault may be intermittent. Perform the steps that follow:

- Check the wiring between PJ510 and PJ766 on the IOT PWB. Refer to GP 7.
- Check the 0V distribution. Refer to the 301B 0V Distribution RAP.
- Ensure the print cartridge is correctly installed.
- If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

1

Go to:

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Go to Flag 3. 0V is available at P/J766, pin 3.

N

Go to the 301B 0V Distribution RAP.

Perform the TC Reduction Adjustment. The reduction was successful.

/ I

Install a new print cartridge, PL 90.17 Item 9.

The fault may be intermittent. Perform the steps that follow:

- Check the wiring between PJ510 and PL766 on the IOT PWB. Refer to GP 7.
- Check the 0V distribution. Refer to the 301B 0V Distribution RAP.
- Ensure the print cartridge is correctly installed.
- If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

TC Reduction Adjustment

Perform the steps that follow:

- 1. Enter dC131 location 501-230 TCHighCdEnable. Set the value 0.
- 2. Disconnect P/J512. Refer to Figure 1.
- Open the SPDH. Make 10 copies.
- 4. Go to Flag 1. Monitor the voltage output.
- 5. Make sets of 10 copies until the monitored voltage is greater than 0.9V.
- Check the image quality.
- 7. Reconnect P/J512.
- 8. Re-enter dC131 location 501-230 TCHighCdEnable. Set the value 1.

TC Increase Adjustment

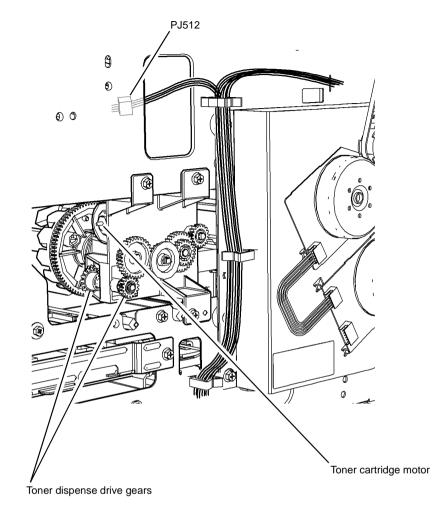
Perform the steps that follow:

- Enter dC330 code 093-045, print cartridge motor. Add the code 093-040, toner cartridge motor.
- 2. Go to Flag 1. Monitor the voltage output.
- 3. Run the routine until the monitored voltage is between 2.2V and 2.8V.
- 4. Check the image quality. Refer to IQS 1 Solid Area Density and Tone Reproduction.

NVM Check

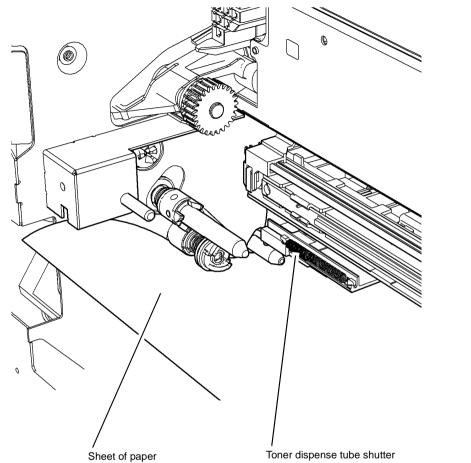
Enter dC131, ensure the NVM locations that follow are set as listed:

- 501-223 TcFailCyDnEn, set to 1.
- 501-229 TCLowCdEnable, set to 1.
- 501-230 TCHighCdEnable, set to 1.
- 501-359 SystemLockoutFault, set to 0.



W-1-1098-A

Figure 1 Toner dispense module



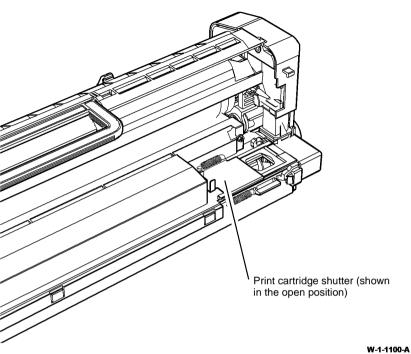
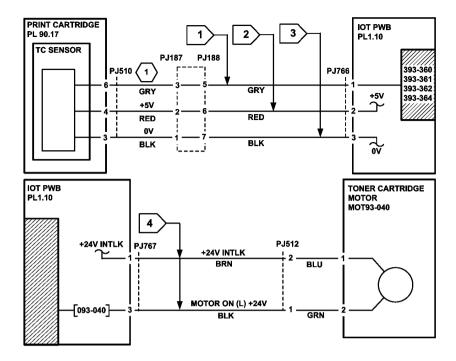


Figure 3 Print cartridge shutter

W-1-1099-A

Figure 2 Toner dispense tube







PJ767

TW-1-0279-A

Figure 4 Circuit diagram

393-365-00 High AC Recovery RAP

393-365-00 The machine remained in high AC mode, dispensing toner, for more than 90 seconds.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

• Switch off, then switch on the machine, GP 14.

Procedure

Perform the steps that follow:

- 1. Reload the software, GP 4.
- If the fault persists, perform the 393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP.

393-390-00 Toner Cartridge Empty RAP

393-390-00 Based on the toner concentration sensor reading, the toner cartridge is empty.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Ensure that the toner cartridge is not empty. If the toner cartridge is empty, install a new toner cartridge, PL 90.17 Item 2.
- When fault code 393-390-00 is called the toner cartridge CRUM will have received the
 end of life command, this renders the toner cartridge null so that it can no longer be used.
 Even if the current toner cartridge is not empty, ensure that a new toner cartridge is available before performing this procedure.
- A possible cause of this fault is arcing. Ensure the grounding of the xerographic components is good. Refer to 301A Ground Distribution RAP. Install a new toner cartridge, PL 90.17 Item 2.

Procedure

NOTE: The front door and left door interlock switches must be cheated when checking +24V components.

Cheat the front door interlock. Enter dC330 code 093-040, toner cartridge motor, MOT93-040. **The toner cartridge rotates.**

N

Remove the toner cartridge, PL 90.17 Item 2. Enter dC330, code 093-040, toner cartridge motor, MOT93-040. **The motor runs.**

Y N

Go to Flag 1. Check MOT93-040.

Refer to

- GP 10 How to Check a Motor.
- P/J767, IOT PWB.
- 301G +24V Generation and Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new toner dispense module, PL 90.17 Item 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP. Install a new toner cartridge, PL 90.17 Item 2.

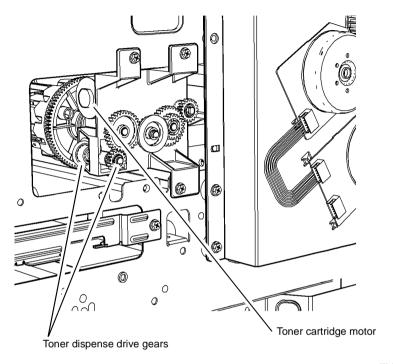
Check the toner dispense drive gears, Figure 1. If necessary, install a new toner dispense module, PL 90.17 Item 1. Install a new toner cartridge, PL 90.17 Item 2.

Remove the print cartridge, PL 90.17 Item 9, then place in a black bag. Remove the fuser, PL 10.8 Item 1. Put a sheet of paper beneath the toner dispense tube, Figure 2. Enter dC330, code 093-040, toner cartridge motor, MOT93-040. Manually open the shutter on the toner dispense tube. **Toner is dispensed.**

N

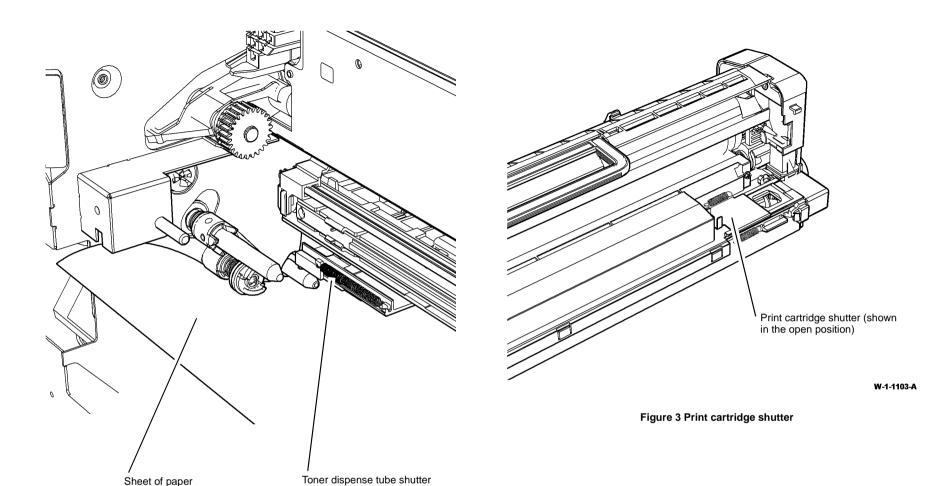
Ensure the shutter on the toner dispense tube opens and closes correctly. If necessary, install a new toner dispense module, PL 90.17 Item 1. Install a new toner cartridge, PL 90.17 Item 2.

Ensure the shutter on the print cartridge, Figure 3, opens and closes correctly. If necessary, install a new print cartridge, PL 90.17 Item 9. Install a new toner cartridge, PL 90.17 Item 2.



W-1-1101-A

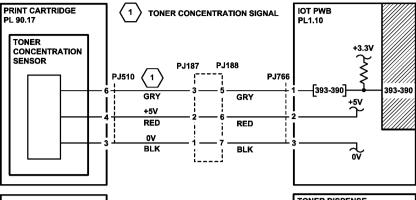
Figure 1 Toner dispense module

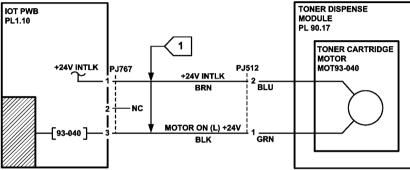


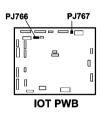
W-1-1102-A

Figure 2 Toner dispense tube

Sheet of paper







TW-1-0276-A

Figure 4 Circuit diagram

393-399-00 Incompatible Toner Cartridge RAP

393-399-00 The toner cartridge CRUM failed the authorization check.

The authorization check is performed to ensure that the toner cartridge installed in the system is compatible with the current machine configuration and the customer service plan.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



CAUTION

The first time the toner cartridge is replaced, installing a sold toner cartridge into a metered service plan machine will convert the machine to a sold service plan. But this may not be noticed until the sold toner cartridge has failed and is renewed with a metered toner cartridge.

Perform the steps that follow:

- 1. Check that the toner cartridge matches the customer service plan. Refer to How to Check the Service Plan.
- If necessary, install a new toner cartridge, PL 90.17 Item 2 that matches the machine configuration and the customer service plan. Refer to GP 39 Consumables Compatibility Information.

How to Check the Service Plan

- Enter Customer Administration Tools, GP 24.
- Select Service Settings.
- 3. Scroll down and select Service Plan.
- The current service plan is displayed. Refer to Table 1 for details. To change the service plan, refer to How to Change the Service Plan.

NOTE: All new machines are configured to 'metered'. A customer with a sold plan should only have a new sold toner cartridge.

Table 1 Service plan

| Service Plan Type | Service Plan Description | |
|-------------------|---|--|
| Sold | Xerox service agreement does not include the cost of the toner cartridge. | |
| Metered | Xerox service agreement does include the cost of the toner cartridge. | |
| Other | System will accept non-Xerox and OEM supplied toner cartridge with no CRUM. | |

NOTE: There is no communication with the CRUM when the system is configured to 'other' (3rd party).

How to Change the Service Plan

- 1. Contact the market region technical specialist for a service plan authorization number.
- Select the Service Plan Authorization Number entry field on the UI screen. Enter the authorization number.
- 3. Select Change Service Plan.
- Select Close.
- Exit Customer Administration Tools, GP 24.
- 6. Check that the service plan is correct.

393-401-00 Toner Cartridge Missing RAP

393-401-00 The toner cartridge PWB failed to detect the RF CRUM within 2 revolutions of the toner bottle.

NOTE: The toner cartridge PWB is not present on W/TAG 013 machines.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Remove the toner cartridge, PL 90.17 Item 2. The CRUM is attached to the toner cartridge.

Υ

Install a new toner cartridge, PL 90.17 Item 2 that is compatible with the current machine configuration and the customer service plan.

Enter dC330, code 093-045, print cartridge motor. Add the code 093-040, toner cartridge motor.

NOTE: The routine 93-040 times out after 5 seconds.

The toner cartridge rotates.

' N

Remove the toner cartridge, PL 90.17 Item 2. Enter dC330, code 093-040, toner cartridge motor, MOT93-040. **The motor runs.**

Y N

Go to Flag 3. Check MOT93-040.

Refer to:

- GP 10 How to Check a Motor.
- P/J766, IOT PWB.
- 301G +24V Generation and Distribution RAP.
- 301B 0V Distribution RAP.

If necessary, install a new toner dispense module, PL 90.17 Item 1. If the fault persists, perform the OF7 IOT PWB Diagnostics RAP.

Check the toner dispense drive gears. If necessary, install a new toner dispense module, $PL\ 90.17\ Item\ 1.$

Go to Flag 1. Check for +5V at P/J782 pins 1 and 6 on the IOT PWB. +5V is present.

N

Go to:

- 301E +5V and +5VSB Distribution RAP.
- 301B 0V Distribution RAP.

Remove the relevant component:

- Horizontal transport assembly, REP 10.6.
- Centre output tray, REP 28.1.

Remove the toner cartridge PWB cover, PL 90.17 Item 11. Go to Flag 2. Check the wiring between the toner cartridge PWB and P/J782 on the IOT PWB. The wiring is good.

1

Repair the wiring, GP 7 or install a new toner cartridge PWB, PL 90.17 Item 12.

Install a new toner cartridge, PL 90.17 Item 2 that is compatible with the current machine configuration and the customer service plan. If the fault persists, perform the procedures that follow:

- OF7 IOT PWB Diagnostics RAP.
- 391A HVPS RAP.

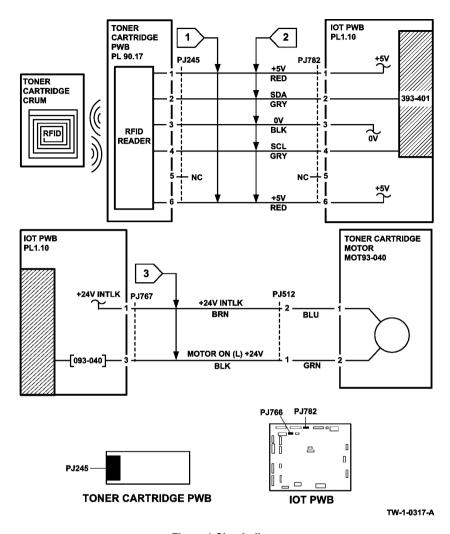


Figure 1 Circuit diagram

393-974-00, 393-987-00 Unknown Toner Cartridge RAP

393-974-00 Null string read on new toner cartridge.

393-978-00 Non-Xerox string read on new toner cartridge.

Procedure

The fault is code shown for information only. No service action is necessary.

395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP

395-000-00 Failed to upgrade the DC (SBC) boot code.

395-001-00 Failed to upgrade the DC (SBC) software upgrade code.

395-002-00 Failed to upgrade the DC (SBC) application

395-008-00 Failed to upgrade the DC (SBC) operating system.

395-009-00 Failed to upgrade the DC (SBC) CIPS.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Reload the software using the forced AltBoot procedure, GP 4.
- 2. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. Reload the software, GP 4.

395-011-00 UI Software Upgrade Errors RAP

395-011-00 Failed to upgrade the UI application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 4. Check the wiring between PJ864 on the SBC PWB and PJ130 on the UI control PWB. Repair as necessary, REP 1.2. If necessary, install a new SBC PWB to UI control PWB power/comms harness, PL 2.10 Item 3.
- 2. Reload the software using the forced AltBoot procedure, GP 4.
- If the fault persists, install a new UI control PWB, PL 2.10 Item 6. Reload the software, GP
 4.

395-038-00 Fax Software Upgrade Errors RAP

395-038-00 Software upgrade synchronization error.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Remove, then re-install the fax module, PL 20.05 Item 1.
- Refer to WD 4. Check the ribbon cable between PJ860 on the SBC PWB and PJ1 on the Fax connector PWB. If necessary, install a new SBC PWB to fax connector PWB ribbon cable, PL 3.22 Item 14.
- 3. Reload the software using the forced AltBoot procedure, GP 4.
- 4. If the fault persists, install a new fax PWB, PL 20.05 Item 7. Reload the software, GP 4.

395-040-00 to 395-042-00 IOT Software Upgrade Errors RAP

395-040-00 Failed to upgrade the IOT bootstrap code.

395-041-00 Failed to upgrade the IOT bootloader code.

395-042-00 Failed to upgrade the IOT application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 10. Check the wiring between PJ866 on the SBC PWB and PJ768 on the IOT PWB. Repair as necessary, REP 1.2.
- 2. Reload the software using the forced AltBoot procedure, GP 4.
- 3. If the fault persists, install a new IOT PWB, PL 1.10 Item 2. Reload the software, GP 4.

395-060-00 2K LCSS Software Upgrade Error RAP

395-060-00 Failed to upgrade the 2K LCSS application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 10. Check the wiring between PJ866 on the SBC PWB and PJ768 on the IOT PWB. Repair as necessary, REP 1.2.
- Refer to WD 10 and WD 19. Check the wiring between PJ772 on the IOT PWB and PJ301 on the 2K LCSS PWB. Repair as necessary, REP 1.2.
- Make sure the 2K LCSS PWB DIP switches are set correctly. Refer to the 312F-110 2K LCSS DIP Switch Settings RAP.
- 4. Reload the software using the forced AltBoot procedure, GP 4.
- 5. If the fault persists, install a new 2K LCSS, PL 12.75 Item 1. Reload the software, GP 4.

395-140-00 SBC Software Upgrade Errors 2 RAP

395-140-00 Failed to upgrade the DC (SBC) NC application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

1. Go to the 395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP.

395-155-00 to 395-169-00 Scanner Software Upgrade Errors 1 RAP

395-155-00 Failed to upgrade the IIT CCD module.

395-161-00 Failed to upgrade the IIT Taurus 2 bootcode.

395-162-00 Failed to upgrade the IIT Taurus 2 application.

395-163-00 Failed to upgrade the IIT Taurus 1 FPGA.

395-164-00 Failed to upgrade the IIT Taurus 2 FPGA.

395-169-00 Failed to upgrade the IIT Taurus 1 bootcode.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 3. Check the wiring between PJ860 on the SBC PWB and PJ410 on the Scanner PWB. Repair as necessary, REP 1.2. If necessary, install a new SBC PWB to scanner PWB power/comms harness. PL 60.20 Item 5.
- 2. Reload the software using the forced AltBoot procedure, GP 4.
- If the fault persists, install a new scanner PWB, PL 60.20 Item 4. Reload the software, GP

395-214-00 to 395-217-00 SBC Software Upgrade Errors 3 RAP

395-214-00 Failed to upgrade the DC (SBC) ACD.

395-216-00 Failed to upgrade the DC (SBC) glue application.

395-217-00 Failed to upgrade the DC (SBC) PWS proxy.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

1. Go to the 395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP.

395-222-00 LVF Software Upgrade Error RAP

395-222-00 Failed to upgrade the LVF application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 10. Check the wiring between PJ866 on the SBC PWB and PJ768 on the IOT PWB. Repair as necessary, REP 1.2.
- Refer to WD 10 and WD 23. Check the wiring between PJ772 on the IOT PWB and PJ301 on the LVF PWB. Repair as necessary, REP 1.2.
- Make sure the LVF PWB DIP switches are set correctly. Refer to the 312F-150 LVF PWB and LVF BM DIP Switch Settings RAP.
- 4. Reload the software using the forced AltBoot procedure, GP 4.
- 5. If the fault persists, install a new LVF PWB, PL 12.425 Item 8. Reload the software, GP 4.

395-224-00 LVF BM Software Upgrade Errors RAP

395-224-00 Failed to upgrade the LVF BM application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 10. Check the wiring between PJ866 on the SBC PWB and PJ768 on the IOT PWB. Repair as necessary, REP 1.2.
- Refer to WD 10 and WD 23. Check the wiring between PJ772 on the IOT PWB and PJ301 on the LVF PWB. Repair as necessary, REP 1.2.
- Refer to WD 26. Check the wiring between PJ401 on the LVF PWB and PJ101 on the LVF BM PWB. Repair as necessary, REP 1.2.
- Make sure the LVF BM PWB DIP switches are set correctly. Refer to the 312F-150 LVF PWB and LVF BM DIP Switch Settings RAP.
- 5. Reload the software using the forced AltBoot procedure, GP 4.
- If the fault persists, install a new LVF BM PWB, PL 12.425 Item 1. Reload the software, GP 4.

395-227-00 Scanner Software Upgrade Errors 2 RAP

395-227-00 Failed to upgrade the IIT PMC application.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

1. Go to the 395-155-00 to 395-169-00 Scanner Software Upgrade Errors 1 RAP.

395-228-00, 395-229-00 SPDH Software Upgrade Errors RAP

395-228-00 Failed to upgrade the SPDH application.

395-229-00 Failed to upgrade the SPDH bootcode.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Refer to WD 3. Check the wiring between PJ860 on the SBC PWB and PJ410 on the Scanner PWB. Repair as necessary, REP 1.2. If necessary, install a new SBC PWB to scanner PWB power/comms harness, PL 60.20 Item 5.
- 2. Refer to WD 13. Check the wiring between PJ417 on the Scanner PWB and PJ460 on the SPDH PWB. Repair as necessary, REP 1.2.
- B. Reload the software using the forced AltBoot procedure, GP 4.
- 4. If the fault persists, install a new SPDH PWB, PL 5.10 Item 5. Reload the software, GP 4.

395-255-00 SBC Software Upgrade Errors 4 RAP

395-255-00 Failed to upgrade the DC (SBC) SCD.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

1. Go to the 395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP.

395-300-00 Software Upgrade Product Error RAP

395-300-00 Software upgrade detected an incompatible DLM file.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

The software upgrade DLM file is not compatible with the machine. Source the correct DLM file.

395-301-00, 395-302-00 Software Upgrade Hardware Error RAP

395-301-00 Software upgrade detected incompatible hardware.

395-302-00 Software upgrade detected incompatible firmware.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

The machine has attempted to upgrade incompatible hardware or firmware. Check all recently installed components. Install the correct components.

395-303-00 Software DLM Downgrade Error RAP

395-303-00 Software DLM file downgrade error. An attempt was made to load a lower level of software.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Reload the software using the forced AltBoot procedure, GP 4.

395-304-00 Software DLM Sidegrade Error RAP

395-304-00 Software DLM file sidegrade error. An attempt was made to load the same level of software.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Reload the software using the forced AltBoot procedure, GP 4.

395-305-00 Software Upgrade Synchronization Error RAP

395-305-00 Software upgrade synchronization error.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

When an upgrade fails, the SCD module version that failed to upgrade is printed on the software upgrade report. Refer to the report and Table 1. Perform the relevant procedure.

Table 1 Software module numbers

| Module | SCD Module Versions | Procedure |
|-------------|---|--|
| SBC PWB | 0, 1, 2, 8, 9, 11, 140, 214, 216, 217, 226 | 395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP |
| UI PWB | 19 | 395-011-00 UI Software Upgrade Errors RAP |
| SPDH PWB | 228, 229 | 395-228-00, 395-229-00 SPDH Software Upgrade Errors RAP |
| Fax | 38 | 395-038-00 Fax Software Upgrade Errors RAP |
| IOT PWB | 40, 41, 42 | 395-040-00 to 395-042-00 IOT Software Upgrade Errors RAP |
| 2K LCSS PWB | 60 | 395-060-00 2K LCSS Software Upgrade Errors RAP |
| Scanner PWB | 155, 163, 164, 169, 227 | 395-155-00 to 395-169-00 Scanner Software Upgrade Errors 1 RAP |
| LVF PWB | 222 | 395-222-00 LVF Software Upgrade Errors RAP |
| LVF BM PWB | 224 | 395-224-00 LVF BM Software Upgrade Errors RAP |

OF1 Unusual Noise RAP

Use this RAP to isolate unusual noises in the machine.

NOTE: Due to the intermittent nature of unusual noises, this RAP can only give guidance on how to isolate noises. This RAP will not find all possible causes. When machines become old and worn, unusual noises may arise that are not covered in this RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Ask the customer if there are any specific machine functions that are noisy.
- Ask the customer to demonstrate the function of the machine that generates the unusual noise.
- Check the fault logs.
- 4. Switch off the machine, GP 14. Wait for 2 minutes. Switch on the machine. Allow the machine to perform a normal initialization and warm-up.
- Run the machine in all modes. Also use service mode to run individual components. Go to the relevant subsection:
 - Main Drives and Paper Transport.
 - SPDH.
 - Tray 1 and 2 Assembly.
 - Tray 3.
 - Tray 4.
 - Xerographics.
 - Fuser Module.
 - Centre Output Tray Offset Mechanism.
 - Horizontal Transport.
 - 2K LCSS.
 - LVF BM.
 - Scanner.

Main Drives and Paper Transport

- Enter dC330 code 010-020, fuser/exit motor, part of the main drive unit, PL 40.15 Item 5.
 The components that follow will run:
 - Exit roll, PL 10.11 Item 21 (centre output tray), or PL 10.12 Item 16 (horizontal transport).
 - Post fuser roll, PL 80.22 Item 12.
 - Fuser module, PL 10.8 Item 1. Remove the fuser module to eliminate the noise caused by the fuser. If the source of the noise is the fuser, perform the Fuser Module checkout.
- If the machine is fitted with a centre output tray, enter dC330 code 010-500, offset motor, to run the offset motor, PL 10.11 Item 14. The offset shuttle, PL 10.11 Item 22 will move.

- Enter dC330 code 010-030, inverter motor, to run the inverter motor, PL 10.11 Item 9. The
 drive roll, PL 10.11 Item 12 will rotate.
- Enter dC330 code 010-045, inverter gate solenoid. The solenoid energizes and moves the inverter gate, part of the inverter assembly, PL 10.10 Item 1.
- Enter dC330 code 010-040, horizontal transport motor, to run the horizontal transport motor, PL 10.16 Item 1. The transport rolls, PL 10.16 Item 7 will rotate.
- Enter dC330 code 080-040, registration motor, to run the registration motor, PL 40.15
 Item 6. The registration roll. PL 80.17 Item 5 will rotate.
- Enter dC330 code 080-015, left door fans, to run the left door fan 1 and left door fan 2, PL 80.10 Item 9.
- Enter dC330 code 080-025, TAR/bypass tray motor (bypass), to run the TAR/bypass tray motor in reverse. The bypass tray feed roll and retard roll, PL 70.35 will rotate.
- Enter dC330 code 080-006, TAR/bypass tray motor (TAR Rolls) Process Speed, to run the TAR/bypass tray motor forward at process speed. The tray 1 and 2 transport rolls, PL 80.25 Item 7 will rotate.
- Enter dC330 code 083-060, duplex motor, to run the duplex motor, PL 80.22 Item 8. The components that follow will rotate:
 - Upper duplex roll, PL 80.22 Item 14.
 - Mid duplex rolls, PL 80.22 Item 15.
 - Lower duplex roll, PL 80.22 Item 13.

Possible causes and potential solutions are:

Symptom: squeaks.

Possible causes:

- Contamination of the drive shafts and the bearings.
- Bearings in cooling fans.
- Incorrectly adjusted or worn drive belts.
- Incorrectly aligned or damaged parts.

Potential solutions:

- Clean the components.
- Remove, clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication.
- Adjust the components if necessary.
- Check for parts that are damaged or out of position.
- Install new components as necessary.

SPDH

Run the components that follow:

- Enter dC330 code 005-020, DH feed motor. Add the code 005-025, DH feed clutch, to rotate the feed roll and nudger roll, PL 5.20 and the retard roll, PL 5.25 Item 3.
- Enter dC330 code 005-020, DH feed motor. Add the code 005-425, DH takeaway clutch, to rotate the takeaway roll assembly, PL 5.17 Item 1.
- Enter dC330 code 005-030, DH read motor, to run the exit, mid scan and pre scan roll assemblies, PL 5.17.
- Enter dC330 code 005-390, DH tray elevator motor, to run the input tray lift mechanism, PL 5.30.

Possible causes and potential solutions are:

Symptom: squeaks.

Possible causes:

- Contamination of the drive shafts and bearings.
- Incorrectly adjusted or worn drive belts.
- Incorrectly aligned or damaged parts.

Potential solutions:

- Remove, clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication.
- Check for parts that are damaged or out of position.
- Adjust the components if necessary.
- Install new components as necessary.

Tray 1 and 2 Assembly

Remove tray 1 and tray 2. Run the components that follow:

- Enter dC330 code 081-010, tray 1 feed motor, to run the tray 1 elevate/feed motor, PL 80.26 Item 6.
- Enter dC330 code 081-020, tray 2 feed motor, to run the tray 2 elevate/feed motor, PL 80.26 Item 6.
- · Open the left door.

Enter dC330 code 080-006, TAR/bypass tray motor (TAR rolls), to run the tray 1 and tray 2 transport rolls, PL 80.25 Item 7.

Possible causes and potential solutions are:

Symptom: squeaks.

Possible causes:

- Contamination of the drive shafts and bearings.
- Incorrectly adjusted or worn drive belts.
- Incorrectly aligned or damaged parts.

Potential solutions:

- Remove, clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication.
- Check for parts that are damaged or out of position.
- Adjust the components if necessary.
- Install new components as necessary.

Tray 3

Run the components that follow:

- Enter dC330 code 081-045, HCF transport motor, to run the HCF transport roll, PL 80.33 Item 4.
- Pull out tray 3. Let the tray drop. Push the tray back in. Enter dC330 code 073-010, tray 3 elevator motor, to elevate tray 3, PL 70.21 Item 1.
- Pull out tray 3. Enter dC330 code 081-030, tray 3 feed motor. Add the code 081-033, tray 3 feed clutch, to rotate the tray 3 feed rolls, PL 80.32.

NOTE: The bypass tray clutch will also energize when component control code 081-033 is entered.

Possible causes and potential solutions are:

 Symptom: knocking noise, no drive or a knocking noise from the HCF transport motor.

Possible causes:

- The HCF transport motor or drives.
- Worn or stretched tray 3 elevator cables.

Potential solutions:

- Adjust or install new components as necessary, PL 70.18 and PL 80.32.
- Check that the paper trays are correctly positioned and that the tray moves freely inside the tray assembly.

Tray 4

Run the components that follow:

- Enter dC330 code 081-045, HCF transport motor, to run the HCF transport roll and tray 4 transport drives, PL 80.36 and PL 80.33 Item 4.
- Pull out tray 4. Let the tray drop. Push the tray back in. Enter dC330 code 074-010, tray 4 elevator motor to elevate tray 4, PL 70.21 Item 1.
- Pull out tray 4. Enter dC330 code 081-040, tray 4 feed motor. Add the code 081-043, tray 4 feed clutch, to rotate the tray 4 feed rolls, PL 80.33.

Possible causes and potential solutions are:

Symptom: knocking noise, no drive or a knocking noise from the HCF transport motor.

Possible causes:

- The HCF transport motor or drives, PL 80.36.
- Worn or stretched tray 4 elevator cables.

Potential solutions:

- Check the HCF transport drives, PL 80.36.
- Adjust or install new components as necessary, PL 70.19 and PL 80.33.
- Check that the paper trays are correctly positioned and that the tray moves freely inside the tray assembly.

Xerographics

Run the components that follow:

- Enter dC330 code 093-040, toner cartridge motor, to run the toner cartridge motor, part of the toner dispense module, PL 90.17 Item 1.
- Enter dC330 code 093-045, print cartridge motor to run the print cartridge motor, part of the main drive unit. PL 40.15 Item 5.

Possible causes and potential solutions are:

Symptom: knocking or clicking noise.

Possible causes are:

Print cartridge drive gears not correctly engaged.

Potential solutions:

Remove, then re-install the print cartridge.

Fuser Module

Run components that follow:

 Enter dC330 code 010-020, fuser/exit Motor to run the fuser, part of the main drive unit, PL 40.15 Item 5.

Possible causes and potential solutions are:

· Symptom: knocking or clicking noise.

Possible causes are:

Fuser drive gear not correctly engaged.

Potential solutions:

Remove, then re-install the fuser module.

Centre Output Tray Offset Mechanism

Remove the centre output tray, REP 28.1. Enter dC330 code 010-500, offset motor forward or code 010-501, offset motor reverse, MOT10-500, Figure 2.

Symptom: noisy operation of the offset mechanism.

Possible cause:

 Incorrect mesh between the offset motor pinion, PL 10.11 Item 14 and the shuttle rack teeth, PL 10.11 Item 22.

Potential solution:

 Loosen the two screws securing the offset motor bracket, PL 10.11 Item 15 to the exit guide housing, PL 10.11 Item 2. Move the motor bracket up as far as possible, then re-tighten the screws.

Horizontal Transport

Run the components that follow:

 Enter dC330 code 010-040, horizontal transport motor, to run the horizontal transport rolls, PL 10.16 Item 4.

Possible causes and potential solutions are:

Symptom: squeaks.

Possible causes are:

- Contamination of the drive shafts and bearings.
- Incorrectly adjusted or worn drive belts.
- Incorrectly aligned or damaged parts.
- Idler roll snap features rubbing against the idler roller snap features (4 idler rolls)

Potential solutions:

- Remove, clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication.
- Check for parts that are damaged or out of position.
- Adjust the components if necessary.
- Install new components as necessary.
- Lubricate the idler rolls, ADJ 40.1.

2K LCSS

Run the components that follow:

- Enter dC330 code 012-223, transport motor 1, to rotate the feed rolls, PL 12.40.
- Enter dC330 code 012-224, transport motor 2, to rotate the entry rolls, PL 12.60.

- Enter dC330 code 012-239, paddle roll motor run, rotates the paddle wheel shaft assembly, PL 12.25 Item 4.
- Enter dC330 code 012-232, tamp mot cycle, cycles the front and rear tampers, PL 12.45.
- Enter dC330 code 012-236, ejector mot cycle, cycles the ejector assembly, PL 12.50 Item 1.
- Enter dC330 code 012-242, bin 1 elevator motor cycle, to move bin 1 up and down, PL 12.10 Item 10.

NOTE: The bin will move down and then move up to the home position.

- Enter dC330 code 012-244, punch head run, rotates the punch head, PL 12.20 Item 2.
- Enter dC330 code 012-250, SU1 motor cycle, cycles the stapler from the front to the rear, PL 12.55 Item 5.

Possible causes and potential solutions are:

Symptom: 2 knocks for each stapled set.

Potential solutions:

- Perform the 312-340-00-110, 312-341-00-110, 312-342-00-110 Ejector Movement Failure RAP.
- · Symptom: noise from the right side of the machine.

Possible causes are:

The 2K LCSS is not aligned correctly.

Potential solutions:

- Check the machine to 2K LCSS alignment, ADJ 12.2-110.
- Adjust the components if appropriate.
- Install new components as necessary.
- Symptom: clicking Noise from the 2K LCSS.

Possible causes are:

The staple head continually operating for approximately 15 seconds. This occurs every time the 2K LCSS top cover or front door is opened then closed, because the stapler is attempting to prime the staple head, by indexing the staple stick forward and pre-forming 2 staples.

Potential solutions:

- Check the staple cartridge for jammed staples and remove any that are found.
- Ensure the staple cartridge is fully seated.
- Ensure that the correct staple cartridge is installed.
- Perform the 312L-110 Stapling Prime Failure RAP.
- Symptom: loud grinding/binding noise from the 2K LCSS.

Possible causes are:

- The ejector shafts are dry, gummy or dirty, PL 12.50 Item 10.
- The ejector bearings are dry, gummy or dirty, PL 12.50 Item 11 and PL 12.50 Item
 12.

Potential solutions:

Clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication.

LVF BM

Run the components that follow:

- Enter dC330 code 012-223, transport motor 1, to run the feed rolls, PL 12.385.
- Enter dC330 code 012-224, transport motor 2, to run the entry rolls, PL 12,370.
- Enter dC330 code 012-239, paddle wheel motor run, rotates the paddle shaft, PL 12.335 Item 2.
- Enter dC330 code 012-232, tamp mot cycle, cycles the front and rear tampers, PL 12.335 Item 1.
- Enter dC330 code 012-236, eject mot cycle, cycles the ejector assembly, PL 12.360 Item
- Enter dC330 code 012-242, bin 1 elevator motor cycle, to move bin 1 up and down, PL 12.320 Item 10.

NOTE: The bin will move down and then move up to the home position.

- Enter dC330 code 012-244, punch head run, rotates the punch head, PL 12.330 ltem 2.
- Enter dC330 code 012-250, SU1 motor cycle, cycles the stapler from the front to the rear, PL 12.365 Item 5.
- Enter dC330 code 012-256, BM tamper motor 1, to move the booklet maker tamper arms, PL 12.380 Item 2.
- Enter dC330 code 012-271, BM flapper motor, to run the BM compiler flappers, PL 12.390 Item 10.
- Enter dC330 code 012-435, BM stapler unit move motor, to move the BM staple head assembly, PL 12.395 Item 5.
- Enter dC330 code 012-255, BM back stop motor, to run move the BM back stop, PL 12.400 Item 9 between the A4 receive, staple and crease positions.
- Enter dC330 code 012-252, BM crease blade motor, to cycle the crease blade, PL 12.405 Item 5.
- Enter dC330 code 012-253, BM crease roll motor, to run the crease rolls, PL 12.410.

Possible causes and potential solutions are:

· Symptom: 2 knocks for each stapled set.

Potential solutions:

- Perform the 312-340-00-150, 312-342-00-150 Ejector Movement Failure RAP.
- · Noise from the right side of the machine.

Possible causes are:

The LVF BM is not aligned correctly.

Potential solutions:

- Check the machine to LVF BM alignment, ADJ 12.2-150.
- Adjust the components if appropriate.
- Install new components as necessary.
- Symptom: clicking Noise from the LVF BM.

Possible causes are:

The staple head continually operating for approximately 15 seconds. This occurs every time the LVF BM top cover or front door is opened then closed, because the stapler is attempting to prime the staple head, by indexing the staple stick forward and pre-forming 2 staples.

Potential solutions:

- Check the staple cartridge for jammed staples. Remove any that are found.
- Ensure the staple cartridge is fully seated.
- Ensure that the correct staple cartridge is installed.
- Perform the 312-377-00-150 LVF BM Stapling Failure RAP.
- Symptom: loud grinding/binding noise from the LVF BM.

Possible causes are:

- The ejector shafts are dry, gummy or dirty, PL 12.360 Item 11.
- The ejector bearings are dry, gummy or dirty, PL 12.360 Item 12 and PL 12.360 Item 13.

Potential solutions:

Clean and lubricate the drive shafts and bearings. Refer to ADJ 40.1 Machine Lubrication

Scanner

Possible causes and potential solutions are:

Symptom: loud clicking noise.

Possible causes are:

The scanner transit lock is engaged.

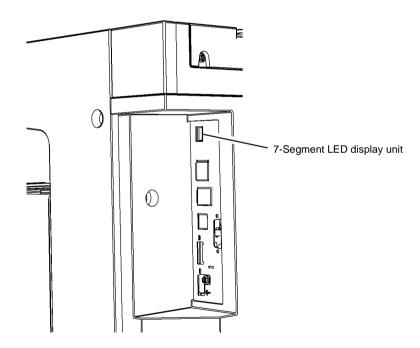
Potential solutions.

Release the transit lock.

OF2 POST Error RAP

Use this RAP when the UI has stalled and shows the splash-logo screen, or the system appears to have power but the UI is blank.

- Power on Self Test (POST) occurs each time the machine is powered on. POST verifies
 the functionality of key subsystems.
- POST begins when power is switched on before higher level machine functions (such as the user interface) are operational.
- POST is performed by the IOT PWB and the SBC PWB.
- The fault is communicated via a 7-Segment LED display unit on the rear of the machine attached to the SBC PWB, Figure 1. This is to help diagnose common faults which prevent the machine from powering up correctly to the point where faults are displayed and service mode can be entered. The LED display should show just a pulsing decimal point when the machine boots correctly, The main codes are displayed for short periods of time during power up depending, on how long each test takes. If any code is left displayed during power up and the machine appears not to have powered on correctly, then this should indicate the problem component. Refer to Table 1.



W-1-1051-A

Figure 1 SBC LED display unit

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

To check for the system power up error:

- 1. Switch off, then switch on the machine, GP 14.
- If the system has powered up correctly, there will be a pulsing decimal point on the 7-segment display, Figure 1.
- 3. If the system power up sequence has failed, check the code on the LED display. Refer to Table 1 for the actions required for each code.
- 4. If the fault persists, go to the OF3 Dead Machine RAP.

Table 1 7-Segment LED display

| | Table 1.7 Cognient LLD display | | | | |
|---------------|--------------------------------|----------------------------|-------------------------------------|---|--|
| Fault Code | POST Code Name | Decimal Point Status | Code Description | Service Action | |
| Blank | Machine in ready mode | Flashing | None, no fault detected. | No action, no fault detected. | |
| 0 | Initial entry to kernel code | Flashing | In U-boot, no POST fault. | Install a new SD card, PL 3.22 Item 6. | |
| 1 | PWB | Off | Failed explorer con- troller. | Install a new SBC PWB, PL 3.22 Item 3. | |
| 2 | System memory | Flashing | Failed system mem- ory. | Install a new SBC PWB, PL 3.22 Item 3. | |
| 3 | EPC memory | Flashing | Failed EPC memory. | Install a new SBC PWB, PL 3.22 Item 3. | |
| 4 | NVM | Flashing | Failed NVM memory. | Install a new SD card, PL 3.22 Item 6. | |
| 5 | SD card | Flashing | Failed flash memory. | See NOTE 2. | |
| 6 | External hard drive | Flashing | Failed hard drive. | Go to the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP. | |
| 7 | RTC module | Flashing | Failed RTC. | Install a new SBC PWB, PL 3.22 Item 3. | |
| 8 | Display test | On | Initial 7-segment display test. | Remove, then re-install the SD card, PL 3.22 Item 6. If the fault persists, see NOTE 2. | |
| 9 | U-boot complete | Flashing | U-boot hand over control to kernel. | See NOTE 3. Reload the software, GP 4. | |
| A | UI platform available | Flashing | UI platform avail- able. | See NOTE 1. Reload the software, GP 4. | |

Table 1 7-Segment LED display

| Fault Code | POST Code Name | Decimal Point Status | Code Description | Service Action |
|---------------|--------------------------------------|----------------------------|---|---|
| b | IIT comms established | Flashing | IIT comms established. | See NOTE 1. Reload the software, GP 4. If the fault persists, perform the 362-310-00 Scanner to SBC Communications Failure RAP. |
| С | NC platform available | Flashing | NC platform available. | See NOTE 1. See NOTE 4. Reload the software, GP 4. |
| d | DC platform available | Flashing | DC platform available. | See NOTE 1. Reload the software, GP 4. |
| E | IOT comms estab- lished | Flashing | IOT comms established. | See NOTE 1. Reload the software, GP 4. If the fault persists, perform the 303-316-00 CCM Cannot Communicate with IOT RAP. |
| F | Fax comms estab- lished | Flashing | Fax comms established. Only if Fax installed. | See NOTE 1. Reload the software, GP 4. If the fault persists, perform the 303-401-00, 303-403-00 Fax Not Detected RAP. |
| Н | Machine attempting sleep wake-up | Flashing | OS resuming drivers. | Reload the software, GP 4. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| L | Machine attempting sleep entry | Flashing or off | OS suspending drivers, entering sleep. | Reload the software, GP 4. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| r | Machine in sleep state | Off | Resting in sleep. | None, for diagnostic information only. |
| t | Machine in semi-con- scious state | Flashing | Running in semi- conscious mode. | Reload the software, GP 4. if the fault persists, install a new SBC PWB, PL 3.22 Item 3. |
| u | Kernel starting user space | Flashing | Kernel starting user space. | Go to the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP. |

NOTE:

- During power up, the 7-segment display cycles, displaying these codes until the relevant platform has fully synchronized with the system. A code displayed after power up indicates this event has not been detected in software.
- Install a new SD card, PL 3.22 Item 6. If the fault persists, install a new SBC PWB, PL 3.22 Item 3. The software level on the SD and SBC PWB card MUST be the same as the software level on the hard disk drive. If necessary, use a good working machine to reload software on the SD card and SBC PWB by use of AltBoot, GP 4, before they are installed in the faulted machine.
- A defective HVPS can short out +24V interlocked or +24V supplies. This causes the UI to go dark or blank and also displays a 9 in the seven segment display. Perform the 391A HVPS RAP.
- This fault may be caused by a faulty hard disk drive. If necessary, install a new hard disk drive, PL 3.22 Item 2.

OF3 Dead Machine RAP

use this RAP if the machine fails to reach an operational state when switched on.

Initial Actions

- Check the 7-segment LED display on the side of the single board controller module. If a code is displayed, perform the OF2 POST Error RAP.
- Check that the power cord is connected to the machine.
- Remove the power cord from the customer's power outlet. Wait 2 minutes. Reconnect the plug into the outlet. Switch on the machine, GP 14, If the fault persists, follow the proce-
- If the problem occurs while entering or exiting sleep mode, perform the 301K Sleep Mode RAP.
- If the machine continually switches off approximately 10 seconds after power on, perform the 301J Power On and LVPS Control Signal RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Only use the correct plug to connect a power lead to a power outlet.



CAUTION

Incorrect voltage may damage the machine. The machine must only be connected to the power outlet of the correct voltage.

Remove the rear cover, PL 28.10 Item 1. Connect the main power cord to the machine and the customer's power outlet. CR23, the top LED in the strip of LEDs at the middle right of the SBC PWB is the only illuminated LED (flashing).

Ν

Perform the 301C AC Power RAP.

Perform the 301J Power On and LVPS Control Signal RAP. The fault persists.

Perform SCP 5 Final Actions.

Check that the events that follow occur in sequence:

- The UI touch screen illuminates.
- The output module resets.
- The SPDH resets.
- The exposure lamp switches on.

The sequence completed correctly.

Perform the relevant action:

- If the UI touch screen illuminates, then the machine powers off, perform the 301H Short Circuit RAP.
- If the UI is illuminated but there is no image displayed, perform the 302A UI Touch Screen Failure RAP.
- If the UI is not illuminated, perform the 302A UI Touch Screen Failure RAP.
- If the UI touch screen is illuminated, but the printer fails to reach an operational state. perform the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP.
- If the output module failed to reset, perform the 303-360-00, 303-800-00 IOT to Finisher Error RAP.
- If the SPDH failed to reset, perform the 362-399-00 SPDH to Scanner Data Cable Failure RAP.
- If the exposure lamp is off, perform the Scanner to 362-310-00 SBC Communications Failure RAP.

If the UI displays the message "not ready to copy" or the machine continues to reboot without reaching an operational state, perform the OF5 Boot Up Failure RAP.

OF4 Status Codes and Messages RAP

Use this RAP for faults and messages without fault codes.

The status code numbers are in the series XX-XXX-XX. The first and second digits identify the relevant functional chain link number. The status code numbers are in the series XX-5XX-XX. However a shortage of 500 series numbers means that occasionally other numbers must be used. For example; XX-6XX-X and XX-9XX.-X Refer to GP 2 Fault Codes and History Files.

Status codes are used to call up UI status messages. The UI status messages are displayed in the Active Messages Log. The UI status messages can be displayed on the UI by pressing the Machine Status button on the keypad, selecting the Active Messages tab on the UI then selecting as appropriate:

- Faults and Alerts.
- Faults.
- Alerts.
- Fault History.

NOTE: The status codes are only displayed on the Web UI.

The tables in this procedure bring together the status codes, the relevant RAP or procedure references, and some of the UI messages.

Procedure

Enter the Fault Codes and History Files, GP 2. Identify and clear any active faults. Perform the RAPs that follow to identify a status code or message:

- OF4a Status Codes in Numerical Order.
- OF4b Status Messages in Alphabetical Order.

OF4a Status Codes in Numerical Order

Status Message Tables

- Table 1 01-5XX-XX Status codes.
- Table 2 02-5XX-XX Status codes.
- Table 3 03-XXX-XX Status codes.
- Table 4 04-5XX-XX Status codes.
- Table 5 05-5XX-XX Status codes.
- Table 6 09-5XX-XX Status codes.
- Table 7 10-XXX-XX Status codes.
- Table 8 12-XXX-XX Status codes.
- Table 9 14-5XX-XX Status codes.
- Table 10 16-5XX-XX Status codes.
- Table 11 17-5XX-XX Status codes.
- Table 12 19-5XX-XX Status codes.
- Table 13 20-5XX-XX Status codes.
- Table 14 22-5XX-XX Status codes.
- Table 15 41-5XX-XX Status codes.
- Table 16 6X-XXX-XX Status codes.
- Table 17 7X-XXX-XX Status codes.
- Table 18 81-XXX-XX Status codes.
- Table 19 9X-XXX-XX Status codes.

Table 1 01-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|-------------------------------------|--|---|
| 01-510-00 | The Front Door is open. | The front door is open. | Copying and printing services are disabled. Perform the 301-300-00 RAP. |
| 01-514-00 | The Left Side Door is open. | The bypass tray and left door assembly is open. | Copying and printing services are disabled. Perform the 301-305-00 RAP. |
| 01-515-00 | The Left Side Door is open. | The bypass tray and left door assembly is open for more than 30 seconds. | Copying and printing services are disabled. Perform the 301-305-00 RAP. |
| 01-540-01 | Check the set- tings for tray 1. | Paper removed or added to tray 1. | Confirm the tray 1 settings. |
| 01-540-02 | Check the set- tings for tray 2. | Paper removed or added to tray 2. | Confirm the tray 2 settings. |
| 01-540-05 | Check the set- tings for tray 5. | Paper removed or added to the bypass tray. | Confirm the bypass tray settings. |

Table 1 01-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|-------------------------------------|---|---|
| 01-545-01 | Tray 1 guides are not set properly. | Dedicated tray 1 closed with media size different to the programmed size. | Load the correct media size or change the tray preset size. Perform the 371-500-00 RAP. |
| 01-545-02 | Tray 2 guides are not set properly. | Dedicated tray 2 closed with media size different to the programmed size. | Load the correct media size or change the tray preset size. Perform the 372-500-00 RAP. |
| 51-550-00 | - | NC status code - system is in power save mode. | Printing will start when a job is received or a user initiates a job at the machine. |
| 01-551-00 | - | NC status code - system is in sleep mode. | Printing will start when a job is received or a user initiates a job at the machine. |

Table 2 02-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|---|--|
| 02-517-00 | Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | The CCS is counting down grace prints until a valid authorisation PIN is entered at the UI. | User intervention is required to enter a valid activation code. All services are available until all courtesy prints are used. |
| 02-518-00 | Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | The grace prints period has expired. | User intervention is required to enter a valid activation code. Print services are disabled. |
| 02-520-00 | The machine is not available | Software error has occurred. | Switch the machine off then on, GP 14. |
| 02-521-00 | Extensible Services not available Power Off then On and Notify System. | XEIP browser is dead. | Perform the 302-321-00 RAP. |
| 02-590-00 | Machine power on failed. Power Off then On and Notify System Administrator. | Configurable services are not stable at power on. | Switch the machine off then on, GP 14. If the fault persists, perform the 302-390-00 RAP. |

Table 3 03-5XX-XX Status codes

| Status | | | |
|-----------|---|---|---|
| Code | UI Message | Reason for Message | Reference/Action |
| 03-504-00 | The machine is offline. | NC status code. | Switch the machine off then on, GP 14. |
| 03-504-01 | The machine is offline. | NC status code. | Switch the machine off then on, GP 14. |
| 03-505-00 | System error. Power Off then On and Notify System Adminis- trator. | The machine is not available. | Perform the 303-325-00 RAP and 303-355-00 RAP. |
| 03-518-00 | Network Control- ler not available. Power Off then On and Notify System Adminis- trator. | The network controller is not available. | Perform the 303-331-00, 303-332- 00 RAP. |
| 03-520-00 | - | CCM to UI communication not established in 30 sec. | Perform the 303-346-00, 303-347- 00 RAP. |
| 03-521-00 | - | CCM to UI communication are lost. | Perform the 303-346-00, 303-347- 00 RAP. |
| 03-535-00 | - | The machine is in non intrusive diagnostic mode. | No user intervention required, please wait. |
| 03-536-00 | - | The machine has entered intrusive diagnostic mode. | No user intervention required, please wait. |
| 03-546-00 | Incompatible Fax software detected (upgrade required). | Incompatible fax soft- ware detected at power on. | The embedded fax software version is incompatible with the system. A software upgrade should be performed, GP 4. Refer to the 303-417-00 RAP. |
| 03-547-00 | A Fax Service error has occurred. Power Off then On. | Basic fax not detected or confirmed. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. |
| 03-548-00 | Fax line 2 is unavailable. Notify your Sys- tem Administra- tor. | Extended fax not detected or confirmed. | Check the fax line connection. If the fault persists, perform the 303-401-00, 303-403-00 RAP. |

| Status | Status | | | |
|-----------|---|--|---|--|
| Code | UI Message | Reason for Message | Reference/Action | |
| 03-549-00 | Fax memory error. Power Off then On and Notify System Administrator. | Fax POST failure status. | Switch the machine off, then on GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. | |
| 03-550-00 | A Fax service error has occurred. Power Off then On. | Fax card is unavailable. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. | |
| 03-551-00 | A Fax service error has occurred. Power Off then On. | The fax service is unavailable. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. | |
| 03-555-00 | Please wait Maintenance in progress. Scan, Copy and Print services not available. | The machine has entered intrusive customer tools mode. | Go to dC301. Perform a copier NVM initialization and NVM data select all. | |
| 03-556-00 | Please wait The scanner is initializing. | Power on while the IIT is being initialized. | No user intervention is required, please wait. | |
| 03-558-00 | Please complete all steps required by the external accounting device to access this service. | Generic FDI: unable to complete the current job. | Complete all steps required by the external accounting device to continue the job. | |
| 03-558-01 | Please insert card into the external account- ing device to access this ser- vice. | Walk up card entry FDI: access card required. | Complete all steps required by the external accounting device to continue the job. | |
| 03-558-02 | Please enter access code into external account- ing device to access this ser- vice. | Walk up code entry FDI: access code required. | Complete all steps required by the external accounting device to continue the job. | |
| 03-558-03 | Please insert money into the external account- ing device to access this ser- vice. | Walk up coin entry FDI: coin entry required. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. | |

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|---|---|
| 03-558-04 | Please insert Key Counter into the external accounting device to access this service. | Walk up key entry FDI: key counter required. | Complete all steps required by the external accounting device to continue the job. |
| 03-559-00 | Provide pay- ment or the cur- rent job may be deleted. | Generic FDI: unable to complete the current job due to insufficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| 03-559-01 | Provide pay- ment. | Walk up FDI: unable to complete the current job due to insufficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| 03-559-02 | Enter your access code or the current job may be deleted. | Walk up code entry FD: access code not entered. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| 03-559-03 | Provide payment. | Walk up coin entry FDI: not defined - FDI inac- tivity timer disabled. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. To cancel this job, press the hard-panel Job Status button, select the job and then the Delete button. |
| 03-559-04 | Provide pay- ment or the cur- rent job may be deleted. | Walk up key entry FDI: not defined. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| 03-559-05 | Provide pay- ment or the cur- rent job may be deleted. | Walk up FDI. Unable to complete the current job - FDI inactivity timer enabled. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job, select the Close button, then the Job Status button located on the control panel and then your job.lf no action is taken, the job will be deleted. |
| 03-559-06 | Provide pay- ment or the cur- rent job may be deleted. | Walk up coin entry FDI: not defined - FDI inac- tivity timer disabled. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. To immediately delete this job, select the Close button, then the Job Status button located on the control panel and then your job. If no action is taken, the job will be deleted. |

Table 3 03-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--|---|
| 03-561-00 | Please wait the system is attempting to recover. | The system is recovering. | Wait until the system recovers. |
| 03-562-00 | Some jobs may have been deleted. | Jobs may have been deleted due to a system error. | No service action. |
| 03-563-00 | The Network Controller is ini- tializing. Copy and Print jobs may be delayed. | Network service are being established. | Please wait, the network controller is initializing. No user intervention is required. Printing is currently unavailable. If the fault persists, perform the 303-331-00, 303-332-00 RAP |
| 03-564-00 | Image Rotation is not available. Power off then on and notify System Adminis- trator. | Image rotation is not available. | Switch the machine off then on, GP 14. |
| 03-565-00 | System Error. Power Off then On and Notify System Administrator. | System fault. | Switch the machine off then on, GP 14. |
| 03-578-00 | System error. Power Off them On and Notify System Administrator. | Paper tray error. | Switch the machine off then on, GP 14. |
| 03-581-00 | System Error. Power Off them On and Notify System Administrator. | Paper tray error. | Switch the machine off then on, GP 14. |
| 03-597-00 | The Document Feeder is not available. The Document Glass is still available. | The document feeder is not available. Use the document glass. | Switch the machine off then on, GP 14. |
| 03-598-00 | System Error. Power Off then On and Notify System Adminis- trator. | Unable to set ready mode. Printing and copying services are not available. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-788-00 RAP. |

Table 3 03-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|-------------------------------|--|---|
| 03-600-00 | Ready to Install. | Displayed at install when the machine is in the correct state to allow machine speed to be set from a blank SIM. | No service action. |
| 03-601-00 | Machine configuration locked. | Displayed when the machine speed is invalid. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-405-00, 303-406-00 RAP. |

Table 4 04-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|--|
| 04-565-00 | System Error. Power Off then On and Notify System Adminis- trator. | DC Platform interface failure. One or more DC platform interfaces has timed out. | System fault. Switch the machine off then on, GP 14. If the fault persists, perform the 303-315-00 RAP |
| 04-568-00 | The Output Tray is full. Empty the Output Tray. | The centre output tray is full. | Empty the centre output tray. |
| 04-569-00 | The Output tray is almost full. | The centre output detects that it is 90% full. | The centre output tray is almost full. The tray may be emptied now or when it is full. Printing and other machine services are unaffected. |

Table 5 05-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---------------------------------|---|--|
| 05-326-00 | Misfeed in the Document Feeder. | Document in the SPDH at power on or exit from power save. | Remove all documents from the SPDH. If the fault persists, perform the 305-960-00 RAP. |
| 05-330-00 | Misfeed in the Document Feeder. | Jam in document feeder, feed sensor covered. | Perform the 305-962-00 RAP. |
| 05-335-00 | Misfeed in the Document Feeder. | Jam in document feeder, takeaway sensor covered. | Perform the 305-335-00, 305-336- 00 RAP. |

Table 5 05-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|--|
| 05-340-00 | Misfeed in the Document Feeder. | Jam in document feeder, reg sensor covered. | Perform the 305-340-00, 305-341- 00 RAP |
| 05-343-00 | Misfeed in the Document Feeder. | Jam in document feeder, side 2 reg sensor covered. | Perform the 305-342-00, 305-343- 00 RAP |
| 05-344-00 | Misfeed in the Document Feeder. | Jam in document feeder, calibration home sensor covered. | Perform the 305-959-00 RAP |
| 05-361-00 | Misfeed in the Document Feeder. | Jam in document feeder, feed sensor and takeaway sensor cov- ered. | Open the top cover, remove any documents. As necessary, perform the 305-962-00 and 305-335-00, 305-336-00 RAPs. |
| 05-362-00 | Misfeed in the Document Feeder. | Jam in document feeder, feed, takeaway, reg or side 2 reg sensor covered. | Open the top cover, remove any documents. As necessary, perform the 305-962-00, 305-335-00, 305-336-00, 305-340-00, 305-341-00 or 305-342-00, 305-343-00 RAP. |
| 05-363-00 | Misfeed in the Document Feeder. | Jam in document feeder, reg sensor and side 2 reg sensor cov- ered. | Remove any documents. As necessary, perform the 305-340-00, 305-341-00 and 305-342-00, 305-343-00 RAP. |
| 05-501-00 | Scan and copy services not available. Print service is avail- able. | Document feeder is raised. | Close the document feeder. |
| 05-502-00 | The Document Feeder Top Cover is open. | The document feeder top cover is open. | Close the document feeder top cover. If the fault persists, perform the 305-305-00 RAP. |
| 05-535-00 | - | Document feeder tray loaded. | No user intervention required. |
| 05-560-00 | Remove the doc- ument. It is too short to be fed by Document Feeder. | The document is too short. | Remove the short document. Inform the customer that the document is too short to be fed by the SPDH. |
| 05-570-00 | Misfeed in the Document Feeder. | Reload originals to start job recovery following a jam in the document feeder. | Remove any documents. Re-order and reload originals. As necessary, perform the 305-335-00, 305-336- 00, 305-340-00, 305-341-00 or 305- 342-00, 305-343-00 RAP. |

Table 5 05-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|------------------------------|---|---|
| 05-571-00 | Original not fully inserted. | Document not fully inserted in the document feeder. | Remove any sheets from the document feeder to allow the device to initialize. Is necessary, perform the 305-940-00, 305-966-00 RAP. |

Table 6 09-XXX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|---|---|
| 09-521-00 | Replace Print Cartridge (R2). | IOT detects a print car- tridge failure. | Install a new print cartridge, PL 90.17 Item 9. |
| 09-568-00 | Toner Cartridge (R1) is nearly empty. Make sure you have a replacement. | Reorder toner car- tridge (R1) but do not replace until prompted. | Order a new toner cartridge, PL 26.11 Item 3. |
| 09-588-00 | Replace Toner Cartridge (R1). | Replace toner car- tridge (R1). | Install new toner cartridge. If the fault persists perform 393-390-00 RAP. |
| 09-594-00 | Reorder Fuser Module but do not replace until prompted. | Reorder fuser module but do not replace yet. | Order a fuser module, PL 10.8 Item 1, but do not replace until prompted. |
| 09-596-00 | Toner control system failure. | Toner control system fault. | Switch off, then switch on the machine, GP 14. If the fault persists, perform the 393-360-00 to 393-364-00 RAP. |
| 09-597-00 | Toner control system failure. | Toner control out of limits (high or low). | Perform the 393-360-00 to 393-364- 00 RAP. |
| 09-599-00 | Toner Cartridge (R1) is missing or not inserted correctly. | Toner cartridge RF CRUM not detected within 2 cartridge rota- tions. | Install a toner cartridge. If the fault persists, perform the 393-401-00 RAP. |
| 09-676-00 | - | Reorder toner car- tridge (R1) but do not replace until prompted. | Order a toner cartridge, PL 90.17 Item 2. |
| 09-677-00 | Incompatible Print Cartridge. Contact your System Administrator. | The print cartridge in the machine is metered. The machine is sold. This is an incompatible combination that results in revenue loss. | Install a correct print cartridge. If the fault persists, perform the 392-399-00 RAP. |

Table 6 09-XXX Status codes

| Status | | | |
|-----------|--|--|--|
| Code | UI Message | Reason for Message | Reference/Action |
| 09-678-00 | Toner Cartridge (R1) is incompatible and needs replacing. | The toner cartridge in the machine is incom- patible with the machine (market region, service plan or type). | Install a correct toner cartridge. If the fault persists, perform the 393-399-00 RAP. |
| 09-681-00 | - | The toner is near end of life and toner replacement has not been confirmed. | Confirm installation of a new toner cartridge. |
| 09-685-00 | Reorder Bias Transfer Roller (R4) but do not replace until prompted. | Reorder bias transfer roller but do not replace yet. | Order a new bias transfer roller, PL 80.15 Item 3, but do not replace until prompted. |
| 09-686-00 | - | The bias transfer roller low supply warning (reorder) threshold has been reached and the system administrator has acknowledged this condition. | Confirm that the system administrator has ordered a new bias transfer roller, PL 80.15 Item 3. |

Table 7 10-XXX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|---|---|
| 10-010-00 | Please wait Print Quality Maintenance in progress. | IOT switched into high area coverage recovery mode. No marking, sheets stopped below reg sensor and IOT dead cycling until TC recovers. | Clear any paper jam. Perform the 393-360-00 to 393-364-00 RAP. |
| 10-200-00 | Jam in Horizon- tal Transport. | Jam in the horizontal transport. Includes sheets covering sensors or late to sensors. | Clear the jam. If the fault persists, perform the 310-170-00 or 310-171-00 RAP. |
| 10-505-00 | Please wait Fuser is warming up. | Fuser is not at run temperature. | Perform the 310-330-00, 310-340- 00 RAP. |

Table 7 10-XXX-XX Status codes

| Status | | | |
|-----------|--|--|---|
| Code | UI Message | Reason for Message | Reference/Action |
| 10-506-00 | Fuser tempera- ture control fail- ure. | Fuser is above maximum fuser operating temperature - shutdown requested. | Printing may be delayed. No user intervention required. |
| 10-523-00 | Replace Fuser Module (R3). | The fuser needs replacing. | Install a new fuser, PL 10.8 Item 1. |
| 10-524-00 | Reorder Fuser Module (R3) but do not replace until prompted. | The fuser low supply warning, threshold has been reached. | Order a fuser module, PL 10.8 Item 1, but do not replace until prompted. |
| 10-537-00 | Incompatible Fuser Module. Contact your System Administrator. | Fuser module is not compatible with the device. | Check the market region of the machine, dC134. Install the correct fuser, PL 10.8 Item 1. |
| 10-547-00 | Check Fuser is inserted correctly. | IOT is unable to read from the fuser CRUM. The fuser module is missing or not installed correctly. | Ensure the fuser module is correctly installed. If necessary, switch the machine off, GP 14. Re-install the fuser then switch the machine on. |
| 10-548-00 | Check Print Car- tridge is inserted correctly. | Print cartridge is missing or CRUM communications problems. The print cartridge is missing or not installed correctly. | Ensure the print cartridge is correctly installed. If necessary, switch the machine off, GP 14. Re-install the print cartridge, then switch the machine on. |
| 10-550-00 | Printer failed to warm up. | Fuser warmup failure. | Perform the 310-330-00, 310-340- 00 Fuser Warm Up Failure RAP. |
| 10-565-00 | Paper Transport Cover is open. | Finisher paper trans- port cover is open. | Close the horizontal transport cover, PL 10.15 Item 11. |
| 10-73-00 | Please wait Printer is warm- ing up. | Warming up. | No service action. |
| 10-702-00 | Centre Tray Off- setting is not available. Power Off then On and Notify System Administrator. | Offset motor offset fail. | Switch the machine off then on, GP 14. |

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|----------------|--|--|--|--|
| Status Code | UI Message | Reason for Message | Reference/Action | |
| 12-411-00 | The current job exceeds the tray capacity, you will be prompted to empty the tray. | Copy job will exceed the output destination's capacity. | Empty the tray. | |
| 12-564-00 | The finisher front door is open. | The 2K LCSS front door is open. | Close the finisher front door. If the fault persists perform the 312-310-00-110, 312-312-00-110, 312-313-00-110 RAP. | |
| 12-564-03 | The finisher front door is open. | The LVF BM front door is open. | Close the finisher front door. If the fault persists perform the 312-310-00-150, 312-312-00-150, 312-313-00-150 RAP. | |
| 12-579-00 | Hole punching not available. Power Off then On and Notify System Adminis- trator. | Hole punching is not available. | Check that the hole punch unit is correctly installed. Switch the machine off then on, GP 14. If the fault persists, perform the 312-043-00-150, 312-046-00-150 RAP for the LVF, 312-043-00-110, 312-046-00-110 for the 2K LCSS. | |
| 12-595-00 | Jam in Horizon- tal Transport. | Paper covering the horizontal transport sensor. | Clear the jam. If the fault persists, perform the 310-170-00 or 310-171-00 RAP. | |
| 12-600-00 | Finisher is not docked. Re-dock finisher now. | The 2K LCSS is not correctly docked. Printing has stopped. | Dock the output module. If the fault persists, perform the 312-310-00-110, 312-312-00-110, 312-313-00-110 RAP. | |
| 12-600-03 | Finisher is not docked. Re-dock finisher now. | The LVF BM is not correctly docked. Printing has stopped. | Dock the output module. If the fault persists, perform the 312-310-00-150, 312-312-00-150, 312-313-00-150 RAP. | |
| 12-602-00 | Close finisher top cover. | The 2K LCSS top cover is open. | Close the finisher top cover. If the fault persists, perform the 312-310-00-110, 312-312-00-110, 312-313-00-110 RAP. | |
| 12-602-03 | Close finisher top cover. | The LVF BM top cover is open. | Close the finisher top cover. If the fault persists, perform the 312-310-00-150, 312-312-00-150, 312-313-00-150 RAP. | |
| 12-610-00 | Paper Jam in the Finisher. | Paper is detected over the 2K LCSS entry sen- sor. | Clear the paper jam. If the fault persists, perform the 312-125-00-110, 312-126-00-110, 312-199-00-110 RAP. | |

| Table of 12-NAN-AA Status codes | | | |
|---------------------------------|----------------------------|---|---|
| Status Code | UI Message | Reason for Message | Reference/Action |
| 12-610-03 | Paper Jam in the Finisher. | Paper is detected over the LVF BM entry sen- sor. | Clear the paper jam. If the fault persists, perform the 312-125-00-150, 312-126-00-150, 312-199-00-150 RAP. |
| 12-611-00 | Paper Jam in the Finisher. | Paper jam near the entry to the finisher unit. | Clear the paper jam. |
| 12-612-00 | Paper Jam in the Finisher. | Paper is detected over the hole punch position sensor at power-up, interlock status change or after shutdown. (2K LCSS). | Clear the paper jam. |
| 12-612-03 | Paper Jam in the Finisher. | Paper is detected over the hole punch position sensor at power-up, interlock status change or after shutdown. (LVF BM). | Clear the paper jam. |
| 12-618-00 | Paper Jam in the Finisher. | Paper is detected over the top tray exit sensor at power-up, interlock status change or after shutdown (2K LCSS). | Clear the paper jam. |
| 12-618-03 | Paper Jam in the Finisher. | Paper is detected over the top tray exit sensor at power-up, interlock status change or after shutdown. (LVF BM). | Clear the paper jam. |
| 12-620-00 | Paper Jam in the Finisher. | Paper is detected over the 2k LCSS compiler exit sensor at power- up, interlock status change or after shut- down. | Clear the paper jam. If the fault persists, perform the 312-151-00-110, 312-152-00-110 RAP. |
| 12-620-03 | Paper Jam in the Finisher. | Paper is detected over the LVF BM compiler exit sensor at power- up, interlock status change or after shut- down. | Clear the paper jam. If the fault persists, perform the 312-151-00-150, 312-152-00-150 RAP. |
| 12-630-03 | Paper Jam in the Finisher. | Sheet over the booklet maker entry sensor (LVF BM). | Clear the area. If the fault persists, perform the 312-160-00-150, 312-162-00-150 RAP. |

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|-----------|---|--|---|
| Status | | | |
| Code | UI Message | Reason for Message | Reference/Action |
| 12-636-03 | Paper Jam in the Finisher. | Sheet over the booklet maker exit sensor (LVF BM). | Clear the jam from the output bin. If the fault persists, perform the 312- 180-00-150, 312-182-00-150 RAP. |
| 12-640-00 | Hole punch not detected (Miss- ing). Please insert the hole punch. | The finisher punch unit is missing or incorrectly installed. | Ensure that the punch unit is correctly installed. |
| 12-642-00 | Booklet Maker Staple Cartridges (R8) are nearly empty. Make sure you have replacements. | Booklet maker staple cartridges (R8) are nearly empty. | The booklet maker staple cartridge supplies are low. Order a staple cartridge, PL 12.365 Item 7 for the LVF BM. |
| 12-643-00 | Replace Booklet Maker Staple Cartridges (R8). | The booklet maker sta- ple cartridge is empty. | The booklet maker staple cartridge is empty. Follow the instructions at the printer to load a new staple cartridge, PL 12.365 Item 7 or the LVF BM. Printing can continue, but stapled booklet making is unavailable. |
| 12-644-03 | - | The LVF booklet maker staple cartridge is empty. | Install a new booklet maker staple cartridge, PL 12.365 Item 7. |
| 12-649-00 | The Hole Punch Waste Container is full. Empty the Hole Punch Waste Container. | The hole punch chad bin is full and needs emptying. | Hole punch waste container is full, jobs requesting hole punching will be held. Empty the chad bin. |
| 12-649-01 | Empty the Hole Punch Waste Container. | The hole punch chad bin is full and needs emptying. | Hole punch waste container is full, jobs requesting hole punching will be held. Empty the chad bin. |
| 12-653-00 | Stapling fault. Power Off then On and Notify System Administrator. | Stapling disabled, out of service. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. |
| 12-665-00 | Finisher Main Tray is out of ser- vice. Power Off then On and Notify System Administrator. | Bin 1 out of service status. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. |
| 12-692-00 | Finisher Top Tray is full. Empty Top Tray. | The finisher top tray is full. | Empty the top tray. |

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|----------------|--|--|--|
| Status Code | UI Message | Reason for Message | Reference/Action |
| 12-714-01 | - | 2K LCSS main staple cartridge is empty. | Install a new staple cartridge, PL 12.55 Item 7. |
| 12-714-03 | - | LVF BM main staple cartridge is empty. | Install a new staple cartridge, PL 12.365 Item 7. |
| 12-715-00 | Replace Staple Cartridge (R7). | The finisher's main staple cartridge is empty. | Install new staple cartridge, PL 12.55 Item 7 for the 2K LCSS, PL 12.365 Item 7 for the LVF BM. |
| 12-716-00 | Staple Cartridge (R7) is nearly empty. Make sure you have a replacement. | Finisher staples are low. | The finisher's main staple cartridge supplies are low. Re-order staple cartridge. Printing can continue. PL 12.55 Item 7 for the 2K LCSS, PL 12.365 Item 7 for the LVF BM. |
| 12-717-03 | Paper Jam in the Finisher. | Sheet over the LVF BM compiler paper present sensor. | Clear the LVF BM paper present sensor area 6e. If the fault persists, perform the 312-184-00-150, 312- 494-00-150, 312-496-00-150 RAP. |
| 12-720-00 | Booklet Stapler not available. Power Off then On and Notify System Adminis- trator. | Booklet making unavailable. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. If the fault persists, perform the 312-352-00- 150, 312-353-00-150 RAP. |
| 12-726-00 | Booklet Stapler not available. Power Off then On and Notify System Adminis- trator. | Failure of the booklet maker stapling functions. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. If the fault persists, perform the 312-352-00- 150, 312-353-00-150 RAP. |
| 12-727-00 | The Booklet Maker Tray in the Finisher is nearly full. | The booklet maker output tray is nearly full. | The booklet maker tray is near full. User intervention will be required soon to empty the tray to allow continued booklet making. Print and copy services can continue; other machine services are unaffected. |
| 12-728-00 | The Booklet Maker Tray in the Finisher is full. Empty the Tray. | Booklet maker output tray full. | Empty the tray. |
| 12-729-00 | Finisher Top Tray is nearly full. | The finisher top output bin is nearly full. | The top output bin is nearly full. This output bin may need to be unloaded soon. Printing can continue. |
| 12-730-00 | Finisher Main Tray is full. | The stacker tray is full (LVF BM and 2K LCSS). | The middle output bin is full. This output bin needs to be unloaded. Printing to this output bin is disabled. |

Table 8 12-XXX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--|---|
| 12-734-00 | Finisher Main Tray is nearly full. | Stacker tray bin is nearly full. | No action necessary. |
| 12-740-00 | Tray is ready for unloading. Press the button on Finisher to return tray to ready position. | Finisher tray is ready for unloading. | Follow the instructions to unload the tray. |
| 12-741-00 | Please wait The output tray is lowering. | Finisher is about to go back on-line. | No action necessary. |
| 12-742-00 | Output Tray on- line. | Finisher has gone back on-line. | No action necessary. |
| 12-762-00 | Finisher Commu- nications Error. Check Cabling. Power Off then On. | Communication failure between SBC and finisher. | Switch the machine off then on, GP 14. Check the finisher communication harness. If the fault persists, perform the 303-360-00, 303-800-00 RAP. |
| 12-765-00 | Incompatible or unknown Fin- isher detected. Check Finisher compatibility. | The SBC interface indicates that the finisher is incompatible/unknown. | Switch the machine off then on, GP 14. Check the finisher communication harness. |
| 12-901-00 | Unable to sta- ple. Check for obstructions in the output trays. | The finisher is in degraded mode, unable to staple. | Switch the machine off then on, GP 14. If the fault persists, perform 312E-110 RAP for the 2K LCSS, 312E-150 RAP for the LVF BM. |
| 12-902-00 | Finisher Main Tray out of service. Check for obstructions in the Main Tray. | Stacker tray fault. | Switch the machine off then on, GP 14. Check for obstructions in the tray. |
| 12-908-00 | Hole Punching is unavailable. Check for obstructions in the hole puncher. | The finisher hole punch head motor has failed. | Clear the paper jam. Switch the machine off then on, GP 14. If the fault persists, perform 312-043-00-110, 312-046-00-150, 312-046-00-150 RAP for the LVF BM. |
| 12-692-01 | Output tray is full. | The centre output tray is full. | Empty the centre output tray. |
| 12-729-01 | Output tray is nearly full. | The centre output tray is nearly full. | The centre output tray is almost full. The tray may be emptied now or when it is full. Printing and other machine services are unaffected. |

Table 9 14-5XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|----------------|--------------------|--|
| 14-517-00 | Scanner Fault. | Scanner fault. | Switch the machine off then on GP 14. Check the current fault codes list for faults in the scanner and perform the appropriate RAP. |

Table 10 16-5XX-XX Status codes

| Status | | | |
|-----------|---|--|---|
| Code | UI Message | Reason for Message | Reference/Action |
| 16-501-00 | Network Services with Job Based Accounting not available. Notify your System Administrator. | Job based accounting not enough DC mem- ory. Some network con- troller services are not available. | Not enough CCM memory to run the network accounting feature. Perform the 316E Network Fault Checkout RAP. |
| 16-502-00 | The Network Controller con- nection is about to be reset. | Status active when ever the network controller detects that a platform reset is about to occur | Cleared when the network controller reset is initiated. |
| 16-503-00 | System Error. Power Off then On and Notify System Adminis- trator. | Incomplete system information. | Switch the machine off then on, GP 14. If the fault persists perform the 303-315-00 DC Platform Internal Interface Fault RAP. |
| 16-504-00 | Some Network Services involv- ing DDNS are not available. Notify your Sys- tem Administra- tor. | DDNS error. Some net- work controller services are not available. | The DDNS address resolution process has failed. Switch the machine off then on, GP 14. If the fault persists check the DDNS server's network connections. |
| 16-505-00 | Network Services involving Scan to E-mail are not available. Notify System Administrator. | Insufficient memory for e-mail. | Switch the machine off then on, GP 14. If the fault persists check the network connections. |

| Status | | | |
|-----------|---|--|--|
| Code | UI Message | Reason for Message | Reference/Action |
| | _ | | |
| 16-506-00 | Your Administra- tor is reconfigur- ing the system. Services will not be available. | Your Administrator is reconfiguring the system. | The System Administrator is saving the machine configuration to a remote station. |
| 16-507-00 | Some Network Services involv- ing SLP are not available. Notify your System Administrator. | SLP process stopped. Some network control- ler services are not available. | Switch the machine off then on, GP 14. |
| 16-508-00 | Autonet functions are not available. Notify your System Administrator. | Autonet is not available. | Switch the machine off then on, GP 14. Printing can continue if other network protocols are used |
| 16-509-00 | Some Network Services involv- ing Internet Fax are not available. Notify System Administrator. | Insufficient memory for internet fax. | Switch the machine off then on, GP 14. Printing can continue if other network protocols are used |
| 16-510-00 | Network Services involving Scan to E-mail are not available. Notify System Administrator. | Scan to e-mail process failed. | Switch the machine off then on, GP 14. If the fault persists check network connections |
| 16-511-00 | Network Services related to Internet Fax are not available. Notify System Administrator. | Internet fax process failed. | Switch the machine off then on, GP 14. If the fault persists check net- work connections |
| 16-513-00 | Some Network Services involv- ing SSDP are not available. Notify your System Administrator. | Simple service discovery protocol (SSDP) failed. | Switch the machine off then on, GP 14. |
| 16-514-00 | Network Services involving Scan to E-mail are not available. Notify System Administrator. | Post office protocol (POP3) (for inbound Internet fax messages) process failed. | Switch the machine off then on, GP 14. |

| Status | | | |
|-----------|---|---|--|
| Code | UI Message | Reason for Message | Reference/Action |
| 16-517-00 | Network Services involving Scan to E-mail are not available. Notify System Administrator. | SMTP process failed. | Switch the machine off then on, GP 14. |
| 16-518-00 | Network Services using WS Edge Client are not available. Notify your System Administrator. | Web services edge cli- ent interface does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |
| 16-519-00 | Network Services using WS Edge Client are not available. Notify your System Administrator. | Web services client controller does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |
| 16-520-00 | Network Services using WS Edge Client are not available. Notify your System Administrator. | Web services server controller interface does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |
| 16-521-00 | The Network Controller con- nection is about to be reset. | The network control- ler's CPI service pro- cess has stopped. | Machine services are temporarily disabled. The network controller connection is about to be reset. No user intervention is required. |
| 16-522-00 | The Network Controller con- nection is about to be reset. | The network control- ler's job log service pro- cess has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. |
| 16-523-00 | The Network Controller con- nection is about to be reset. | The network control- ler's job tracker service process has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. |
| 16-524-00 | The Network Controller con- nection is about to be reset. | The network control- ler's Kerberos service process has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. |

| _ | Table 10 16-5XX-XX Status codes | | | |
|----------------|---|--|--|--|
| Status Code | UI Message | Reason for Message | Reference/Action | |
| 16-525-00 | The Network Controller con- nection is about to be reset. | The network control- ler's scan to distribution service process has stopped | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. | |
| 16-526-00 | The Network Controller con- nection is about to be reset. | The network control- ler's SMB service pro- cess has stopped. | Some network service are not available. The network controller connection is about to be reset. No user intervention is required. | |
| 16-527-00 | The Network Controller con- nection is about to be reset. | The network control- ler's TCP/IP service process has stopped. | Some network service are not available. The network controller connection is about to be reset. No user intervention is required. | |
| 16-528-00 | The Network Controller con- nection is about to be reset. | The network control- ler's WS scan temp service process has stopped. | Some network service are not available. The network controller connection is about to be reset. No user intervention is required. | |
| 16-529-00 | Network Services with Scan Compressor are not available. Notify your System Administra- tor. | The network control- ler's Scan compressor service process has stopped. | Some network service are not available. The network controller connection is about to be reset. No user intervention is required. | |
| 16-533-00 | Service Limit exceeded. New services will not be available until some services are removed. | Controller software service limit exceeded. | Remove some existing services to enable new services to be added. Machine services are available but may be degraded. | |
| 16-535-00 | Immediate Job Overwrite Failed. Perform an On Demand Over- write immedi- ately. | Immediate job over- write failed. | Immediate job overwrite failed. Administrator intervention is required to perform an ODIO immediately. | |
| 16-536-00 | Network Control- ler error. Some Network Ser- vices not avail- able. Notify System Adminis- trator. | The XSA service is unavailable. Network controller error. | Switch the machine off then on, GP 14. | |

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|--|--|
| 16-540-00 | Ensure the USB Wireless Net- work Interface is properly con- nected. | USB wireless network not connected. | Perform the 316D RAP. |
| 16-544-00 | Ensure network cables are properly connected. | An ethernet cable is unplugged. | Ensure cables are properly connected. |
| 16-550-00 | Machine entering SW upgrade mode. ALL jobs will be cancelled. | Machine entering soft- ware upgrade mode - all jobs will be can- celed. | The machine entered a software upgrade mode (all jobs will be deleted). No user intervention is required. Machine services are unavailable until the software upgrade process has completed. |
| 16-551-00 | Accounting out of memory. Notify your Sys- tem Administra- tor. | Network controller - accounting log is full or a hard disk full state exists. | Accounting Administrator needs to retrieve accounting data log from the system. |
| 16-553-00 | Additional memory is required to support Scan to File. Notify your System Administrator. | Network controller - not enough physical mem- ory is configured on the platform to support scan to file. | Switch the machine off then on, GP 14. Hardware must be added or replaced. |
| 16-554-00 | Workflow Scan- ning hardware must be added or replaced. Notify your Sys- tem Administra- tor. | Network controller - hardware must be added or replaced. | Hardware must be added or replaced. |
| 16-555-00 | Insufficient memory for Fax job. Notify your System Administrator. | Network controller - not enough physical mem- ory is configured on the platform to support LAN fax. | Additional memory required to support fax. The fax service is not available. Switch the machine off then on, GP 14. |
| 16-556-00 | - | There is an authentication problem between the 802.1x device and the 802.1x server. | User intervention is required to check the settings on the 802.1x device to ensure they match the 802.1x server, then switch the machine off then on, GP 14. |

| Status | | | |
|-----------|---|---|--|
| Code | UI Message | Reason for Message | Reference/Action |
| 16-557-00 | Network Services using DC Platform recovery not available. Notify System Administrator. | Network controller DC platform recovery failed. | Switch the machine off then on, GP 14. |
| 16-558-00 | Network Services using DC Platform recovery not available. Notify System Administrator. | Network controller DC communications failed. | Switch the machine off then on, GP 14. |
| 16-559-00 | Network Services using BOOTP Initialization not available. Notify System Administrator. | Network controller BOOTP initialization failure. | Check the BOOTP server and its network connection. Switch the machine off then on, GP 14. |
| 16-560-00 | Some Network Services are not available due to a process error. Notify System Administrator. | Some processes on the network controller have failed. | Switch the machine off then on, GP 14. |
| 16-561-00 | Scan to File not available. Power Off then On and Notify System Administrator. | Network controller - scan to file processes have failed. | Switch the machine off then on, GP 14. |
| 16-562-00 | Some Network Services involv- ing LPD are not available. Notify your System Administrator. | Network controller - the line printer daemon (LPD) process has failed. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. |
| 16-563-00 | Some Network Services involv- ing Novell are not available. Notify your Sys- tem Administra- tor. | Network controller - the Novell netware connec- tivity process has failed. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. |

| Status | | | |
|-----------|--|--|--|
| Code | UI Message | Reason for Message | Reference/Action |
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| 16-564-00 | Some Network Services involv- ing NetBios are not available. Notify System Administrator. | Network controller - the NetBIOS connectivity process has failed. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. |
| 16-565-00 | Network Services involving AppleTalk are not available. Notify your System Administrator. | Apple Talk printing error. Printing can continue using other submission methods. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. |
| 16-567-00 | Network Services involving PostScript are not available. Notify your System Administrator. | Network controller - a PostScript interpreter error has occur, caus- ing the process to fail. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. |
| 16-568-00 | Some Network Services involv- ing PCL are not available. Notify your System Administrator. | Network controller - a PCL interpreter error has occurred, causing the process to fail. | Switch the machine off then on, GP 14, to enable PCL printing. Printing can continue if other job format methods are used. |
| 16-569-00 | Network Services involving a Parallel Port are not available. Notify System Administrator. | Network controller - parallel ports are not available. | Switch the machine off then on, GP 14. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-570-00 | Some Network Services involv- ing HTTP are not available. Notify your System Administrator. | Network controller - an HTTP interpreter error has occurred, causing the process to fail. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. If the fault persists, perform the 316E Net- work Fault Checkout RAP. |
| 16-571-00 | Network Printing disabled. Notify your System Administrator. | Network controller - print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-572-00 | Network Printing disabled. Notify your System Administrator. | Network controller - print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |

| Status | | | |
|-----------|--|--|--|
| Code | UI Message | Reason for Message | Reference/Action |
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| 16-573-00 | Network Printing disabled. Notify your System Administrator. | Network controller - ESS print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-574-00 | Job queue error. Power Off then On and Notify System Adminis- trator. | ESS queue utility has failed. Only a partial list is available for display at this time. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Net- work Fault Checkout RAP. |
| 16-575-00 | The Network Controller con- nection is about to be reset. | The network controller ESS registration service process has stopped. | Automatic network controller reset. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-576-00 | The Network Controller con- nection is about to be reset. | The network controller ESS event notification service process has stopped. | Automatic network controller reset. Switch the machine off then on, GP 14. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-577-00 | The Network Controller con- nection is about to be reset. | The network controller ESS platform manager service process has stopped. | Automatic network controller reset. Machine is unavailable. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-578-00 | Incomplete system information. Power Off then On and Notify System Administrator. | The network controller ESS fault log service process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can con- tinue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-579-00 | Job Status not available. Power Off then On and Notify System Administrator. | The network controller ESS completed job log service has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-580-00 | Incomplete system information. Power Off then On and Notify System Administrator. | The network controller ESS configuration utility process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-581-00 | Some Network Diagnostic Ser- vices are not available. Notify your System Administrator. | The network controller ESS diagnostic service process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can con- tinue. If the fault persists, perform the 316E Network Fault Checkout RAP. |

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|---|--|
| 16-582-00 | Some Network Authentication Services are not available. Notify your System Administrator. | The network controller ESS authentication SPI process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-583-00 | Incomplete system information. Power Off then On and Notify System Administrator. | The network controller ESS counters utility process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. |
| 16-584-00 | The Network Controller con- nection is about to be reset. | The network controller document manager agent process has stopped. | Automatic network controller reset. Machine is unavailable. |
| 16-585-00 | Incomplete system information. Power Off then On and Notify System Administrator. | The network controller ESS configuration synchronization process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-586-00 | Incomplete system information. Power Off then On and Notify System Administrator. | The network controller agent process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-589-00 | Network Services involving a Serial Port are not available. Notify System Administrator. | The network controller serial port connectivity has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-590-00 | Network Con- nectivity Configu- ration Server not available. Notify your System Administrator. | The network controller CCS process has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-591-00 | Some Network Services involv- ing Ethernet are not available. Notify System Administrator. | Network controller Ethernet process has failed. | Check ethernet connection. Switch the machine off, then switch the machine on GP 14. Local printing can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |

Table 10 16-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|--|---|
| 16-593-00 | Some Network Services involv- ing DHCP are not available. Notify your Sys- tem Administra- tor. | Network controller - DHCP address resolu- tion has failed. | Check DHCP server network connection. Switch the machine off then on GP 14. Copying and printing with local connections can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-594-00 | Some Network Services involv- ing RARP are not available. Notify your Sys- tem Administra- tor. | Network controller - RARP address resolu- tion has failed. | Check RARP server network con- nection. Switch the machine off then on GP 14. Printing can continue with other submission methods. If the fault persists, perform the 316E Net- work Fault Checkout RAP. |
| 16-595-00 | LAN Fax Service error. Power Off then On and Notify System Administrator. | The network controller LAN fax service has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-596-00 | Some Network Accounting Services are not available. Notify your System Administrator. | Some network control- ler services are not available. | Network accounting error. User intervention is required to switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-597-00 | Some Network Services involv- ing TIFF are not available. Notify your System Administrator. | The network controller TIFF interpreter has failed. | Switch the machine off then on, GP 14. Printing can continue with other job formats. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-598-00 | Some Network Services involv- ing TCP/IP are not available. Notify your Sys- tem Administra- tor. | IP interface not configured. | Another IP address needs to be used. Switch the machine off then on, GP 14. Copy and fax services (if installed) can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 16-599-00 | Network Services with Port 9100 Process are not available. Notify System Administrator. | Raw TCP/IP printing (port 9100) process has failed. | Switch the machine off then on, GP 14. Printing can continue with other submission methods. If the fault per- sists, perform the 316E Network Fault Checkout RAP. |

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Table 10 16-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--|---|
| 16-600-00 | System Error. Power Off then On and Notify System Administrator. | Disk partition threshold has been exceeded. Performance may be degraded. | Switch the machine off then on, GP 14. Refer to the 316-718-00 to 316- 726-00 Hard Disk Faults RAP. |

Table 11 17-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|---|
| 17-510-00 | Duplicate IPv6 address detected. Recon- figure with a unique address. | Duplicate IPv6 address detected. | Reconfigure with a unique address. Switch the machine off then on, GP 14. Copy and fax services (if installed) can continue. |
| 17-512-00 | DHCPv6 ser- vices are not available. Notify your System Administrator. | DHCPv6 failure status. | Switch the machine off then on, GP 14. Printing can continue with other submission methods. |
| 17-513-00 | Duplicate IPv4 address detected. Recon- figure with a unique address. | Duplicate IPv4 address detected. | Reconfigure with a unique address. Switch the machine off then on, GP 14. |
| 17-514-00 | Unable to communicate to the attached accounting device. | External accounting device communication failure. | Administrator intervention required to check the connection to the external accounting device. |
| 17-551-00 | Server Fax Service cannot Register. Power Off then On and Notify System Administrator. | Server fax service can- not register. | Switch the machine off then on, GP 14. Server fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| 17-553-00 | Internet Fax Service cannot Register. Power Off then On and Notify System Administrator. | Internet fax service cannot register. | Switch the machine off then on, GP 14. Internet fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |

| _ | Table 11 17-5XX-XX Status codes | | | |
|----------------|---|---|---|--|
| Status Code | UI Message | Reason for Message | Reference/Action | |
| 17-554-00 | E-mail Service cannot Register. Power Off then On and Notify System Adminis- trator. | Scan to e-mail service cannot register. | Switch the machine off then on, GP 14. Scan to e-mail is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-556-00 | The Server Fax Service cannot Un-Register. Notify your Sys- tem Administra- tor. | Server fax service can- not un-register | Switch the machine off then on, GP 14. Server fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-557-00 | The Internet Fax Service cannot Un-Register. Notify your Sys- tem Administra- tor. | Internet fax service cannot un-register. | Switch the machine off then on, GP 14. Internet fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-558-00 | The E-mail Service cannot Un- Register. Notify your System Administrator. | E-mail service cannot un-register. | Switch the machine off then on, GP 14. Scan to e-mail is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-559-00 | Workflow Scan- ning Service cannot Register. Power Off then On and Notify System Adminis- trator. | Network scanning service cannot register. | Switch the machine off then on, GP 14. Scan service is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-560-00 | The Workflow Scanning Ser- vice cannot Un- Register. Notify your System Administrator. | Network scanning ser- vice cannot un-register. | Switch the machine off then on, GP 14. Scan service is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-561-00 | The Reprint Saved Jobs Service cannot Un- Register. Notify your System Administrator. | Reprint saved jobs service cannot un-register. | Switch the machine off then on, GP 14. Re-printing of saved jobs in dis- abled. If the fault persists, perform the 316E Network Fault Checkout RAP. | |

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|----------------|--|--|---|--|
| Status Code | UI Message | Reason for Message | Reference/Action | |
| 17-562-00 | No communica- tions with Xerox SMart eSolu- tions server. Contact System Administrator. | Registration with edge server fails. | User intervention is required to review SMart eSolutions settings. Machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-563-00 | No communica- tions with Xerox SMart eSolu- tions server. Contact System Administrator. | Communication with Edge server fails. | User intervention is required to review SMart eSolutions settings. Machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| 17-565-00 | Extensible Services are not responding. Power machine Off then On. | XEIP service not responding. | Switch the machine off then on, GP 14. Machine services are unaffected. | |
| 17-570-00 | - | Communication with NNTP server failed. | User intervention is required to verify network time protocol server settings, operability and machine time. Machine services are unaffected. | |
| 17-580-00 | Please wait Disk Encryption operation in progress. | Disk encryption is in progress. | No service action required, please wait for encryption to finish. | |
| 17-590-00 | Image Overwrite is in progress the machine is Offline. | Image overwrite is in progress. | No service action required, please wait for the overwrite to finish. | |
| 17-91-00 | On Demand Overwrite Failed. Perform an On Demand Over- write immedi- ately. | HDD or fax ODIO failed. | ODIO error. Administrator intervention is required to perform an ODIO immediately. Printing can continue; other machine services are unaffected. | |

Table 12 19-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|---|
| 19-502-00 | Please wait Freeing memory. | Out of memory resources. The machine has run out of image processing memory for the current job. | No user intervention required, please wait, printing will resume after memory is freed. Other machine services are unaffected. If the fault persists, perform the 319-401-00, 319-402-00 RAP. |
| 19-505-00 | Some jobs may have been deleted. | Compressor DVMA timeout. Current job has been deleted. | Confirm that UI message has been seen. Re-scan the job. If the fault persists, perform the 319-403-00 RAP. |
| 19-506-00 | Immediate Job Overwrite Failed. Perform an On Demand Over- write immedi- ately. | Immediate job over- write failed. | Administrator intervention is required to perform an ODIO immediately. Printing can continue. Other machine services are unaffected. |
| 19-507-00 | On Demand Overwrite Failed. Perform an On Demand Over- write immedi- ately. | HDD or fax ODIO failed. | ODIO error. Administrator intervention is required to perform an ODIO immediately. Printing can continue; other machine services are unaffected. |
| 19-510-00 | Please wait The system is attempting to recover. | System is attempting to recover. Image disk error. | No service action required. Printing and other machine services are unaffected. |
| 19-511-00 | Image Disk is offline. Job(s) may take longer than normal. Notify System Administrator. | Image disk unavailable. Performance is degraded. Service is required. | Switch the machine off then on, GP 14. The system is unable to read from the image disk. Jobs may take longer than normal. If the fault persists, perform the 319-300-00 to 319-310-00 RAP. |
| 19-512-00 | Image Disk offline. Power Off then On and Notify System Administrator. | The image disk cannot read or write and must be serviced. Power off/ power on will temporarily alleviate the problem. | Switch the machine off then on, GP 14. The system is unable to read from the image disk. Printing has stopped. If the fault persists, perform the 319-300-00 to 319-310-00 RAP. |
| 19-513-00 | Please wait The Image Disk is full. | The image disk is full. | Print jobs may be delayed. No service action required. The system is attempting to recover. Printing and other machine services are available. |

Table 12 19-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|--|
| 19-514-00 | All incomplete jobs have been deleted. | Video job integrity fault detected. | Video job integrity error; one or more jobs were deleted. No user intervention is required; the system has recovered. Printing and other machine services can continue. If the fault persists, perform the 319-409-00 RAP. |
| 19-550-00 | Configuration mismatch. | The single board controller cannot access the EPC memory or the image disk. | Switch the machine off then on, GP 14. Install a new memory module, PL 3.22 Item 11. Install a new hard disk drive, PL 3.22 Item 2. Install a new single board control PWB, PL 3.22 Item 3. |

Table 13 20-5XX-XX Status codes

| Status Codes | UI Message | Reason for Message | Reference/Action |
|-----------------|--|---------------------------------------|---|
| 20-544-00 | Please wait The Fax Service is initializing. | The fax service is initializing. | The fax service is re-starting. No user intervention is required. Printing and other machine services are available. |
| 20-545-00 | Fax job could not be sent at this time, please try again. | A fax job could not be sent. | Fax job could not be sent, re-try. Printing and other machine services are available. |
| 20-546-00 | Fax memory is low. Contact your System Adminis- trator. | Not enough memory to use fax service. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-323-00, 320-324-00 RAP. |
| 20-547-00 | Fax memory is low. Contact your System Adminis- trator. | Fax memory is low. | User intervention is required to delete unnecessary mailbox files or fax jobs stored for polling. Fax and LAN fax services are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-323-00, 320-324-00 RAP. |

| Status | | | |
|-----------|--|--|---|
| Codes | UI Message | Reason for Message | Reference/Action |
| 20-550-00 | Fax line 2 is unavailable. Notify your Sys- tem Administra- tor. | Extended fax card failure detected. | Switch the machine off then on, GP 14. Fax service can continue from line 1. Printing and other machine services are available. |
| 20-556-00 | Fax system error. Power Off then On and Notify System Administrator. | Fax service error. Reset fax service. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-331-00, 320- 338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |
| 20-558-00 | Fax system error. Power Off then On and Notify System Administrator. | Fax memory error. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-322-00 RAP. |
| 20-559-00 | Fax system error. Power Off then On and Notify System Administrator. | Fax service error. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-320-00 RAP. |
| 20-562-00 | Fax line 1 is unavailable. Check line con- nection Or notify your System Administrator. | No communication on fax line 1. | User intervention is required to check the external phone line connection. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |
| 20-563-00 | Fax line 2 is unavailable. Check line con- nection Or notify your System Administrator. | No communication on fax line 2. | User intervention is required to check the external phone line connection. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-327-00, 320-332-00, 320-340-00 RAP. |
| 20-565-00 | Fax job limit has been reached. Power Off then On and Notify System Adminis- trator. | All jobs IDs allocated cannot create any more. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. |

| Status | | | |
|-----------|--|---|--|
| Codes | UI Message | Reason for Message | Reference/Action |
| 20-570-00 | Fax system error. Power Off then On and Notify System Administrator. | Fax service error. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. |
| 20-571-00 | Fax system error. Power Off then On and Notify System Administrator. | Fax service error. | Fax line 1 is unavailable. Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |
| 20-572-00 | Fax line 2 is unavailable. Call for assistance. | Fax service error. Fax line 2 is unavailable. | Switch the machine off then on, GP 14. Fax and LAN fax are degraded. Printing and other machine services are unaffected. If the fault persists, perform the 320-327-00, 320-332-00, 320-340-00 RAP. |
| 20-580-00 | Fax Service is unavailable. Turn machine off, then on. | NVM values supplied by the fax are invalid. Fax NVM data error. | No service action required. Fax and LAN fax are disabled. Printing and other machine services are unaffected. |
| 20-595-00 | Fax line 1 is unavailable. Call for assistance. | Fax service error. Fax line 1 is unavailable. | Fax line 1 is unavailable. Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |

Table 14 22-5XX-XX Status codes

| Status Codes | UI Message | Reason for Message | Reference/Action |
|-----------------|---|--|--|
| 22-502-04 | Select the Cur- rent Messages button in the Machine Status for more informa- tion. | been produced. | Go to the Status screen and select the Faults tab. Select the Active Messages button and perform the action appropriate to the message. |
| 22-503-04 | All incomplete jobs have been deleted. | System error. Jobs have been lost and must be resubmitted. | No user intervention is required. Machine is temporarily unavailable. |

| Status Codes | UI Message | Reason for Message | Reference/Action |
|-----------------|--|---|---|
| 22-503-05 | The number of originals was less than the number originally scanned. | Job recovery error. The number of originals reloaded does not match the number originally scanned. | Perform the 305-941-00 RAP. |
| 22-504-04 | No tray is configured with the required paper size. | No paper tray is configured to run the stock size required for this job. | Print and copy services are disabled, other machine services are unaffected Job must be deleted. Paper tray must be configured to match the job. If the fault persists, perform the 322-310-04 to 322-318-04 RAP. |
| 22-504-05 | Invalid original size detected. It will be treated as the next largest standard size. | Invalid mixed size original pair detected. | Ensure the originals are not creased or folded If the fault persists, perform the 305A RAP. |
| 22-504-16 | Auto configuration is disabled. | Non customer mode. Auto configuration is disabled. Wait for machine to exit diag- nostics mode. The machine is unavailable. | Enter customer mode. Enter dC131 Read/Write and check that NVM ID 616-014 = 4. |
| 22-505-00 | Remove docu- ments from the Document Feeder Input Tray or close the Document Feeder. | Documents sensed in the SPDH tray during IIT standby and docu- ment handler cover is open. | To scan from the document glass, remove documents in the document feeder input tray. To use the document feeder to scan your documents, lower the document feeder. |
| 22-505-17 | Machine is in a non-customer mode. | Machine is in a non- customer mode. | Enter customer mode. Enter dC131 Read/Write and check that NVM ID 616-014 = 4. |
| 22-506-17 | Auto configura- tion is disabled. | Machine is in a non- customer mode. | Enter customer mode. Enter dC131 Read/Write and check that NVM ID 616-014 = 4. |
| 22-507-05 | The document size was different than expected. The job has been deleted. | Document is larger than expected. | Try one of the following: Select mixed size originals and reload into the document feeder or ensure the originals are not creased or folded and retry from the document glass. If the fault persists, perform the 305A RAP. |

| Status Codes | UI Message | Reason for Message | Reference/Action |
|-----------------|--|--|--|
| 22-508-04 | Scanning will be delayed. | Scan startup delayed whilst awaiting resources. | No user intervention is required. Job will begin when system is ready. If the fault persists, perform the 322-330-06 RAP. |
| 22-511-04 | Paper required for the current job is not available. | Media required for current marking job is not loaded. | Load the correct paper to complete the held job or cancel the held job. Other machine services are unaffected. |
| 22-512-04 | Auto Paper Select is not available. | All trays direct select only. | System Administrator intervention is required to enable at least 1 tray for auto select. Printing and copying can continue without auto select, other machine services are unaffected. |
| 22-513-04 | One or more queued jobs need resources. | One or more queued jobs in the system are being held due to lack of resources. | Add paper to the tray being used to clear queued job. Jobs will be held until resources become available. Other machine services are unaffected. |
| 22-515-04 | One or more queued jobs need resources. | One or more queued jobs in the system is being held. | Add paper to the tray being used to clear queued job. |
| 22-557-00 | Configuration Parameter error. | Serial number sync fail- ure, power on failed. | Switch the machine off then on, GP 14. Go to dC132, check the serial number is correct. Enter dC131 NVM ID 616-003, check the machine configuration. Perform the 303-405-00, 303-406-00 RAP. |
| 22-559-00 | Inserted SIM is incompatible. Replace with a compatible SIM. | SIM card serial num- ber does not match machine serial number. | Perform the 303-405-00, 303-406- 00 RAP. |
| 22-563-00 | System Error. Power Off then On and Notify System Administrator. | Incomplete system information. | Switch the machine off then on, GP 14. |
| 22-566-00 | The Fax Service cannot Register. Notify your System Administrator. | Fax service cannot register. | Switch the machine off then on, GP 14. Fax and LAN Fax are disabled. Other machine services are unaffected. If the fault persists, perform the 322-371-00, 322-372-00 RAP. |

Table 14 22-5XX-XX Status codes

| Status | | | |
|-----------|---|---|---|
| Codes | UI Message | Reason for Message | Reference/Action |
| 22-567-00 | The Fax Service cannot Un-Register. Notify your System Administrator. | Fax service cannot un- register. | Switch the machine off then on, GP 14. All machine services are dis- abled. If the fault persists, perform the 322-371-00, 322-372-00 RAP. |
| 22-568-00 | - | Status requiring POPO detected and autoreset count less than 2. | The system will try to power off then on twice before asking for assistance. |
| 22-572-00 | SIM Insertion Required. Notify System Adminis- trator. | Speed not set on IOT. Either the machine has not yet received a SIM, or the settings have been corrupted. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-405-00, 303-406-00 RAP. |
| 22-580-00 | Register for your Supplies Plan. | Service plan registration alert. | Perform the 322-360-00 RAP. |
| 22-581-00 | Enter an Activa- tion Code for print services to become avail- able. | Service plan is undeter- mined. | Perform the 322-360-00 RAP. |
| 22-582-00 | Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | Service plan registra- tion warning. | Enter the registration code. |
| 22-583-00 | Contact System Administrator to enter activation code. | Service plan registration expiration warning. | Enter the registration code. |
| 22-584-00 | Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | Service plan registration expired. | Enter the registration code. |
| 22-585-00 | The device is not available. | Recovery mechanism has restored a lost parameter. | Switch the machine off, then on, GP 14. |

Table 15 41-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--|---|
| 41-501-00 | System Error. Power Off then On and Notify System Administrator. | The CRUMs bus communications have been disrupted by internal electronic noise. | Switch the machine off, then on, GP 14. If the fault persists, perform the 341-301 RAP. |

Table 16 6X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|-------------------|--------------------|--|
| 61-100-00 | transfer failure. | PH data does not | Switch the machine off, then on, GP 14. If the fault persists, perform the 361-100-00 RAP. |

Table 17 7X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--------------------------------|--|
| 71-301-00 | Check paper and close the tray. | Dedicated tray 1 is open. | Close the tray. If the fault persists, perform the 371-500-00 RAP. |
| 71-302-00 | Check paper and close the tray. | Adjustable tray 1 is open. | Close the tray. If the fault persists, perform the 371-500-00 RAP. |
| 71-313-00 | Tray 1 is not available. Notify your System Administrator. | Mechanical failure for tray 1. | Switch the machine off, then on, GP 14. |
| 71-530-00 | Tray1 is empty. Add paper. | Tray 1 out of media. | Add paper to tray 1. If the fault persists, perform the 371A RAP. |
| 71-536-00 | Tray 1 lifting. | Tray 1 lifting. | No service action required. Print and copy services can continue from other rays if the correct media is available. If the fault persists, perform the 371-100-00, 371-217-00 RAP. |
| 72-301-00 | Check paper and close the tray. | Dedicated tray 2 is open. | Close the tray. If the fault persists, perform 372-500-00 RAP. |
| 72-302-00 | Check paper and close the tray. | Adjustable tray 2 is open. | Close the tray. If the fault persists, perform 372-500-00 RAP. |

Table 17 7X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--------------------------------|---|
| 72-313-00 | Tray 2 is not available. Notify your System Administrator. | Mechanical failure for tray 2. | Switch the machine off, then on, GP 14. |
| 72-530-00 | Tray 2 is empty. Add paper. | Tray 2 out of media. | Add paper to Tray 2. If the fault persists, perform the 371A RAP. |
| 72-536-00 | Tray 2 lifting. | Tray 2 lifting. | No service action required. Print and copy services can continue from other trays if the correct media is available. If the fault persists, 372-100-00, 372-217-00 RAP. |
| 73-301-00 | Check paper and close the tray. | Dedicated tray 3 is open. | Close the tray. If the fault persists, perform the 373-500-00 RAP. |
| 73-313-00 | Tray 3 is not available. Notify your System Administrator. | Mechanical failure for tray 3. | Switch the machine off, then on, GP 14. |
| 73-530-00 | Tray 3 is empty. Add paper. | Tray 3 out of media. | Add paper to tray 3. If the fault persists, perform the 373B RAP. |
| 73-536-00 | Tray 3 lifting. | Tray 3 lifting. | Print and copy services can continue from other trays if the correct media is available. If the fault persists, perform the 373-100-00, 373-217-00 RAP. |
| 74-102-00 | Misfeed in Tray 4. | Misfeed in tray 4. | Clear the paper jam. |
| 74-115-00 | Misfeed in Tray 4. | Paper jam in tray 4. | Clear the paper jam. |
| 74-116-00 | Misfeed in Tray 4. | Paper over HCF exit sensor. | Clear the paper jam. |
| 74-301-00 | Check paper and close the tray. | Tray 4 is open. | Close tray 4. |
| 74-313-00 | Tray 4 is not available. Notify your System Administrator. | Mechanical failure for tray 4. | Switch the machine off, then on, GP 14. |
| 74-530-00 | Tray 4 is empty. Add paper | Tray 4 out of media. | Add paper to tray 4. If the fault persists, perform the 374B RAP. |
| 74-536-00 | Tray 4 lifting. | Tray 4 lifting. | Print and copy services can continue from other trays if the correct media is available. If the fault persists, perform the 374-100-00, 374-217-00 RAP. |

Table 17 7X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|--|--|
| 75-150-00 | Tray 5 is not available. Empty and reload. | A paper jam has occurred after feeding from the bypass tray. | Remove, then reload the media in the bypass tray. |
| 75-313-00 | Tray 5 is not available. Notify your System Administrator. | Mechanical failure of the bypass tray. | Switch the machine off, then on, GP 14. If the fault persists, perform the 375A RAP. |
| 75-530-00 | Tray 5 is empty. Add paper. | The bypass tray is out of media. | Add paper to the bypass tray. If the fault persists, perform the 375A RAP. |

Table 18 8X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|--|---|---|
| 81-200-00 | Paper Jam behind the Left Side Door. | Jam in left door when sheets fed from trays 1- 5. | Clear the jam in the left door. |
| 81-200-01 | Paper Jam behind the Left Side Door. | Jam in left door when sheets fed from trays 1-5. | Clear the jam in the left door. |
| 81-201-00 | Misfeed in Tray 1. | Misfeed in tray 1. | Clear the paper jam in tray 1. |
| 81-201-01 | Misfeed in Tray 1. | Misfeed in tray 1. | Clear the paper jam in tray 1. |
| 81-202-00 | Misfeed in Tray 2. | Misfeed in tray 2. | Clear the paper jam in tray 2. |
| 81-202-01 | Misfeed in Tray 2. | Misfeed in tray 2. | Clear the paper jam in tray 2. |
| 81-203-00 | Misfeed in Tray 3. | Misfeed in tray 3. | Paper jam behind the Left Side Door. |
| 81-203-01 | Misfeed in Tray 3. | Misfeed in Tray 3. | Clear the paper jam in tray 3. |
| 81-204-00 | Misfeed in Tray 4. | Misfeed in tray 4. | Paper jam behind the Left Side Door. |
| 81-220-00 | Please wait Adjustments are in progress. | Post jam clearance initialisation. | No service action required, please wait. If the fault persists, switch the machine off, then on, GP 14. |

Table 19 Chain 9X-5XX-XX Status codes

| Status Code | UI Message | Reason for Message | Reference/Action |
|----------------|---|--|---|
| 91-366-00 | IOT Environmental Temperature out of limits. | IOT humidity sensor Averaged reading out of limits. | Perform the 391-375-00 RAP. |
| 91-376-00 | IOT Environmental Humidity out of limits. | IOT temperature sensor averaged reading out of limits. | Perform the 391-365-00 RAP. |
| 91-378-00 | Please waitPrint Engine cooling in progress. | Print cartridge cooling event. IOT temperature is above print cartridge temperature upper threshold. | Perform the 391-377-00 Print Cartridge Cooling Failure RAP. |
| 91-400-00 | Please wait Print Engine cooling in progress. | Print cartridge cooling fan is on. | No service action required. |

OF4b Status Messages in Alphabetical Order

Status Message Tables

The status message tables contain all the messages to which a status code can be attributed.

- Table 1 Status Messages 1 to 9 and A to F.
- Table 2 Status Messages G to N.
- Table 3 Status Messages O to R.
- Table 4 Status Messages S to X.

Table 1 Status messages A to F

| | Status | | |
|--|-----------|--|---|
| UI Message | Code | Reason for Message | Reference/Action |
| A Fax Service error has occurred. Power Off then On. | 03-547-00 | Basic Fax not detected or confirmed. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. |
| A Fax service error has occurred. Power Off then On. | 03-550-00 | Fax card is unavailable. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. |
| A Fax service error has occurred. Power Off then On. | 03-551-00 | The fax service is unavailable. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. |
| Accounting out of memory. Notify your System Administrator. | 16-551-00 | Network controller - accounting log is full or a hard disk full state exists. | Accounting Administrator needs to retrieve accounting data log from the system |
| Additional memory is required to support Scan to File. Notify your System Administrator. | 16-553-00 | Network controller - not enough physical mem- ory is configured on the platform to support scan to file. | Switch the machine off then on, GP 14. Hardware must be added or replaced. |
| All incomplete jobs have been deleted. | 19-514-00 | Video job integrity fault detected. | Video job integrity error; one or more jobs were deleted. No user intervention is required; the system has recovered. Printing and other machine services can continue. If the fault persists, perform the 319-409-00 RAP |
| All incomplete jobs have been deleted. | 22-503-04 | System error. Jobs have been lost and must be resubmitted. | No user intervention is required. Machine is temporarily unavailable. |

Table 1 Status messages A to F

| UI Message | Status Code | Reason for Message | Reference/Action |
|--|----------------|---|--|
| Auto configuration is disabled. | 22-504-16 | Non customer mode. Auto configuration is disabled. Wait for machine to exit diag- nostics mode. The machine is unavailable. | Enter customer mode. Enter dC131 Read/Write and check that NVM ID 616-014 = 4. |
| Auto configuration is disabled. | 22-506-17 | Machine is in a non- customer mode. | Enter customer mode Enter dC131 Read/Write and check that NVM ID 616-014 = 4. |
| Auto Paper Select is not available. | 22-512-04 | All trays direct select only. | System Administrator intervention is required to enable at least 1 tray for auto select. Printing and copying can continue without auto select, other machine services are unaffected. |
| Autonet functions are not available. Notify your System Administrator. | 16-508-00 | Autonet is not available. | Switch the machine off then on, GP 14. Printing can continue if other network protocols are used. |
| Booklet Maker Staple Cartridges (R8) are nearly empty. Make sure you have replacements. | 12-642-00 | Booklet maker staple cartridges (R8) are nearly empty. | The booklet maker staple cartridge supplies are low. Order a staple cartridge, PL 12.365 Item 7 for the LVF BM. |
| Booklet Stapler not available. Power Off then On and Notify System Adminis- trator. | 12-720-00 | Booklet making unavailable. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. If the fault persists, perform the 312-352-00- 150, 312-353-00-150 RAP. |
| Booklet Stapler not available. Power Off then On and Notify System Adminis- trator. | 12-726-00 | Failure of the booklet maker stapling functions. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. If the fault persists, perform the 312-352-00- 150, 312-353-00-150 RAP. |
| Centre Tray Off- setting is not available. Power Off then On and Notify System Administrator. | 10-702-00 | Offset motor offset fail. | Switch the machine off then on, GP 14. |

Table 1 Status messages A to F

| | Status | able 1 Status messages | |
|--|-----------|--|---|
| UI Message | Code | Reason for Message | Reference/Action |
| Check Fuser is inserted correctly. | 10-547-00 | IOT is unable to read from the fuser CRUM. The fuser module is missing or not installed correctly. | Ensure the fuser module is correctly installed. If necessary, switch the machine off, GP 14. Re-install the fuser then switch the machine on. |
| Check paper and close the tray. | 71-301-00 | Dedicated tray 1 is open. | Close the tray. If the fault persists, perform the 371-500-00 RAP. |
| Check paper and close the tray. | 71-302-00 | Adjustable tray 1 is open. | Close the tray. If the fault persists, perform the 371-500-00 RAP. |
| Check paper and close the tray. | 72-301-00 | Dedicated tray 2 is open. | Close the tray. If the fault persists, perform 372-500-00 RAP. |
| Check paper and close the tray. | 72-302-00 | Adjustable tray 2 is open. | Close the tray. If the fault persists, perform 372-500-00 RAP. |
| Check paper and close the tray. | 73-301-00 | Tray 3 is open. | Close the tray. If the fault persists, perform the 373-500-00 RAP. |
| Check paper and close the tray. | 74-301-00 | Tray 4 is open. | Close tray 4. |
| Check Print Cartridge is inserted correctly. | 10-548-00 | Print cartridge is missing or CRUM communications problems. The print cartridge is missing or not installed correctly. | Ensure the print cartridge is correctly installed. If necessary, switch the machine off, GP 14. Re-install the print cartridge, then switch the machine on. |
| Check the set- tings for tray 1. | 01-540-01 | Paper removed or added to tray 1. | Confirm the tray 1 settings. |
| Check the set- tings for tray 2. | 01-540-02 | Paper removed or added to tray 2. | Confirm the tray 2 settings. |
| Check the set- tings for tray 5. | 01-540-05 | Paper removed or added to the bypass tray. | Confirm the bypass tray settings. |
| Close finisher top cover. | 12-602-00 | The 2K LCSS top cover is open. | Close the finisher top cover. If the fault persists, perform the 312-310-00-110, 312-312-00-110, 312-313-00-110 RAP. |
| Close finisher top cover. | 12-602-03 | The LVF BM top cover is open. | Close the finisher top cover. If the fault persists, perform the 312-310-00-150, 312-312-00-150, 312-313-00-150 RAP. |
| Configuration mismatch. | 19-550-00 | The single board controller cannot access the EPC memory or the image disk. | Switch the machine off then on, GP 14. Install a new memory module, PL 3.22 Item 11. Install a new hard disk drive, PL 3.22 Item 2. Install a new single board control PWB, PL 3.22 Item 3. |

Table 1 Status messages A to F

| UI Message | Status Code | Reason for Message | Reference/Action |
|---|----------------|---|--|
| Configuration Parameter error. | 22-557-00 | Serial number sync fail- ure, power on failed. | Switch the machine off then on, GP 14. Go to dC132, check the serial number is correct. Enter dC131 NVM ID 616-003, check the machine configuration. Perform the 303-405-00, 303-406-00 RAP. |
| Contact System Administrator to enter activation code. | 22-583-00 | Service plan registration expiration warning. | Enter the registration code. |
| DHCPv6 ser- vices are not available. Notify your System Administrator. | 17-512-00 | DHCPv6 failure status. | Switch the machine off then on, GP 14. Printing can continue with other submission methods. |
| Duplicate IPv4 address detected. Recon- figure with a unique address. | 17-513-00 | Duplicate IPv4 address detected. | Reconfigure with a unique address. Switch the machine off then on, GP 14. |
| Duplicate IPv6 address detected. Recon- figure with a unique address. | 17-510-00 | Duplicate IPv6 address detected. | Reconfigure with a unique address. Switch the machine off then on, GP 14. Copy and fax services (if installed) can continue. |
| E-mail Service cannot Register. Power Off then On and Notify System Adminis- trator. | 17-554-00 | Scan to e-mail service cannot register. | Switch the machine off then on, GP 14. Scan to e-mail is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Empty the Hole Punch Waste Container. | 12-649-00 | The hole punch chad bin is full and needs emptying. | Hole punch waste container is full, jobs requesting hole punching will be held. Empty the chad bin. |
| Empty the Hole Punch Waste Container. | 12-649-01 | The hole punch chad bin is full and needs emptying. | Hole punch waste container is full, jobs requesting hole punching will be held. Empty the chad bin. |
| Ensure network cables are properly connected. | 16-544-00 | An ethernet cable is unplugged. | Ensure cables are properly connected. |

Table 1 Status messages A to F

| | Status | | |
|---|-----------|--|--|
| UI Message | Code | Reason for Message | Reference/Action |
| Ensure the USB Wireless Net- work Interface is properly con- nected. | 16-540-00 | USB wireless network not connected. | Perform the 316D RAP. |
| Enter an Activa- tion Code for print services to become avail- able. | 22-581-00 | mined. | Perform the 322-360-00 RAP. |
| Enter your access code or the current job may be deleted. | 03-559-02 | Walk up code entered FDI. Not defined. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| Extensible Services are not responding. Power machine Off then On. | 17-565-00 | XEIP service not responding. | Switch the machine off then on, GP 14. Machine services are unaffected. |
| Extensible Services not available Power Off then On and Notify System Administrator. | 02-521-00 | XEIP browser is dead. | Perform the 302-321-00 RAP. |
| Fax job could not be sent at this time, please try again. | 20-545-00 | A fax job could not be sent. | Fax job could not be sent, re-try. Printing and other machine services are available |
| Fax job limit has been reached. Power Off then On and Notify System Adminis- trator. | 20-565-00 | All jobs IDs allocated cannot create any more. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. |
| Fax line 1 is unavailable. Call for assistance. | 20-595-00 | Fax service error. Fax line 1 is unavailable. | Fax line 1 is unavailable. Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |

| Ciation Cuatus incosuges A to 1 | | | | |
|--|----------------|---|---|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Fax line 1 is unavailable. Check line con- nection Or notify your System Administrator. | 20-562-00 | No communication on fax line 1. | User intervention is required to check the external phone line connection. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. | |
| Fax line 2 is unavailable. Call for assistance. | 20-572-00 | Fax service error. Fax line 2 is unavailable. | Switch the machine off then on, GP 14. Fax and LAN fax are degraded. Printing and other machine services are unaffected. If the fault persists, perform the 320-327-00, 320-332-00, 320-340-00 RAP. | |
| Fax line 2 is unavailable. Check line con- nection Or notify your System Administrator. | 20-563-00 | No communication on fax line 2. | User intervention is required to check the external phone line connection. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-327-00, 320-332-00, 320-340-00 RAP. | |
| Fax line 2 is unavailable. Notify your Sys- tem Administra- tor. | 03-548-00 | Extended fax not detected or confirmed. | Check the fax line connection. If the fault persists, perform the 303-401-00, 303-403-00 RAP. | |
| Fax line 2 is unavailable. Notify your Sys- tem Administra- tor. | 20-550-00 | Extended fax card failure detected. | Switch the machine off then on, GP 14. Fax service can continue from line 1. Printing and other machine services are available | |
| Fax memory error. Power Off then On and Notify System Administrator | 03-549-00 | Fax POST failure status. | Switch the machine off, then on GP 14. If the fault persists, perform the 303-401-00, 303-403-00 RAP. | |
| Fax memory is low. Contact your System Adminis- trator. | 20-546-00 | Not enough memory to use fax service. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-323-00, 320-324-00 RAP | |

| UI Message | Status Code | Reason for Message | Reference/Action |
|--|----------------|---|---|
| Fax memory is low. Contact your System Adminis- trator. | 20-547-00 | Fax memory is low. | User intervention is required to delete unnecessary mailbox files or Fax jobs stored for polling. Fax and LAN fax services are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-323-00, 320-324-00 RAP. |
| Fax Service is unavailable. Turn machine off, then on. | 20-580-00 | NVM values supplied by the fax are invalid. Fax NVM data error. | No service action required. Fax and LAN fax are disabled. Printing and other machine services are unaffected. |
| Fax system error. Power Off then On and Notify System Administrator. | 20-556-00 | Fax service error. Reset fax service. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-331-00, 320- 338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |
| Fax system error. Power Off then On and Notify System Administrator. | 20-558-00 | Fax memory error. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-322-00 RAP. |
| Fax system error. Power Off then On and Notify System Administrator. | 20-559-00 | Fax service error. | Fax and LAN fax are disabled. Switch the machine off then on, GP 14. Printing and other machine ser- vices are unaffected. If the fault per- sists, perform the 320-320-00 RAP. |
| Fax system error. Power Off then On and Notify System Administrator. | 20-570-00 | Fax service error. | Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. |
| Fax system error. Power Off then On and Notify System Administrator. | 20-571-00 | Fax service error. | Fax line 1 is unavailable. Switch the machine off then on, GP 14. Fax and LAN fax are disabled. Printing and other machine services are unaffected. If the fault persists, perform the 320-331-00, 320-338-00, 320-339-00, 320-341-00, 320-345-00 RAP. |

Table 1 Status messages A to F

| Status | | | | |
|--|-----------|--|---|--|
| UI Message | Code | Reason for Message | Reference/Action | |
| Finisher Commu- nications Error. Check Cabling. Power Off then On. | 12-762-00 | Communication failure between SBC and finisher. | Switch the machine off then on, GP 14. Check the finisher communication harness. If the fault persists, perform the 303-360-00, 303-800-00 RAP. | |
| Finisher is not docked. Re-dock finisher now. | 12-600-00 | The 2K LCSS is not correctly docked. Printing has stopped. | Dock the output module. If the fault persists, perform the 312-310-00-110, 312-312-00-110, 312-313-00-110 RAP. | |
| Finisher is not docked. Re-dock finisher now. | 12-600-03 | The LVF BM is not correctly docked. Printing has stopped. | Dock the output module. If the fault persists, perform the 312-310-00-150, 312-312-00-150, 312-313-00-150 RAP. | |
| Finisher Main Tray is full. | 12-730-00 | The stacker tray is full (LVF BM and 2K LCSS). | The middle output bin is full. This output bin needs to be unloaded. Printing to this output bin is disabled. | |
| Finisher Main Tray is nearly full. | 12-734-00 | Stacker tray bin is nearly full. | No action necessary. | |
| Finisher Main Tray is out of service. Power Off then On and Notify System Administrator. | 12-665-00 | Bin 1 out of service status. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. | |
| Finisher Main Tray out of ser- vice. Check for obstructions in the Main Tray. | 12-902-00 | The finisher is in degraded mode, stacker tray is out of service. | Switch the machine off then on, GP 14. Check for obstructions in the tray. | |
| Finisher Top Tray is full. Empty Top Tray. | 12-692-00 | The finisher top tray is full. | Empty the top tray. | |
| Finisher Top Tray is nearly full. | 12-729-00 | The finisher top output bin is nearly full | The top output bin is nearly full. This output bin may need to be unloaded soon. Printing can continue. | |
| Fuser tempera- ture control fail- ure. | 10-506-00 | Fuser is above maximum fuser operating temperature - shutdown requested. | Printing may be delayed. No user intervention required. | |

Table 2 Status messages G to N

| | Status | | |
|--|-----------|---|--|
| UI Message | Code | Reason for Message | Reference/Action |
| Hole punch not detected (Missing). Please insert the hole punch. | 12-640-00 | The finisher punch unit is missing or incorrectly installed. | Ensure that the punch unit is correctly installed. |
| Hole Punching is unavailable. Check for obstructions in the hole puncher. | 12-908-00 | The finisher hole punch head motor has failed. | Clear the paper jam. Switch the machine off then on, GP 14. If the fault persists, perform 312-043-00-110, 312-046-00-150, 312-046-00-150 RAP for the LVF BM. |
| Hole punching not available. Power Off then On and Notify System Adminis- trator. | 12-579-00 | Hole punching is not available. | Check that the hole punch unit is correctly installed. Switch the machine off then on, GP 14. If the fault persists, perform the 312-043-00-150, 312-046-00-150 RAP for the LVF, 312-043-00-110, 312-046-00-110 for the 2K LCSS. |
| Image Disk is offline. Job(s) may take longer than normal. Notify System Administrator. | 19-511-00 | Image disk unavailable. Performance is degraded. Service is required. | The system is unable to read from the image disk. Jobs may take longer than normal. Perform the 319-300-00 to 319-310-00 RAP. |
| Image Disk offline. Power Off then On and Notify System Administrator. | 19-512-00 | The image disk cannot read or write and must be serviced. Power off/ power on will temporarily alleviate the problem. | The system is unable to read from the image disk. Printing has stopped. Perform the 319-300-00 to 319-310-00 RAP. |
| Image Overwrite is in progress the machine is Offline. | 17-590-00 | Image overwrite is in progress. | No service action required, please wait for the overwrite to finish. |
| Image Rotation is not available. Power off then on and notify System Adminis- trator. | 03-564-00 | Image rotation is not available. | Switch the machine off then on, GP 14. |
| Immediate Job Overwrite Failed. Perform an On Demand Over- write immedi- ately. | 16-535-00 | Immediate job over- write failed. | Immediate job overwrite failed. Administrator intervention is required to perform an ODIO imme- diately. |

| | Table 2 Status messages G to N | | | |
|--|--------------------------------|---|--|--|
| | Status | B | Defense of Action | |
| UI Message | Code | Reason for Message | Reference/Action | |
| Immediate Job Overwrite Failed. Perform an On Demand Over- write immedi- ately. | 19-506-00 | Immediate job over- write failed. | Administrator intervention is required to perform an ODIO immediately. Printing can continue. Other machine services are unaffected. | |
| Incompatible Fax software detected (upgrade required) | 03-546-00 | Incompatible fax soft- ware detected at power on. | The embedded fax software version is incompatible with the system. A software upgrade should be performed, GP 4. Refer to the 303-417-00 RAP. | |
| Incompatible or unknown Fin- isher detected. Check Finisher compatibility. | 12-765-00 | The SBC interface indicates that the finisher is incompatible/unknown. | Switch the machine off then on, GP 14. Check the finisher communication harness. | |
| Incompatible Fuser Module. Contact your System Administrator. | 10-537-00 | Fuser module is not compatible with the device. | Check the market region of the machine, dC134. Install the correct fuser, PL 10.8 Item 1. | |
| Incompatible Print Cartridge. Contact your System Administrator. | 09-677-00 | The print cartridge in the machine is metered. The machine is sold. This is an incompatible combination that results in revenue loss. | Install a correct print cartridge. If the fault persists, perform the 392-399-00 RAP. | |
| Incomplete system information. Power Off then On and Notify System Administrator. | 16-578-00 | The network controller ESS fault log service process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Incomplete system information. Power Off then On and Notify System Administrator. | 16-580-00 | The network controller ESS configuration utility process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Incomplete system information. Power Off then On and Notify System Administrator. | 16-583-00 | The network controller ESS counters utility process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. | |

| Table 2 Status messages G to N | | | |
|---|----------------|---|---|
| UI Message | Status Code | Reason for Message | Reference/Action |
| Incomplete system information. Power Off then On and Notify System Administrator. | 16-585-00 | The network controller ESS configuration synchronization process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Incomplete system information. Power Off then On and Notify System Administrator. | 16-586-00 | The network controller agent process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Inserted SIM is incompatible. Replace with a compatible SIM. | 22-559-00 | SIM card serial num- ber does not match machine serial number. | Perform the 303-405-00, 303-406- 00 RAP. |
| Insufficient memory for Fax job. Notify your System Administrator. | 16-555-00 | Network controller - not enough physical mem- ory is configured on the platform to support LAN fax. | Additional memory required to support fax. The fax service is not available. Switch the machine off then on, GP 14. |
| Internet Fax Service cannot Register. Power Off then On and Notify System Administrator. | 17-553-00 | Internet fax service cannot register. | Switch the machine off then on, GP 14. Internet fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Invalid original size detected. It will be treated as the next largest standard size. | 22-504-05 | Invalid mixed size original pair detected. | Ensure the originals are not creased or folded If the fault persists, perform the 305A RAP. |
| IOT Environmental Humidity out of limits. | 91-376-00 | IOT temperature sensor averaged reading out of limits. | Perform the 391-365-00 RAP. |
| IOT Environmental Temperature out of limits. | 91-366-00 | IOT humidity sensor averaged reading out of limits. | Perform the 391-375-00 RAP. |
| Jam in Horizon- tal Transport. | 10-200-00 | Jam in the horizontal transport. Includes sheets covering sen- sors or late to sensors. | Clear the jam. If the fault persists, perform the 310-170-00 or 310-171-00 RAP. |
| Jam in Horizon- tal Transport. | 12-595-00 | Paper covering the horizontal transport sensor. | Clear the jam. If the fault persists, perform the 310-170-00 or 310-171-00 RAP. |

| | Table 2 Status Messages G to N | | | |
|--|--------------------------------|--|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Job stuck waiting to print. | - | Software error. | Switch the machine off then on, GP 14. | |
| Job stuck paused. | - | Software error. | Switch the machine off then on, GP 14. | |
| Job stuck scan- ning. | - | Software error. | Switch the machine off then on, GP 14. | |
| Job queue error. Power Off then On and Notify System Adminis- trator. | 16-574-00 | ESS queue utility has failed. Only a partial list is available for display at this time. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Net- work Fault Checkout RAP. | |
| Job Status not available. Power Off then On and Notify System Administrator. | 16-579-00 | The network controller ESS completed job log service has stopped. | Switch the machine off then on, GP 14. Printing and scanning can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| LAN Fax Service error. Power Off then On and Notify System Administrator. | 16-595-00 | The network controller LAN fax service has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Machine configuration locked. | 03-601-00 | Displayed when the machine speed is invalid. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-405-00, 303-406-00 RAP. | |
| Machine entering SW upgrade mode. ALL jobs will be cancelled. | 16-550-00 | Machine entering SW upgrade mode - all jobs will be canceled. | The machine entered a software upgrade mode (all jobs will be deleted). No user intervention is required. Machine services are unavailable until the software upgrade process has completed. | |
| Machine is in a non-customer mode. | 22-505-17 | Machine is in a non- customer mode. | Enter customer mode Enter dC131 Read/Write and check that NVM ID 616-014 = 4. | |
| Machine power on failed. Power Off then On and Notify System Administrator. | 02-590-00 | Configurable services are not stable at power on. | Switch the machine off then on, GP 14. If the fault persists, perform the 302-390-00 RAP. | |
| Misfeed in the Document Feeder. | 05-330-00 | Jam in document feeder, feed sensor covered. | Perform the 305-962-00 RAP. | |
| Misfeed in the Document Feeder. | 05-335-00 | Jam in document feeder, takeaway sensor covered. | Perform the 305-335-00, 305-336- 00 RAP. | |

| Table 2 Status messages G to N | | | |
|---------------------------------------|----------------|---|--|
| UI Message | Status Code | Reason for Message | Reference/Action |
| Misfeed in the Document Feeder. | 05-340-00 | Jam in document feeder, reg sensor covered. | Perform the 305-340-00, 305-341- 00 RAP. |
| Misfeed in the Document Feeder. | 05-343-00 | Jam in document feeder, side 2 reg sensor covered. | Perform the 305-342-00, 305-343- 00 RAP. |
| Misfeed in the Document Feeder. | 05-344-00 | Jam in document feeder, calibration home sensor covered. | Perform the 305-959-00 RAP. |
| Misfeed in the Document Feeder. | 05-361-00 | Jam in document feeder, feed sensor and takeaway sensor cov- ered. | Open the top cover, remove any documents. As necessary, perform the 305-962-00 and 305-335-00, 305-336-00 RAPs. |
| Misfeed in the Document Feeder. | 05-362-00 | Jam in document feeder, feed, takeaway, reg or side 2 reg sensor covered. | Open the top cover, remove any documents. As necessary, perform the 305-962-00, 305-335-00, 305-336-00, 305-340-00, 305-341-00 or 305-342-00, 305-343-00 RAP. |
| Misfeed in the Document Feeder. | 05-363-00 | Jam in document feeder, reg sensor and side 2 reg sensor cov- ered. | Remove any documents. As necessary, perform the 305-340-00, 305-341-00 and 305-342-00, 305-343-00 RAP. |
| Misfeed in the Document Feeder. | 05-570-00 | Reload originals to start job recovery following a jam in the document feeder. | Remove any documents. Re-order and reload originals. As necessary, perform the 305-335-00, 305-336- 00, 305-340-00, 305-341-00 or 305- 342-00, 305-343-00 RAP. |
| Misfeed in Tray 1. | 81-201-00 | Misfeed in tray 1. | Clear the paper jam in tray 1. |
| Misfeed in Tray 1. | 81-201-01 | Misfeed in tray 1. | Clear the paper jam in tray 1. |
| Misfeed in Tray 2. | 81-202-00 | Misfeed in tray 2. | Clear the paper jam in tray 2. |
| Misfeed in Tray 2. | 81-202-01 | Misfeed in tray 2. | Clear the paper jam in tray 2. |
| Misfeed in Tray 3. | 81-203-00 | Misfeed in tray 3. | Paper jam behind the Left Side Door. |
| Misfeed in Tray 3. | 81-203-01 | Misfeed in tray 3. | Clear the paper jam in tray 3. |
| Misfeed in Tray 4. | 81-204-00 | Misfeed in tray 4. | Paper jam behind the Left Side Door. |
| Misfeed in Tray 4. | 74-102-00 | Misfeed in tray 4. | Clear the paper jam. |
| Misfeed in Tray 4. | 74-115-00 | Paper jam in tray 4. | Clear the paper jam. |

| | Control | | | |
|---|----------------|--|---|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| _ | | | | |
| Misfeed in Tray 4. | 74-116-00 | Paper over HCF exit sensor. | Clear the paper jam. | |
| Network Con- nectivity Configu- ration Server not available. Notify your System Administrator. | 16-590-00 | The network controller CCS process has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Control- ler error. Some Network Ser- vices not avail- able. Notify System Adminis- trator. | 16-536-00 | The XSA service is unavailable. Network controller error. | Switch the machine off then on, GP 14. | |
| Network Control- ler not available. Power Off then On and Notify System Adminis- trator | 03-518-00 | The network controller is not available. | Perform the 303-331-00, 303-332- 00 RAP. | |
| Network Printing disabled. Notify your System Administrator. | 16-571-00 | Network controller - print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Printing disabled. Notify your System Administrator. | 16-572-00 | Network controller - print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Printing disabled. Notify your System Administrator. | 16-573-00 | Network controller - ESS print service has failed. | Switch the machine off then on, GP 14. Printing cannot continue. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Services involving a Parallel Port are not available. Notify System Administrator. | 16-569-00 | Network controller - parallel ports are not available. | Switch the machine off then on, GP 14. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Services involving a Serial Port are not available. Notify System Administrator. | 16-589-00 | The network controller serial port connectivity has failed. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |

| | Table 2 Status messages & to N | | | |
|---|--------------------------------|--|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Network Services involving AppleTalk are not available. Notify your System Administrator. | 16-565-00 | Apple Talk printing error. Printing can continue using other submission methods. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. | |
| Network Services involving PostScript are not available. Notify your System Administrator. | 16-567-00 | Network controller - a PostScript interpreter error has occur, caus- ing the process to fail. | Switch the machine off then on, GP 14. Printing can continue if other submission methods are used. | |
| Network Services involving Scan to E-mail are not available. Notify System Administrator. | 16-505-00 | Insufficient memory for e-mail. | Switch the machine off then on, GP 14. If the fault persists check the network connections. | |
| Network Services involving Scan to E-mail are not available. Notify System Administrator. | 16-510-00 | Scan to e-mail process failed. | Switch the machine off then on, GP 14. If the fault persists check network connections. | |
| Network Services involving Scan to E-mail are not available. Notify System Administrator. | 16-514-00 | Post Office Protocol (POP3) (for inbound internet fax messages) process failed. | Switch the machine off then on, GP 14. | |
| Network Services involving Scan to E-mail are not available. Notify System Administrator. | 16-517-00 | SMTP process failed. | Switch the machine off then on, GP 14. | |
| Network Services related to Internet Fax are not available. Notify System Administrator. | 16-511-00 | Internet fax process failed. | Switch the machine off then on, GP 14. If the fault persists, check network connections | |

Table 2 Status messages G to N

| UI Message | Status Code | Reason for Message | Reference/Action |
|---|----------------|---|---|
| Network Services using BOOTP Initialization not available. Notify System Administrator. | 16-559-00 | Network controller BOOTP initialization failure. | Check the BOOTP server and its network connection. Switch the machine off then on, GP 14. |
| Network Services using DC Platform recovery not available. Notify System Administrator. | 16-557-00 | Network controller DC platform recovery failed. | Switch the machine off then on, GP 14. |
| Network Services using DC Platform recovery not available. Notify System Administrator. | 16-558-00 | Network controller DC communications failed. | Switch the machine off then on, GP 14. |
| Network Services using WS Edge Client are not available. Notify your System Administrator. | 16-518-00 | Web services edge cli- ent interface does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |
| Network Services using WS Edge Client are not available. Notify your System Administrator. | 16-519-00 | Web services client controller does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |
| Network Services using WS Edge Client are not available. Notify your System Administrator. | 16-520-00 | Web services server controller interface does not work. | Switch the machine off then on, GP 14. If the fault persists check network connections. |

Table 2 Status messages G to N

| | Table 2 Status messages 6 to 14 | | | |
|--|---------------------------------|--|---|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Network Services with Job Based Accounting not available. Notify your System Administrator. | 16-501-00 | Job based accounting not enough DC mem- ory. Some network con- troller services are not available. | Not enough CCM memory to run the network accounting feature. Switch the machine off then on, GP 14. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Services with Port 9100 Process are not available. Notify System Administrator. | 16-599-00 | Raw TCP/IP printing (port 9100) process has failed. | Switch the machine off then on, GP 14. Printing can continue with other submission methods. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| Network Services with Scan Compressor are not available. Notify your System Administra- tor. | 16-529-00 | The network control- ler's scan compressor service process has stopped. | Some network service are not available. The network controller connection is about to be reset. No user intervention is required. | |
| No communica- tions with Xerox SMart eSolu- tions server. Contact System Administrator. | 17-562-00 | Registration with Edge server fails. | User intervention is required to review SMart eSolutions settings. Machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| No communica- tions with Xerox SMart eSolu- tions server. Contact System Administrator. | 17-563-00 | Communication with Edge server fails. | User intervention is required to review SMart eSolutions settings. Machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | |
| No tray is configured with the required paper size. | 22-504-04 | No paper tray is configured to run the stock size required for this job. | Print and copy services are disabled, other machine services are unaffected Job must be deleted. Paper tray must be configured to match the job. If the fault persists, perform the 322-310-04 to 322-318-04 RAP. | |

Table 3 Status messages O to R

| | Table 3 Status messages O to R | | | |
|--|--------------------------------|---|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | 02-517-00 | The CCS is counting down grace prints until a valid authorisation PIN is entered at the UI. | User intervention is required to enter a valid activation code. All services are available until all courtesy prints are used. | |
| Obtain a Sup- plies Plan Activa- tion Code from yours Xerox equipment sup- plier. | 02-518-00 | The grace prints period has expired. | User intervention is required to enter a valid activation code. Print services are disabled. | |
| Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | 22-582-00 | Service plan registration warning. | Enter the registration code. | |
| Obtain a Sup- plies Plan Activa- tion Code from your Xerox equipment sup- plier. | 22-584-00 | Service plan registra- tion expired. | Enter the registration code. | |
| On Demand Overwrite Failed. Perform an On Demand Over- write immedi- ately. | 17-591-00 | HDD or fax ODIO failed. | ODIO error. Administrator intervention is required to perform an ODIO immediately. Printing can continue. Other machine services are unaffected. | |
| On Demand Overwrite Failed. Perform an On Demand Over- write immedi- ately. | 19-507-00 | HDD or fax ODIO failed. | ODIO error. Administrator intervention is required to perform an ODIO immediately. Printing can continue. Other machine services are unaffected. | |
| One or more queued jobs need resources. | 22-513-04 | One or more queued jobs in the system are being held due to lack of resources. | Add paper to the tray being used to clear queued job. Jobs will be held until resources become available. Other machine services are unaffected | |
| One or more queued jobs need resources. | 22-515-04 | One or more queued jobs in the system is being held. | Add paper to the tray being used to clear queued job. | |

Table 3 Status messages O to R

| | Table 3 Status messages O to R | | | |
|--|--------------------------------|---|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| Original not fully inserted. | 05-571-00 | Document not fully inserted in the document feeder. | Remove any sheets from the document feeder to allow the device to initialize. As necessary, perform the 305-940-00, 305-966-00 RAP. | |
| Output tray is full. | 12-692-01 | The centre output tray is full. | Empty the centre output tray. | |
| Output tray is nearly full. | 12-729-01 | The centre output tray is nearly full. | The centre output tray is almost full. The tray may be emptied now or when it is full. Printing and other machine services are unaffected. | |
| Output Tray on- line. | 12-742-00 | Finisher has gone back on-line. | No action necessary. | |
| Paper Jam behind the Left Side Door. | 81-200-00 | Jam in left door when sheets fed from trays 1-5. | Clear the jam in the left door. | |
| Paper Jam behind the Left Side Door. | 81-200-01 | Jam in left door when sheets fed from trays 1-5. | Clear the jam in the left door. | |
| Paper Jam in the finisher. | 12-610-00 | Paper is detected over the 2K LCSS entry sen- sor. | Clear the paper jam. If the fault persists, perform the 312-125-00-110, 312-126-00-110, 312-199-00-110 RAP. | |
| Paper Jam in the Finisher. | 12-610-03 | Paper is detected over the LVF BM entry sen- sor. | Clear the paper jam. If the fault persists, perform the 312-125-00-150, 312-126-00-150, 312-199-00-150 RAP. | |
| Paper Jam in the Finisher. | 12-611-00 | Paper jam near the entry to the finisher unit. | Clear the paper jam. | |
| Paper Jam in the Finisher. | 12-612-00 | Paper is detected over the hole punch position sensor at power-up, interlock status change or after shutdown. (2K LCSS). | Clear the paper jam. | |
| Paper Jam in the Finisher. | 12-612-03 | Paper is detected over the hole punch position sensor at power-up, interlock status change or after shutdown. (LVF BM). | Clear the paper jam. | |

| Table 5 Status messages 5 to K | | | |
|---|----------------|---|---|
| UI Message | Status Code | Reason for Message | Reference/Action |
| Paper Jam in the Finisher. | 12-618-00 | Paper is detected over the top tray exit sensor at power-up, interlock status change or after shutdown (2K LCSS). | Clear the paper jam. |
| Paper Jam in the Finisher. | 12-618-03 | Paper is detected over the top tray exit sensor at power-up, interlock status change or after shutdown. (LVF BM). | Clear the paper jam. |
| Paper Jam in the Finisher. | | Paper is detected over the 2k LCSS compiler exit sensor at power- up, interlock status change or after shut- down. | Clear the paper jam. If the fault persists, perform the 312-151-00-110, 312-152-00-110 RAP. |
| Paper Jam in the Finisher. | 12-620-03 | Paper is detected over the LVF BM compiler exit sensor at power- up, interlock status change or after shut- down. | Clear the paper jam. If the fault persists, perform the 312-151-00-150, 312-152-00-150 RAP. |
| Paper Jam in the Finisher. | 12-630-03 | Sheet over the booklet maker entry sensor (LVF BM). | Clear the area. If the fault persists, perform the 312-160-00-150, 312-162-00-150 RAP. |
| Paper Jam in the Finisher. | 12-636-03 | Sheet over the booklet maker exit sensor (LVF BM). | Clear the jam from the output bin. If the fault persists, perform the 312- 180-00-150, 312-182-00-150 RAP. |
| Paper Jam in the Finisher. | 12-717-03 | Sheet over the LVF BM compiler paper present sensor. | Clear the LVF BM paper present sensor area 6e. If the fault persists, perform the 312-184-00-150, 312- 494-00-150, 312-496-00-150 RAP. |
| Paper required for the current job is not available. | 22-511-04 | Media required for current marking job is not loaded. | Load the correct paper to complete the held job or cancel the held job. Other machine services are unaffected. |
| Paper Transport Cover is open. | 10-565-00 | Finisher paper transport cover is open. | Close the horizontal transport cover, PL 10.15 Item 11. |
| Please complete all steps required by the external accounting device to access this service. | 03-558-00 | Generic FDI: unable to complete the current job. | Complete all steps required by the external accounting device to continue the job. |

| | 1 | able 5 Otatus messages | 1 |
|--|----------------|--|---|
| UI Message | Status Code | Reason for Message | Reference/Action |
| Please enter access code into external account- ing device to access this ser- vice. | | Walk up code entry FDI: access code required. | Complete all steps required by the external accounting device to continue the job. |
| Please insert card into the external account- ing device to access this ser- vice. | 03-558-01 | Walk up FDI: access card required. | Complete all steps required by the external accounting device to continue the job. |
| Please insert Key Counter into the external accounting device to access this service. | 03-558-04 | Walk up key entry FDI: key counter required. | Complete all steps required by the external accounting device to continue the job. |
| Please insert money into the external account- ing device to access this ser- vice. | 03-558-03 | Walk up coin entry FDI: coins required. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| Please wait Adjustments are in progress. | 81-220-00 | Post jam clearance initialisation. | No service action required, please wait. If the fault persists, switch the machine off, then on, GP 14. |
| Please wait Disk Encryption operation in progress. | 17-580-00 | Disk encryption is in progress. | No service action required, please wait for encryption to finish. |
| Please wait Freeing memory. | 19-502-00 | Out of memory resources. The machine has run out of image processing memory for the current job. | No user intervention required, please wait, printing will resume after memory is freed. Other machine services are unaffected. If the fault persists, perform the 319-401-00, 319-402-00 RAP. |
| Please wait Fuser is warming up. | 10-505-00 | Fuser is not at run temperature. | Perform the 310-330-00, 310-340- 00 RAP. |
| Please wait Maintenance in progress. Scan, Copy and Print services not available. | 03-555-00 | The machine has entered intrusive customer tools mode. | Go to dC301. Perform a copier NVM initialization and NVM data select all. |

| | Status | | |
|---|-----------|---|--|
| UI Message | Code | Reason for Message | Reference/Action |
| Please wait Print Engine cooling in progress. | 91-378-00 | Print cartridge cooling event. IOT tempera- ture is above print car- tridge temperature upper threshold. | Perform the 391-377-00 Print Cartridge Cooling Failure RAP. |
| Please wait Print Engine cooling in progress. | 91-400-00 | Print cartridge cooling fan is on. | No service action required. |
| Please wait Print Quality Maintenance in progress. | 10-010-00 | IOT switched into high area coverage recovery mode. No marking, sheets stopped below reg sensor and IOT dead cycling until TC recovers. | Clear any paper jam. Perform the 393-360-00 to 393-364-00 RAP. |
| Please wait Printer is warm- ing up. | 10-573-00 | Warming up. | No service action. |
| Please wait The Fax Service is initializing. | 20-544-00 | The fax service is initializing. | The fax service is re-starting. No user intervention is required. Printing and other machine services are available |
| Please wait The Image Disk is full. | 19-513-00 | The image disk is full. | Print jobs may be delayed. No service action required. The system is attempting to recover. Printing and other machine services are available. |
| Please wait The output tray is lowering | 12-741-00 | Finisher is about to go back on-line. | No action necessary. |
| Please wait The system is attempting to recover | 03-561-00 | The system is recovering. | Wait until the system recovers. |
| Please wait The system is attempting to recover. | 19-510-00 | System is attempting to recover. Image disk error. | No service action required. Printing and other machine services are unaffected. |
| Please wait The scanner is initializing. | 03-556-00 | Power on while the IIT is being initialized. | - |
| Printer failed to warm up. | 10-550-00 | Fuser warmup failure. | Perform the 310-330-00, 310-340- 00 RAP. |

| Table 3 Status messages 0 to K | | | |
|---|----------------|--|---|
| UI Message | Status Code | Reason for Message | Reference/Action |
| Print Head data transfer failure. | 61-100-00 | CIPS checksum of LED PH data does not match checksum read from the PH itself. | Switch the machine off, then on, GP 14. If the fault persists, perform the 361-100-00 RAP. |
| Provide pay- ment or the cur- rent job may be deleted. | 03-559-00 | Generic FDI: unable to complete the current job due to insufficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| Provide pay- ment or the cur- rent job may be deleted. | 03-559-04 | Walk up key entry FD: unable to complete the current job due to insufficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| Provide pay- ment or the cur- rent job may be deleted. | 03-559-05 | Walk up FDI: unable to complete the current job - FDI inactivity timer enabled. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job, select the Close button, then the Job Status button located on the control panel and then your job.If no action is taken, the job will be deleted. |
| Provide pay- ment or the cur- rent job may be deleted. | 03-559-06 | Walk up coin entry FDI: unable to complete the current job due to insuf- ficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. To immediately delete this job, select the Close button, then the Job Status button located on the control panel and then your job. If no action is taken, the job will be deleted. |
| Provide payment. | 03-559-01 | Walk up FDI: unable to complete the current job due to insufficient funds. | The job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. |
| Provide pay- ment. | 03-559-03 | Walk up coin entry FDI: unable to complete the current job due to insuf- ficient funds. | The Job cannot be completed due to insufficient funds. Complete all steps required by the external accounting device to continue the job. To cancel this job, press the hard-panel Job Status button, select the job and then the Delete button. |
| Ready to Install | 03-600-00 | Displayed at install when the machine is in the correct state to allow machine speed to be set from a blank SIM. | No service action. |

Table 3 Status messages O to R

| Status | | | |
|--|-----------|--|---|
| UI Message | Code | Reason for Message | Reference/Action |
| Register for your Supplies Plan. | 22-580-00 | Service plan registration alert. | Perform the 322-360-00 RAP. |
| Reload sheets in document feeder | 05-326-00 | Documents are in the SPDH at power on or exit from power save. | Remove all documents from the SPDH. If the fault persists, perform the 305-960-00 RAP. |
| Remove documents from the Document Feeder Input Tray or close the Document Feeder. | 22-505-00 | Documents sensed in the SPDH tray during IIT standby and docu- ment handler cover is open. | To scan from the document glass, remove documents in the document feeder input tray. To use the document feeder to scan your documents, lower the document feeder. |
| Remove the doc- ument. It is too short to be fed by Document Feeder. | 05-560-00 | The document is too short. | Remove the short document. Inform the customer that the document is too short to be fed by the SPDH. |
| Reorder Bias Transfer Roller (R4) but do not replace until prompted. | 09-685-00 | Reorder bias transfer roller but do not replace yet. | Order a new bias transfer roller, PL 80.15 Item 3, but do not replace until prompted. |
| Reorder Fuser Module (R3) but do not replace until prompted. | 10-524-00 | The fuser low supply warning, threshold has been reached. | Order a fuser module, PL 10.8 Item 1, but do not replace until prompted. |
| Reorder Fuser Module but do not replace until prompted. | 09-594-00 | Reorder fuser module but do not replace yet. | Order a fuser module, PL 10.8 Item 1, but do not replace until prompted. |
| Replace Booklet Maker Staple Cartridges (R8). | 12-643-00 | The booklet maker sta- ple cartridge is empty. | The booklet maker staple cartridge is empty. Follow the instructions at the printer to load a new staple cartridge, PL 12.365 Item 7 or the LVF BM. Printing can continue, but stapled booklet making is unavailable. |
| Replace Fuser Module (R3). | 10-523-00 | The fuser needs replacing. | |
| Replace Print Cartridge (R2). | 09-521-00 | IOT detects a print cartridge failure. | Install a new print cartridge, PL 90.17 Item 9. |
| Replace Staple Cartridge (R7). | 12-715-00 | The finisher's main sta- ple cartridge is empty. | Install new staple cartridge, PL 12.55 Item 7 for the 2K LCSS, PL 12.365 Item 7 for the LVF BM. |

Table 3 Status messages O to R

| UI Message | Status Code | Reason for Message | Reference/Action |
|-----------------|----------------|--------------------|-------------------------------------|
| Replace Toner | 09-588-00 | Replace toner car- | Install new toner cartridge. If the |
| Cartridge (R1). | | tridge (R1). | fault persists perform 393-390-00 |
| | | | RAP. |

Table 4 Status messages S to X

| UI Message | Status Code | Reason for Message | Reference/Action |
|--|----------------|--|---|
| Scan and copy services not available. Print service is avail- able. | 05-501-00 | Document feeder is raised. | Close the Document Feeder. |
| Scan to File not available. Power Off then On and Notify System Administrator. | 16-561-00 | Network controller - scan to file processes have failed. | Switch the machine off then on, GP 14. |
| Scanner Fault. | 14-517-00 | Scanner fault. | Switch the machine off then on GP 14. Check the current fault codes list for faults in the scanner and perform the appropriate RAP. |
| Scanning will be delayed. | 22-508-04 | Scan startup delayed whilst awaiting resources. | No user intervention is required. Job will begin when system is ready. If the fault persists, perform the 322- 330-06 RAP. |
| Select the Cur- rent Messages button in the Machine Status for more informa- tion. | 22-502-04 | An active message has been produced. | Go to the Status screen and select the Faults tab. Select the Active Messages button and perform the action appropriate to the message. |
| Server Fax Service cannot Register. Power Off then On and Notify System Administrator. | 17-551-00 | Server fax service can- not register. | Switch the machine off then on, GP 14. Server fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Service Limit exceeded. New services will not be available until some services are removed. | 16-533-00 | Controller software service limit exceeded. | Remove some existing services to enable new services to be added. Machine services are available but may be degraded. |

| | 1 | Table 4 Status messages 5 to A | | | |
|---|----------------|--|--|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | | |
| SIM Insertion Required. Notify System Adminis- trator. | 22-572-00 | Speed not set on IOT. Either the machine has not yet received a SIM, or the settings have been corrupted | Switch the machine off then on, GP 14. If the fault persists, perform the 303-405-00, 303-406-00 RAP. | | |
| Some jobs may have been deleted | 03-562-00 | When some jobs may have been deleted. | No service action. | | |
| Some jobs may have been deleted. | 19-505-00 | Compressor DVMA timeout. Current job has been deleted. | Confirm that UI message has been seen. Re-scan the job. If the fault persists, perform the 319-403-00 RAP. | | |
| Some Network Accounting Ser- vices are not available. Notify your System Administrator. | 16-596-00 | Some network control- ler services are not available. | Network accounting error. User intervention is required to switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | | |
| Some Network Authentication Services are not available. Notify your System Administrator. | 16-582-00 | The network controller ESS authentication SPI process has stopped. | Switch the machine off then on, GP 14. Print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. | | |
| Some Network Diagnostic Ser- vices are not available. Notify your System Administrator. | 16-581-00 | The network controller ESS diagnostic service process has stopped. | Switch the machine off then on, GP 14. Printing and scanning can con- tinue. If the fault persists, perform the 316E Network Fault Checkout RAP. | | |
| Some Network Services are not available due to a process error. Notify System Administrator. | 16-560-00 | Some processes on the network controller have failed. | Switch the machine off then on, GP 14. | | |
| Some Network Services involv- ing DDNS are not available. Notify your Sys- tem Administra- tor. | 16-504-00 | DDNS error. Some net- work controller services are not available. | The DDNS address resolution process has failed. Switch the machine off then on, GP 14. If the fault persists check the DDNS server's network connections. | | |

| | Table 4 Status messages 5 to A | | | |
|--------------------|--------------------------------|--|--|--|
| | Status | | | |
| UI Message | Code | Reason for Message | Reference/Action | |
| Some Network | 16-593-00 | Network controller - | Check DHCP server network con- | |
| Services involv- | | DHCP address resolu- | nection. Switch the machine off then | |
| ing DHCP are | | tion has failed. | on GP 14. Copying and printing with | |
| not available. | | | local connections can continue. If | |
| Notify your Sys- | | | the fault persists, perform the 316E | |
| tem Administra- | | | Network Fault Checkout RAP. | |
| tor. | | | | |
| Some Network | 16-591-00 | Network controller eth- | Check ethernet connection. Switch | |
| Services involv- | | ernet process has | the machine off, then switch the | |
| ing Ethernet are | | failed. | machine on GP 14. Local printing | |
| not available. | | | can continue. If the fault persists, | |
| Notify System | | | perform the 316E Network Fault | |
| Administrator. | | | Checkout RAP. | |
| Some Network | 16-570-00 | Network controller - an | Switch the machine off then on, GP | |
| Services involv- | 10-370-00 | HTTP interpreter error | 14. Printing can continue if other | |
| ing HTTP are not | | has occurred, causing | submission methods are used. If the | |
| available. Notify | | the process to fail. | fault persists, perform the 316E Net- | |
| your System | | the process to fail. | work Fault Checkout RAP. | |
| Administrator. | | | WORK FAUIT CHECKOUT NAF. | |
| | 10 500 00 | Land Control of the C | 0 111 11 11 11 11 11 11 11 11 11 11 11 1 | |
| Some Network | 16-509-00 | Insufficient memory for | Switch the machine off then on, GP | |
| Services involv- | | internet fax. | 14. Printing can continue if other | |
| ing Internet Fax | | | network protocols are used. | |
| are not available. | | | | |
| Notify System | | | | |
| Administrator. | | | | |
| Some Network | 16-562-00 | Network controller - the | Switch the machine off then on, GP | |
| Services involv- | | line printer daemon | 14. Printing can continue if other | |
| ing LPD are not | | (LPD) process has | submission methods are used. | |
| available. Notify | | failed. | | |
| your System | | | | |
| Administrator. | | | | |
| Some Network | 16-564-00 | Network controller - the | Switch the machine off then on, GP | |
| Services involv- | | NetBIOS connectivity | 14. Printing can continue if other | |
| ing NetBios are | | process has failed. | submission methods are used. | |
| not available. | | | | |
| Notify System | | | | |
| Administrator. | | | | |
| Some Network | 16-563-00 | Network controller - the | Switch the machine off then on, GP | |
| Services involv- | | Novell netware connec- | 14. Printing can continue if other | |
| ing Novell are | | tivity process has | submission methods are used. | |
| not available. | | failed. | | |
| Notify your Sys- | | | | |
| tem Administra- | | | | |
| tor. | | | | |
| L | | | | |

| Table 4 Status messages 5 to A | | | |
|---|-----------|--|--|
| | Status | Danas for Marca | Defense as /A ation |
| UI Message | Code | Reason for Message | Reference/Action |
| Some Network Services involv- ing PCL are not available. Notify your System Administrator. | 16-568-00 | Network controller - a PCL interpreter error has occurred, causing the process to fail. | Switch the machine off then on, GP 14, to enable PCL printing. Printing can continue if other job format methods are used. |
| Some Network Services involv- ing RARP are not available. Notify your Sys- tem Administra- tor. | 16-594-00 | Network controller - RARP address resolu- tion has failed. | Check RARP server network connection. Switch the machine off then on GP 14. Printing can continue with other submission methods. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Some Network Services involv- ing SLP are not available. Notify your System Administrator. | 16-507-00 | SLP process stopped. Some network control- ler services are not available. | Switch the machine off then on, GP 14. |
| Some Network Services involv- ing SSDP are not available. Notify your System Administrator. | 16-513-00 | Simple service discovery protocol (SSDP) failed. | Switch the machine off then on, GP 14. |
| Some Network Services involv- ing TCP/IP are not available. Notify your Sys- tem Administra- tor. | 16-598-00 | Network controller - TCP/IP address is already in use on the network. | Another IP address needs to be used. Switch the machine off then on, GP 14. Copy and fax services (if installed) can continue. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Some Network Services involv- ing TIFF are not available. Notify your System Administrator. | 16-597-00 | The network controller TIFF interpreter has failed. | Switch the machine off then on, GP 14. Printing can continue with other job formats. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Staple Cartridge (R7) is nearly empty. Make sure you have a replacement. | 12-716-00 | Finisher staples are low. | The finisher's main staple cartridge supplies are low. Re-order staple cartridge. Printing can continue. PL 12.55 Item 7 for the 2K LCSS, PL 12.365 Item 7 for the LVF. |

| UI Message | Status Code | Reason for Message | Reference/Action |
|--|----------------|---|--|
| Stapling fault. Power Off then On and Notify System Administrator. | 12-653-00 | Stapling disabled, out of service. | Switch the machine off then on, GP 14. Open Finisher Front Door and Check for Obsructions. |
| Start cannot be accepted at this time. | - | Software error. | Switch the machine off then on, GP 14. |
| System Error. Power Off then On and Notify System Adminis- trator. | 03-565-00 | System fault. | Switch the machine off then on, GP 14. |
| System Error. Power Off them On and Notify System Administrator. | 03-578-00 | Paper tray error. | Switch the machine off then on, GP 14. |
| System Error. Power Off them On and Notify System Administrator. | 03-581-00 | Paper tray error. | Switch the machine off then on, GP 14. |
| System error. Power Off then On and Notify System Adminis- trator. | 03-505-00 | The digital copier is not available. | Perform 303-325-00 RAP and 303- 355-00 RAP. |
| System Error. Power Off then On and Notify System Administrator. | 03-598-00 | Unable to set ready mode. Printing and copying services are not available. | Switch the machine off then on, GP 14. If the fault persists, perform the 303-788-00 RAP. |
| System Error. Power Off then On and Notify System Administrator. | 04-565-00 | DC Platform interface failure. One or more DC platform interfaces has timed out. | System fault. Switch the machine off then on, GP 14. If the fault persists perform the 303-315-00 RAP. |
| System Error. Power Off then On and Notify System Adminis- trator. | 16-503-00 | Incomplete system information. | Switch the machine off then on, GP 14. If the fault persists perform the 303-315-00 DC Platform Internal Interface Fault RAP. |

| | Status | | |
|--|-----------|--|--|
| UI Message | Code | Reason for Message | Reference/Action |
| System Error. Power Off then On and Notify System Administrator. | 22-563-00 | Incomplete system information. | Switch the machine off then on, GP 14. |
| System Error. Power Off then On and Notify System Adminis- trator. | 41-501-00 | The CRUMs bus communications have been disrupted by internal electronic noise. | Switch the machine off then on, GP 14. If the fault persists, perform the 341-301 RAP. |
| System Error. Power Off then On and Notify System Administrator. | 16-600-00 | Disk partition threshold has been exceeded. Performance may be degraded. | Switch the machine off then on, GP 14. Refer to the 316-718-00 to 316- 726-00 Hard Disk Faults RAP. |
| The Booklet Maker Tray in the Finisher is full. Empty the Tray. | 12-728-00 | Booklet maker output tray full. | Empty the tray. |
| The Booklet Maker Tray in the Finisher is nearly full. | 12-727-00 | The booklet maker output tray is nearly full. | The booklet maker tray is near full. User intervention will be required soon to empty the tray to allow continued booklet making. Print and copy services can continue; other machine services are unaffected. |
| The current job exceeds the tray capacity, you will be prompted to empty the tray. | 12-411-00 | Copy Job will exceed the output destination's capacity. | Empty the tray. |
| The device is not available. | 22-585-00 | Recovery mechanism has restored a lost parameter. | Switch the machine off, then on, GP 14. |
| The Document Feeder is not available. The Document Glass is still available. | 03-597-00 | The document feeder is not available. Use the document glass. | Switch the machine off then on, GP 14. |
| The Document Feeder Top Cover is open. | 05-502-00 | The document feeder top cover is open. | Close the document feeder top cover. If the fault persists, perform the 305-305-00 RAP. |

| Ctatus Messages 5 to A | | | |
|------------------------|----------------|-------------------------|---|
| UI Message | Status Code | Reason for Message | Reference/Action |
| • | | Reason for Message | |
| The document | 22-507-05 | Document is larger | Try one of the following: Select |
| size was different | | than expected. | mixed size originals and reload into |
| than expected. | | | the document feeder or ensure the |
| The job has been | | | originals are not creased or folded |
| deleted. | | | and retry from the document glass. If |
| | | | the fault persists, perform the 305A |
| | | | RAP |
| The E-mail Ser- | 17-558-00 | E-mail service cannot | Switch the machine off then on, GP |
| vice cannot Un- | | un-register. | 14. Scan to e-mail is disabled, print |
| Register. Notify | | | and other machine services are |
| your System | | | unaffected. If the fault persists, per- |
| Administrator. | | | form the 316E Network Fault Check- |
| | | | out RAP. |
| The Fax Service | 22-566-00 | Fax service cannot reg- | Switch the machine off then on, GP |
| cannot Register. | | ister. | 14. Fax and LAN fax are disabled. |
| Notify your Sys- | | | Other machine services are unaf- |
| tem Administra- | | | fected. If the fault persists, perform |
| tor. | | | the 322-371-00, 322-372-00 RAP. |
| The Fax Service | 22-567-00 | Fax service cannot un- | Switch the machine off then on, GP |
| cannot Un-Reg- | 22 007 00 | register. | 14. All machine services are dis- |
| ister. Notify your | | rogiotor. | abled. If the fault persists, perform |
| System Adminis- | | | the 322-371-00, 322-372-00 RAP. |
| trator. | | | 1110 022 07 1 00, 022 072 00 10 W. |
| The Finisher | 12-564-00 | The 2K LCSS front | Close the finisher front door. If the |
| Front Door is | 12-304-00 | door is open. | fault persists perform the 312-310- |
| open. | | door is open. | 00-110, 312-312-00-110, 312-313- |
| ореп. | | | 00-110, 312-312-00-110, 312-313- |
| The Finisher | 12-564-03 | The LVF BM front door | Close the finisher front door. If the |
| Front Door is | 12-304-03 | is open. | fault persists perform 312-310-00- |
| open. | | is open. | 150, 312-312-00-150, 312-313-00- |
| ореп. | | | 150 RAP. |
| The Front Door | 01-510-00 | The front door is open. | Copying and printing services are |
| is open. | 0101000 | The none door to open. | disabled. Perform the 301-300-00 |
| о орст. | | | RAP. |
| The Internet Fax | 17-557-00 | Internet fax service | Switch the machine off then on, GP |
| Service cannot | 17-337-00 | cannot un-register. | 14. Internet fax is disabled, print and |
| Un-Register. | | camot un-register. | other machine services are unaf- |
| Notify your Sys- | | | fected. If the fault persists, perform |
| tem Administra- | | | the 316E Network Fault Checkout |
| tor. | | | RAP. |
| | 04 544 00 | The home as the second | |
| The Left Side | 01-514-00 | The bypass tray and | Copying and printing services are |
| Door is open. | | left door assembly is | disabled. Perform the 301-305-00 |
| | | open. | RAP. |
| | l | I | 1 |

| | Table 4 Status messages 5 to X | | | |
|--|--------------------------------|--|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action | |
| The Left Side Door is open. | 01-515-00 | The bypass tray and left door assembly is open for more than 30 seconds. | Copying and printing services are disabled. Perform the 301-305-00 RAP. | |
| The machine is not available. | 02-520-00 | Software error has occurred. | Switch the machine off then on, GP 14. | |
| The machine is offline. | 03-504-00 | NC status code. | Switch the machine off then on, GP 14. | |
| The machine is offline. | 03-504-01 | NC status code. | Switch the machine off then on, GP 14. | |
| The Network Controller con- nection is about to be reset. | 16-502-00 | Status active when ever the network controller detects that a platform reset is about to occur. | Cleared when the network controller reset is initiated. | |
| The Network Controller con- nection is about to be reset. | 16-521-00 | The network control- ler's CPI service pro- cess has stopped. | Machine services are temporarily disabled. The network controller connection is about to be reset. No user intervention is required. | |
| The Network Controller con- nection is about to be reset. | 16-522-00 | The network control- ler's job log service pro- cess has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. | |
| The Network Controller con- nection is about to be reset. | 16-523-00 | The network control- ler's job tracker service process has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. | |
| The Network Controller con- nection is about to be reset. | 16-524-00 | The network control- ler's Kerberos service process has stopped. | Some network services are not available. The network controller connection is about to be reset. No user intervention is required. | |
| The Network Controller con- nection is about to be reset. | 16-525-00 | The network control- ler's scan to distribution service process has stopped. | Some network services are not available. The network controller connection is about to be reset. | |
| The Network Controller con- nection is about to be reset. | 16-526-00 | The network control- ler's SMB service pro- cess has stopped. | Some network service are not avail- able. The network controller connec- tion is about to be reset. | |
| The Network Controller con- nection is about to be reset. | 16-527-00 | The network control- ler's TCP/IP service process has stopped. | Some network service are not available. The network controller connection is about to be reset. | |

| | · | able 4 Status messages | |
|---|----------------|--|--|
| UI Message | Status Code | Reason for Message | Reference/Action |
| The Network Controller con- nection is about to be reset. | 16-528-00 | The network control- ler's WS scan temp service process has stopped. | Some network service are not avail- able. The network controller connec- tion is about to be reset. |
| The Network Controller con- nection is about to be reset. | 16-575-00 | The network controller ESS registration service process has stopped. | Automatic network controller reset. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| The Network Controller con- nection is about to be reset. | 16-576-00 | The network controller ESS event notification service process has stopped. | Automatic network controller reset. Switch the machine off then on, GP 14. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| The Network Controller con- nection is about to be reset. | 16-577-00 | The network controller ESS platform manager service process has stopped. | Automatic network controller reset. Machine is unavailable. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| The Network Controller con- nection is about to be reset. | 16-584-00 | The network controller document manager agent process has stopped. | Automatic network controller reset. Machine is unavailable. |
| The Network Controller is ini- tializing. Copy and Print jobs may be delayed. | 03-563-00 | Network service are being established. | Please wait, the network controller is initializing. No user intervention is required. Printing is currently unavailable. If the fault persists, perform the 303-331-00, 303-332-00 RAP. |
| The number of originals was less than the number originally scanned. | 22-503-05 | Job recovery error. The number of originals reloaded does not match the number originally scanned. | Perform the 305-941-00 RAP. |
| The Reprint Saved Jobs Ser- vice cannot Un- Register. Notify your System Administrator. | 17-561-00 | Reprint saved jobs service cannot un-register. | Switch the machine off then on, GP 14. Re-printing of saved jobs in disabled. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| The Server Fax Service cannot Un-Register. Notify your Sys- tem Administra- tor. | 17-556-00 | Server fax service can- not un-register. | Switch the machine off then on, GP 14. Server fax is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |

| UI Message | Status Code | Reason for Message | Reference/Action |
|---|----------------|---|---|
| The Workflow Scanning Ser- vice cannot Un- Register. Notify your System Administrator. | 17-560-00 | Network scanning service cannot un-register. | Switch the machine off then on, GP 14. Scan service is disabled, print and other machine services are unaffected. If the fault persists, perform the 316E Network Fault Checkout RAP. |
| Toner Cartridge (R1) is incompatible and needs replacing. | 09-678-00 | The toner cartridge in the machine is incom- patible with the machine (market region, service plan or type). | Install a correct toner cartridge. If the fault persists, perform the 393-399-00 RAP. |
| Toner Cartridge (R1) is missing or not inserted correctly. | 09-599-00 | Toner cartridge RF CRUM not detected within 2 cartridge rota- tions. | Install a toner cartridge. If the fault persists, perform the 393-401-00 RAP. |
| Toner Cartridge (R1) is nearly empty. Make sure you have a replacement. | 09-568-00 | Reorder toner car- tridge (R1) but do not replace until prompted. | Order a new toner cartridge, PL 26.11 Item 3. |
| Toner control system failure. | 09-596-00 | Toner control system fault. | Switch off, then switch on the machine, GP 14. If the fault persists, perform the 393-360-00 to 393-364-00 RAP. |
| Toner control system failure. | 09-597-00 | Toner control out of limits (high or low). | Perform the 393-360-00 to 393-364- 00 RAP. |
| Tray 1 guides are not set properly. | 01-545-01 | Dedicated tray 1 closed with media size different to the programmed size. | Load the correct media size or change the tray preset size. Perform the 371-500-00 RAP. |
| Tray 2 guides are not set properly. | 01-545-02 | Dedicated tray 2 closed with media size different to the programmed size. | Load the correct media size or change the tray preset size. Perform the 372-500-00 RAP. |
| Tray 1 lifting. | 71-536-00 | Tray 1 lifting. | No service action required. Print and copy services can continue from other rays if the correct media is available. If the fault persists, perform the 371-100-00, 371-217-00 Tray 1 Elevator Lift Failure RAP. |
| Tray 4 lifting. | 74-536-00 | Tray 4 lifting. | Print and copy services can continue from other trays if the correct media is available. If the fault persists, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP. |

| | Status | | |
|---|-----------|----------------------------------|--|
| UI Message | Code | Reason for Message | Reference/Action |
| Tray 2 lifting. | 72-536-00 | Tray 2 lifting. | No service action required. Print and copy services can continue from other trays if the correct media is available. If the fault persists, 372-100-00, 372-217-00 Tray 2 Elevator Lift Failure RAP. |
| Tray 3 lifting. | 73-536-00 | Tray 3 lifting. | Print and copy services can continue from other trays if the correct media is available. If the fault persists, perform the 373-100-00, 373-217-00 Tray 3 Elevator Lift Failure RAP. |
| Tray 4 lifting. | 74-536-00 | Tray 4 lifting. | Print and copy services can continue from other trays if the correct media is available. If the fault persists, perform the 374-100-00, 374-217-00 Tray 4 Elevator Lift Failure RAP. |
| Tray 1 is empty. Add paper. | 71-530-00 | Tray 1 out of media. | Add paper to tray 1. If the fault persists, perform the 371A Tray 1 and 2 Empty RAP. |
| Tray 2 is empty. Add paper. | 72-530-00 | Tray 2 out of media. | Add paper to tray 2. If the fault persists, perform the 371A Tray 1 and 2 Empty RAP. |
| Tray 3 is empty. Add paper. | 73-530-00 | Tray 3 out of media. | Add paper to tray 3. If the fault persists, perform the 373B Tray 3 Out of Paper RAP. |
| Tray 4 is empty. Add paper. | 74-530-00 | Tray 4 out of media. | Add paper to tray 4. If the fault persists, perform the 374B Tray 4 Out of Paper RAP. |
| Tray 5 is empty. Add paper. | 75-530-00 | The bypass tray is out of media. | Add paper to the bypass tray. If the fault persists, perform the 375A Bypass Tray RAP. |
| Tray 1 is not available. Notify your System Administrator. | 71-313-00 | Mechanical failure for tray 1. | Switch the machine off, then on, GP 14. |
| Tray 2 is not available. Notify your System Administrator. | 72-313-00 | Mechanical failure of tray 2. | Switch the machine off, then on, GP 14. |
| Tray 3 is not available. Notify your System Administrator. | 73-313-00 | Mechanical failure of tray 3. | Switch the machine off, then on, GP 14. |

Table 4 Status messages S to X

| | Status | | |
|--|-----------|--|---|
| UI Message | Code | Reason for Message | Reference/Action |
| | 74-313-00 | Mechanical failure of | |
| Tray 4 is not available. Notify | 74-313-00 | tray 4. | Switch the machine off, then on, GP 14. |
| your System | | liay 4. | 14. |
| Administrator. | | | |
| Tray 5 is not | 75-150-00 | A nanar iam haa | Remove, then reload the media in |
| available. Empty | 75-150-00 | A paper jam has occurred after feeding | the bypass tray. |
| and reload. | | from the bypass tray. | the bypass tray. |
| Tray 5 is not | 75-313-00 | Mechanical failure of | Switch the machine off, then on, GP |
| available. Notify | 75-313-00 | | 14. If the fault persists, perform the |
| your System | | the bypass tray. | 375A RAP |
| Administrator. | | | 373A KAF. |
| | 12-740-00 | Ciniobor trou in roadu | Follow the instructions to unload the |
| Tray is ready for unloading. Press | 12-740-00 | Finisher tray is ready for unloading. | tray. |
| the button on | | ior unloading. | liay. |
| Finisher to return | | | |
| tray to ready | | | |
| position. | | | |
| Unable to com- | 17-514-00 | External accounting | Administrator intervention required |
| municate to the | | device communication | to check the connection to the exter- |
| attached | | failure. | nal accounting device. |
| accounting | | | ů . |
| device. | | | |
| Unable to sta- | 12-901-00 | The finisher is in | Switch the machine off then on, GP |
| ple. Check for | | degraded mode, | 14. If the fault persists, perform |
| obstructions in | | unable to staple. | 312E-110 RAP for the 2K LCSS, |
| the output trays. | | | 312E-150 RAP for the LVF BM. |
| Workflow Scan- | 16-554-00 | Network controller - | Hardware must be added or |
| ning hardware | | hardware must be | replaced. |
| must be added | | added or replaced. | |
| or replaced. | | | |
| Notify your Sys- | | | |
| tem Administra- | | | |
| tor. | | | |
| Workflow Scan- | 17-559-00 | Network scanning ser- | Switch the machine off then on, GP |
| ning Service | | vice cannot register. | 14. Scan service is disabled, print |
| cannot Register. | | | and other machine services are |
| Power Off then | | | unaffected. If the fault persists, per- |
| On and Notify | | | form the 316E Network Fault Check- |
| System Adminis- trator. | | | out RAP. |
| | 46 F06 60 | Vous Administrator: | The Cyatem Administrator is a suite |
| Your Administra- tor is reconfigur- | 16-506-00 | Your Administrator is reconfiguring the sys- | The System Administrator is saving the machine configuration to a |
| ing the system. | | tem. | remote station. |
| Services will not | | toni. | Torriote station. |
| be available. | | | |
| oo avallable. | | | |

OF5 Boot Up Failure RAP

Use this RAP if the machine:

- Does not come to a "Ready to scan your job" state.
- Locks up with a "Please Wait" or "Machine Self Test In Progress" message.
- Has a black/white, dark/blank or green UI touch screen and the power saver LED on the user interface is flashing.
- · Has failed to load software.

Initial Actions

- Check the 7-segment LED display on the rear of the SBC module. If a code is displayed, perform the OF2 POST Error RAP.
- If the problem occurs while entering or exiting sleep mode, perform the 301K Sleep Mode RAP.
- Perform the OF7 IOT PWB Diagnostics RAP.
- Perform the 319-300-00 to 319-310-00 Hard Disk Failure RAP.
- If a boot up failure has occurred after the installation of new components, ensure those new components are compatible with the machine.
- Check that the power cord is connected to the machine.
- Switch off the machine, GP 14. Remove the SIM card, PL 3.22 Item 5. Switch on the machine, GP 14. If the fault is cleared, install a new SIM card that is compatible with the speed of machine and PagePack requirement. Refer to GP 9.
- Switch off the machine GP 14. Remove the power cord from the customer power outlet.
 Wait 2 minutes. Reconnect the plug into the outlet. Switch on the machine, GP 14. If the fault persists, perform the procedure.
- Remove, then re-install the SD card, PL 3.22 Item 6.
- Disconnect, then reconnect all the PJs on the SBC PWB, PL 3.22 Item 3.
- Check all the PJs are correctly connected on the UI control PWB, PL 2.10 Item 6.
- Check the UI harness connection to the SBC PWB, WD 4, PL 3.22 Item 15.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Only use the correct plug to connect a power lead to a power outlet.



Incorrect voltage may damage the machine. The machine must only be connected to the power outlet of the correct voltage.

CR23 on the SBC PWB is flashing, Figure 1.

N

Perform the steps that follow:

- Check the +5VSB supply to the SBC PWB. Refer to the 301E +5V and +5VSB Distribution RAP.
- Check the 0V supply to the SBC PWB. Refer to the 301B 0V Distribution RAP
 If the voltages are good, perform the 301J Power On and LVPS Control Signal RAP.

Switch off the machine, GP 14.

- Disconnect the SBC PWB to scanner PWB power/comms harness, PL 3.22 Item 13 from the WD 3.
- 2. If a LCSS or LVF BM is installed, disconnect the communication cable from PJ966, and the finisher power cord from PJ652 on the LVPS.
- 3. Install a finisher bypass connector, PL 26.10 Item 7.
- 4. If a fax is installed, remove the fax module, PL 20.05 Item 1.
- 5. Switch on the machine, GP 14.

The machine boots up.

/ N

Perform the steps that follow:

- Perform the 302A Touch Screen Failure RAP.
- Check the +5V supply to the SBC PWB. Refer to the 301E +5V and +5VSB Distribution RAP.
- Check the OV supply to the SBC PWB. Refer to the 301B OV Distribution RAP.
- Check the +24V supply to the SBC PWB. Refer to the 301G +24V Distribution RAP.

CR23 and CR24 on the SBC PWB are on.

/ N

If the UI touch screen is still black/white, dark/blank or green and the power saver LED is flashing, perform an AltBoot, GP 4.

Install a new SBC PWB, PL 3.22 Item 3.

Switch off the machine, GP 14. Connect the SBC PWB to scanner PWB power/comms harness. Switch on the machine, GP 14. **The machine boots up.**

Y N

Install a new Scanner PWB, PL 60.20 Item 4.

Switch off the machine, GP 14. Connect the output device communication cable and power cord. Switch on the machine, GP 14. **The machine boots up.**

Y N

Install new components as necessary:

- 2K LCSS PWB, PL 12.75 Item 1.
- LVF PWB, PL 12.425 Item 8.

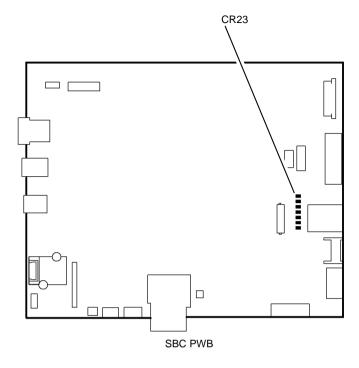
Switch off the machine, GP 14. Re-install the original Fax module. Switch on the machine, GP 14. **The machine boots up.**

/ N

Install new components as necessary:

- Fax PWB. PL 20.05 Item 7.
- SBC PWB, PL 3.22 Item 3.

If necessary, reload the software, GP 4.



W-1-1088-A

Figure 1 Component location

OF6 Air Systems RAP

Use this RAP to diagnose faulty machine fans. Faulty fans can cause smells or overheating.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Identify the suspect fan. Check that the fan is working correctly:

- LVPS Cooling Fan.
- Scanner Cooling Fan.
- SPDH Motor Cooling Fan.
- SPDH LED Cooling Fan.
- Left Door Fans 1 and 2.
- Print Cartridge Cooling Fan

LVPS Cooling Fan

This fan draws in air from the rear of the machine and blows it into the LVPS. The fan is hard wired into the low voltage power supply. Refer to PL 1.10 Item 5 and WD 1.

Scanner Cooling Fan

This fan draws air in through a filtered vent situated in the lower left corner of the scanner module, then directs the air flow onto the LED heat sink of the scan carriage assembly. Refer to PL 60.15 Item 6 and WD 17. The fan generates a lock alarm signal that outputs the status of the fan motor. To check the fan, refer to 362-357-00, 362-960-00 Scanner Cooling Fan Fault RAP.

SPDH Motor Cooling Fan

This fan draws air in at the rear of the SPDH, then directs the air flow onto the SPDH feed motor. Refer to PL 5.18 Item 7 and WD 15. The fan generates a lock alarm signal that outputs the status of the fan motor. To check the fan, refer to 305-961-00 SPDH Motor Fan Lock Alarm.

SPDH LED Cooling Fan

This fan draws air in at the rear of the SPDH, then directs the air flow via a duct onto the LED heat sink of the side 2 scan assembly. Refer to PL 5.18 Item 8 and WD 15. The fan generates a lock alarm signal that outputs the status of the fan motor. To check the fan, refer to 305-960-00 SPDH LED Fan Lock Alarm.

Left Door Fans 1 and 2

The 2 fans mounted in the left door assembly provide cooling for the fuser unit and remove warm air from the xerographic subsystem. If one or both fans run continuously, inspect the fan harnesses for shorts to the left door frame. To check the operation of the fans, enter dC330, code 80-015 left door fans. Refer to PL 80.11 Item 9 and WD 7.

Print Cartridge Cooling Fan

This fan draws air from the cavity below the horizontal transport or centre output tray, then directs the air flow via a duct onto the print cartridge. To check the operation of the fan, enter dC330, code 93-001 print cartridge fan. Refer to PL 90.15 Item 2 and WD 12.

OF7 IOT PWB Diagnostics RAP

Purpose

To assist in identifying any suspected problems with the IOT PWB. If directed here from another procedure, always return to that procedure.

Perform the IOT PWB corruption check before a new IOT PWB is installed. If the fault persists after completing this check, install a new IOT PWB.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the checks that follow:

- IOT NVM Corruption Check.
- IOT PWB Voltage Check.
- IOT PWB Communications Check.

Ensure the machine is in standby or run mode (power button is not illuminated).

IOT NVM Corruption Check

Corruption of the IOT NVM can cause paper jams, fuser temperature or xerographic control faults. Perform these steps before a new IOT PWB is installed.

Perform the steps that follow:

- Enter dC131 location 501-292, Photoreceptor and Developer Unit Age (number of cycles). Note the age value. Check when the print cartridge was installed, to ensure that the age value is correct.
- Go to dC301 NVM initialization.
- Select Domain = Copier.
- 4. Select, Sub Domain = Copy Controller.
- Select, NVM Data = All.
- Select Initialize.
- 7. Switch off, then switch on the machine, GP 14. Check if the fault persists.
 - If the fault does not occur, go to step 8.
 - If the fault persists, install a new IOT PWB, PL 1.10 Item 2.
- Perform dC604 Registration Setup Procedure.
- Enter dC131 location 501-349, TC Sensor Reading. Record the value on the NVM sheet stored in the wallet on the rear cover.
- Enter dC131 location 501-292, Photoreceptor and Developer Unit Age (number of cycles). Check that the value for the developer age is correct. Reset the value if required.
- 11. Perform SCP 5 Final Actions.

IOT PWB Voltage Check

1. On the IOT PWB, check that the LEDs that follow are on, Figure 1:

- CR13 Indicates the presence of +5V.
- CR16 Indicates the presence of +24V interlocked.
- CR51 Indicates the presence of +3.3V (generated on the IOT PWB).
- If no LEDs are on, or only CR13 is on, perform the 301H Short Circuits and Overloads RAP.

IOT PWB Communications Check

- Switch off, then switch on the machine, GP 14. With the front door and left door closed, the LEDs that follow should be observed on the IOT PWB, Figure 1:
 - CR13 on indicates the presence of +5V.
 - CR16 on indicates the presence of +24V interlocked.
 - CR50 flashing at about 2 Hz is the software heartbeat.
 - CR51 on indicates the presence of +3.3V (generated on the IOT PWB).
- If any of the above conditions still fail, then install a new IOT PWB, PL 1.10 Item 2.

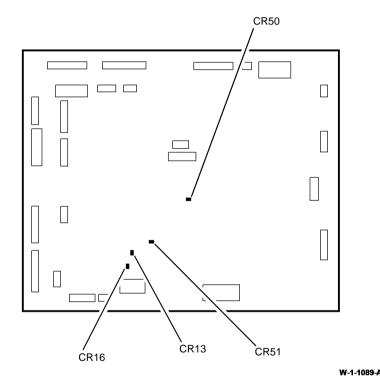


Figure 1 IOT PWB LED locations

OF8 Multi-feed RAP

To solve multi-sheet feeds or extra blank sheet output problems.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- For multi-feeds from the bypass tray, perform the 381-155-00 Late to Reg Sensor from Bypass Tray RAP.
- If multifeeds occur from tray 3 or tray 4, increasing the retard roll nip pressure will make the retard action more aggressive and may lessen the occurrence of multifeeds. Perform ADJ 80.3
- Check the condition of the paper. Do not use incorrectly cut paper, damp paper, paper with rough edges, badly drilled paper, paper with wrapper wax or glue contamination. Refer to IQ1 Image Quality Entry RAP.
- Check the paper specification, GP 20.

Procedure

When checking for multi-feeds always use a new ream of paper. If a new ream cannot be used, then perform the steps that follow:

- Fan the paper.
- Turn the paper round or turn the paper over.
- Remove 4or 5 sheets from the top of the stack.
- When loading multiple reams of paper into tray 3 or tray 4, remove the top and bottom sheet from each ream. This will prevent ream interface multi-feeds.

For tray 1 and tray 2, check the checks that follow:

- The paper tray side guides are set to the correct paper size.
- The paper tray drops when the tray is pulled out and the tray elevates when pushed in.
 - Check the paper feed assembly, REP 80.1.
 - Check the paper feed rolls, REP 80.18.
 - Install new components as necessary, PL 80.26.
- The paper trays for worn, broken or missing components.
 - Install new components as necessary, PL 70.10.

For tray 3 and tray 4, perform the steps that follow:

- Check the tray moves down when the tray is pulled out, and moves up when the tray is closed.
 - Check tray 3 paper feed assembly, REP 80.20.
 - Check tray 4 paper feed assembly, REP 80.21.
 - Install new components as necessary, PL 80.32, PL 80.33.
- Check the paper trays for worn, broken or missing components.
 - Install new components as necessary, PL 70.18 and PL 70.19.
- Perform ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure.

For the bypass tray, perform the steps that follow:

- Ensure that the customer is not filling the tray above the max fill line.
- Clean the feed roll and retard pad with a damp cloth with water.
- Install a new feed roll and retard pad assembly, PL 70.35.

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OF8 2-602

OF9 False Fuser End Of Life RAP

Use this RAP if the fuser module has prematurely reached its end of life, 250,000 prints.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC131 locations 658-131, 658-132 and 658-133. Check the fuser module image count. If the image count is unexpectedly high, 260,000 or greater, then the CRUM data is corrupted.

Procedure

Perform the checks that follow:

- 1. The wiring harness at PJ766. Repair the wiring as necessary, REP 1.2. Refer to WD 9.
- 2. For damage to the fuser CRUM connector, PL 10.8 Item 3.
- 3. For damage to the CRUM plug on the fuser module, PL 10.8 Item 1.

If the fault persists, go to the OF10 Intermittent Failure RAP. Perform the Electrostatic Discharge Checkout.

OF10 Intermittent Failure RAP

Use this RAP to locate failures when no specific cause can be found, i.e. if the machine resets to 'Ready to scan your job' or 'Please wait' during a print / copy run, or a fault code occurs which cannot easily be repeated.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

Perform the steps that follow to gather additional information about the fault:

- Ask the customer if there are any specific functions that cause the fault to occur; e.g. using the input or output module, or making reduced images.
- Select the **Machine Status** button on the UI. Select the **Active Messages** tab on the touch screen. Check the active messages and the fault history. If a fault code is raised when the failure occurs, perform the appropriate RAP.
- Make copies and observe where the paper stops and which components are switched on or off when the failure occurs.
- Check if there is a repetitive pattern to the failure.

Procedure

Go to the relevant checkout:

- Customer Power Supply Checkout.
- External Electrical Equipment Checkout.
- Common Causes Checkout.
- Connectors and Wiring Checkout.
- Power Supply Checkout.
- SD Card Checkout.
- Electric Motors Checkout.
- Solenoids and Clutches Checkout.
- Switches and Sensors Checkout.
- High Voltage Arcing Checkout.
- Registration Transfer Assembly Checkout.
- Print Cartridge Checkout.
- Electrostatic Discharge Checkout.
- Paper Trays Checkout.
- Output Device Checkout.

Customer Power Supply Checkout



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.



If you suspect that the customer power supply is incorrect, do not try to correct the customer power supply. Do not reconnect the printer. Inform the customer and your manager.

- Measure the customer power supply voltage at the power outlet and check that the customer power supply is within specification. Refer to GP 22 Electrical Power Requirements.
- Check that the customer power supply does not drop below the specification when the copier is making copies. Use a digital meter and select 'Peak Hold'. Refer to GP 22 Electrical Power Requirements.

External Electrical Equipment Checkout



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.



CAUTION

If you suspect that the customer power supply is incorrect, do not try to correct the customer power supply. Do not reconnect the machine. Inform the customer and your manager.

Perform the steps that follow:

- Ask the customer if there is any electrical equipment, which uses a large amount of current, that is connected to the same supply circuit as the machine.
- With the customer's assistance, check if the failure occurs when electrical equipment near to the machine is switched on or off.
- If possible, connect the machine to a different supply circuit from the equipment that is causing the problem.

Common Causes Checkout

Make the checks that follow of common causes of intermittent failures:

- Intermittent connections in the fuser connector assembly. Refer to 310-320-00 Fuser Control Failure RAP.
- The left door interlock switch, PL 1.12 Item 1, is fully actuated by the left door interlock. If the fault is eliminated when an interlock cheater is installed, check that the interlock actuator bracket is not damaged. Install new components as necessary.
- The front door interlock switch, PL 1.12 Item 1, is fully actuated by the front door interlock. If the fault is eliminated when an interlock cheater is installed, check that the interlock actuator bracket is not damaged. Install new components as necessary.

Connectors and Wiring Checkout

Refer to REP 1.2 for details of wiring harness repair.

Perform the checks that follow:

- For visible signs of damage to the wiring and the ribbon cables.
- For pinched wires near moving parts.
- The SPDH module harness for broken wiring. Ensure that the ground terminals are
- For the continuity of harnesses by checking for wire breaks inside insulation. Gently pull the relevant connector and wire while measuring continuity.
- That all the PWB and in-line connections are good. Refer to PJ Locations.
- The continuity of the ground connections. Refer to the 301A Ground Distribution RAP.
- That all the input and output module static eliminators are connected correctly and in good condition; refer to the relevant input or output module RAP.

Power Supply Checkout

Check the power cord for continuity. Refer to the 301C AC Power RAP.

SD Card Checkout

Check that all EPROMs are installed correctly. Refer to REP 3.4 SD Card.

Electric Motors Checkout

Refer to GP 10 How to Check a Motor and perform the steps that follow:

- Disconnect each motor in turn to locate the motor that is causing the fault. When the faulty motor has been located, install a new motor.
- If the fault persists, locate the PWB that drives the motor and install a new PWB.

Solenoids and Clutches Checkout

Refer to GP 12 How to Check a Solenoid or Clutch and perform the steps that follow:

- Check that the components are installed correctly.
- Check that there is no mechanical binding, slipping or interference.
- Enter the relevant output codes. Check that the energizing of the components is reliable. Check if the fault is caused when the components de-energize.
- If it is suspected that a clutch or solenoid is faulty, install a new component as necessary.
- If the fault persists, locate the PWB that drives the component and install a new PWB.

Switches and Sensors Checkout

Refer to GP 11 How to Check a Sensor, GP 38 How to Check an Adaptive Sensor and GP 13 How to Check a Switch. Perform the steps that follow:

- Check that the components are clean and installed correctly. Ensure that the wiring to the components is connected correctly.
- Enter the relevant input codes. Check that the sensing of the components is reliable. Check if the fault is caused when the components are actuated.
- If it is suspected that a switch or sensor is faulty, install a new component as necessary.
- If the fault persists, locate the PWB that controls the component and install a new PWB.

High Voltage Arcing Checkout

Use this Checkout when there are intermittent 34X-XXX failures and the suspect cause is high voltage arcing.

Refer to the 391A HVPS RAP and complete all of the actions to check the HVPS.

Registration Transfer Assembly Checkout

Perform the steps that follow:

- Check that the registration transfer assembly ground connections are good. Refer to 301A Ground Distribution RAP.
- Inspect the bias transfer roll for correct installation. If any damage or wear is identified, install a new bias transfer roll. PL 80.15 Item 3.
- Check the xerographic voltage distribution tracks, PL 90.10 Item 5, PL 90.10 Item 6 and PL 90.10 Item 7. Check for damage, signs of arcing, contamination or short circuit to ground. Refer to the 391A HVPS RAP.

Print Cartridge Checkout

Perform the steps that follow:

- Check the surface of the photoreceptor for damage. Ensure that the print cartridge is installed correctly.
- Check the print cartridge ground. Refer to 301A Ground Distribution RAP.
- Check the track (BCR), PL 90.10 Item 5 and the track (DEV), PL 90.10 Item 4. Check for damage, signs of arcing, contamination or short circuit to ground. Check the terminals on the print cartridge for signs of arcing. Refer to the 391A HVPS RAP.
- Inspect the print cartridge for damage and or incorrect assembly that may cause arcing.
- If no fault is found, install a new print cartridge, PL 90.17 Item 9.

Electrostatic Discharge Checkout

Perform the steps that follow:

- If the fault only occurs when feeding from a specific paper tray, perform the Paper Trays Checkout.
- Check that all components and connectors are seated correctly on the SBC PWB.

Paper Trays Checkout

Perform the steps that follow:

- Check that the tray 1 and 2 paper size sensing PWB outputs match the size of paper in the trays. Refer to RAPs 371-500-00 Tray 1 Open During Run RAP and 372-500-00 Tray 2 Open During Run RAP. Check that the control panel indicators display the correct size of paper.
- Perform the Electrostatic Discharge Checkout.
- Refer to the appropriate RAPs to check the operations of sensors, feed components and associated harnessing:
 - 381-106-00 Lead Edge Late to TAR 1 Sensor from Tray 1 RAP.
 - 381-126-00 Lead Edge Late to TAR 2 Sensor from Tray 2 RAP.
 - 381-136-00 Lead Edge Late to Tray 3 Feed Sensor RAP.
 - 381-146-00 Lead Edge Late to Tray 4 Feed Sensor RAP.
 - 381-155-00 Lead Edge Late to Registration Sensor from Bypass Tray RAP.

Output Device Checkout

To run the machine without the output device connected, use a finisher bypass connector, PL 26.10 Item 7. If the problem is cleared, then go to the appropriate output device.

- 2K LCSS. Check the items that follow:
 - Ground connection on the power cord. PL 12.75 Item 8.
 - Static eliminator on bin 0 entry, PL 12.60 Item 7.

- Static eliminator on the tamper assembly, PL 12.45 Item 5.
- Static eliminator on the bin 1 entry, PL 12.65 Item 7.
- Check that all of the connectors on the 2K LCSS PWB are pushed fully home.
 Ensure that all of the ground wires are connected to the frame.
- Check all the harnesses for damage and short circuit to ground.
- LVF BM. Check the items that follow:
 - Ground connection on the power cord, PL 12.425 Item 4.
 - Static eliminator on bin 0 entry, PL 12.370 Item 7.
 - Static eliminator on the tamper assembly, PL 12.355 Item 5.
 - Static eliminator on the bin 1 entry, PL 12.375 Item 7.
 - Static eliminator on the exit upper guide, PL 12.420 Item 9.
 - Check that all of the connectors on the LVF PWB and LVF BM PWB are pushed fully home. Ensure that all of the ground wires are connected to the frame.
 - Check all the harnesses for damage and short circuit to ground.

OF11 Toner Contamination RAP

Use this RAP if there is excessive toner contamination in the machine or on the customer's floor.

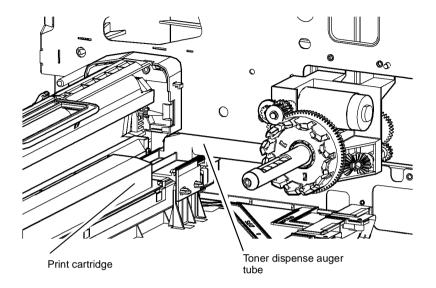
Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the checks that follow:

- The toner cartridge, PL 90.17 Item 2, is undamaged, and that the toner cartridge seal is undamaged.
- The print cartridge, PL 90.17 Item 9, is undamaged.
- The dispense module, PL 90.17 Item 1, is undamaged.
- The toner dispense auger tube engages correctly with the print cartridge, Figure 1.
- The xerographic voltage tracks on the HVPS tray assembly, PL 90.10 Item 1. Refer to the 391A HVPS RAP.
- The fault history file for any recent 391-XXX or 393-XXX fault codes. The contamination
 may be caused by a xerographic control fault. Perform the appropriate RAP.



W-1-1230-A

Figure 1 Component location

OF12 False Print Cartridge End of Life RAP

Use this RAP if the print cartridge has prematurely reached its end of life, 220,000 prints.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC131 locations 658-128, 658-129 and 658-130. Check the print cartridge image counts. If the total image counts are unexpectedly high, 220,000 or greater, then the CRUM data is corrupted.

Procedure

Perform the checks that follow:

- 1. The wiring harness at PJ513. Repair the wiring as necessary, REP 1.2. Refer to WD 9.
- For damage to the print cartridge CRUM connector, PL 60.35 Item 18. If necessary, install
 a new LED print head module, PL 60.35 Item 1.
- 3. Check that the print cartridge fan is working, refer to the OF6 Air Systems RAP.
- 4. For damage to the CRUM plug on the print cartridge, PL 90.17 Item 9. If necessary, install a new print cartridge, PL 90.17 Item 9.
- If the fault persists, go to the OF10 Intermittent Failure RAP and perform the Print Cartridge Checkout.

OF13 Convenience Stapler RAP

To identify problems with the convenience stapler.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Take care when measuring AC mains (line) voltage. Electricity can cause death or injury.



Incorrect voltage may damage the convenience stapler. The convenience stapler must not be connected to the power outlet if the voltage is incorrect.

NOTE: There are no serviceable components in the convenience stapler.

Check that the power lead is correctly connected to the convenience stapler, Figure 1. Check the AC mains (line) voltage at the customer power outlet. **The voltage measured is within the power requirements, GP 22.**

Y N

If the voltages are incorrect or the wiring of the main supply is found to be defective, inform your technical manager and the customer. Do not attempt to repair or adjust the customer supply.

Install a new convenience stapler, PL 25.10 Item 1.

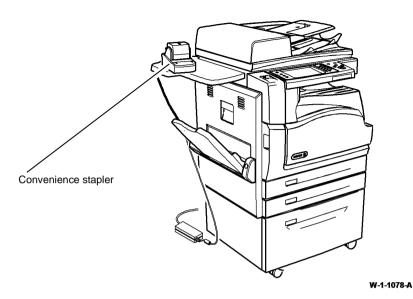


Figure 1 Component location

OF14 Xerox Extensible Interface Platform RAP

Use this RAP when experiencing faults with the Xerox Extensible Interface Platform (XEIP).

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. As necessary, perform the steps that follow:
 - Perform an AltBoot, GP 4. Ask the customer to resubmit the XEIP enablement file and restore XEIP settings.
 - Install a new UI control PWB, PL 2.10 Item 6.
 - Perform the 303D SBC PWB Diagnostics RAP.
- 2. Request the customer to check their network and software.

OF15 Xerox Secure Access RAP

Overview

Xerox Secure Access uses an external device, such as a card reader or biometric device, to authorize access to the machine. The reader passes the information to the machine, which handles the authentication process, including which UI screens are displayed, accepting UI responses that define their content and order. The machine can gather user identities and passwords directly from an external server. All communication is via the machine's connection to the ethernet. Refer to Figure 1.

Xerox Secure Access is controlled via CWIS. The active status is displayed in tools within Access Control. If communications cannot be established with the Xerox Secure Access Server, the service may be temporarily disabled by selecting the now enabled Off button within the Xerox Secure Access tools window. Once communication is re-established the stored Xerox Secure Access setting are restored.

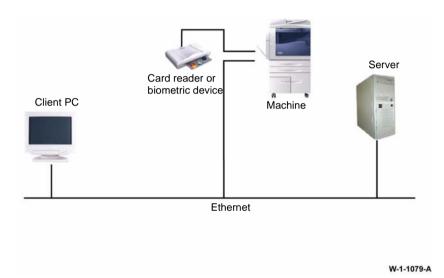


Figure 1 Network Diagram

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Before working on the Xerox Secure Access, test the machine in service mode, GP 1 to ensure no faults are displayed and that the machine is functioning properly. If it is not, repair any problems before proceeding with diagnosing the Secure Access Accessory. Service mode can be entered to test copier functionality when Secure Access is installed.

If the secure access device is an RFID type, go to the Xerox RFID Procedure, if not, continue below.

Perform the steps that follow:

- Check the connection between the card reader and the machine.
- Check that the card reader LED's are on or blinking. If the LEDs on the card reader are not operating, go to Card Reader Failure.
- If customers have problems of install/setting up, or any other problems related to their Secure Access Administrator, they should refer to the Installation/Administration Guide or contact Xerox Technical Support.

Card Reader Failure

The primary failure modes of the card reader are power problems or failed hardware components. The symptom of these failures can be detected by observing the LED on the card reader. Refer to Table 1. Go to the relevant procedure:

- The Green LED on the Card Reader is On.
- The Green LED on the Card Reader Flashes Rapidly.
- The Red LED on the Card Reader is On.
- The Red LED on Card Reader Flashes Slowly.
- The Red LED on Card Reader Flashes Rapidly.
- The Card Reader LED's are not On or Blinking.

Table 1 LED identification

| When the LED on the Card Reader is: | Meaning |
|-------------------------------------|--|
| Red | The authentication device is in idle mode; there is no active session. |
| Green | The authentication device is in ready mode; a session is active. |
| Slow flashing red | The authentication device has no connection to the server. |
| Slow flashing green | The authentication device is communicating to the server. |
| Fast flashing red | Invalid card / password; access denied. |

The Green LED on the Card Reader is On

- This indicates an active Secure Access Session and the Card Read correctly corresponds to a valid Secure Access Account.
- If the UI on the machine is locked, check with the customer for a second PIN for additional security. This PIN will need to be entered via the soft buttons on the UI.
- Ensure that the card corresponds to a valid Secure Access Account.

The Green LED on the Card Reader Flashes Rapidly

- This indicates a valid card swipe and the system is in process of authentication on the server.
- If the UI on the machine is locked, check with the customer for a second PIN for additional security. This PIN will need to be entered via the soft buttons on the UI.
- If the UI on the machine is locked and no secondary PIN is required. Check that the Xerox Secure Access is installed correctly, and ask the customer to check the configuration at the server.

The Red LED on the Card Reader is On

- This indicates the card reader is in an idle state. If the red LED remains on, and the UI remains locked after a card is swiped, re-orientate the card and re-swipe.
- Use a known good card in the reader. If the known good card works on the problem card reader, ask the customer to ensure the problem card corresponds to a valid Secure Access Account.
- Use the card in a known good card reader. If the card is working on a known good card reader, install a new card reader.

The Red LED on Card Reader Flashes Slowly

This indicates the reader is connected to the controller but the controller is not connected
to the server. Ensure the connectors of the LAN connections are working properly. If the
connections are working, this indicates the network may not work properly. Ask the customer to check with the Network Administrator.

The Red LED on Card Reader Flashes Rapidly

- This indicates a valid card but does not correspond to a valid Secure Access Account at the server. Test with a known valid user's card.
- If all cards react the same way, this indicates the server configuration may not be correct.
 Ask the customer to check the server configuration.
- If some cards react this way, this indicates the cards are not valid. Ask the customer to
 perform the checks that follow on the problem cards:
 - A properly formed certificate can be found on the card.
 - A personal identifier entered by the System Administrator can be validated against the card.
 - The card is not damaged or worn.

The Card Reader LED's are not On or Blinking

- Check that the Secure Access feature is correctly installed.
- If there is still no LED on the card reader, install a new card reader.

NOTE: if there is another working card reader available, the readers can be swapped to confirm failure.

- If the Card Reader is not functioning, CWIS has a setting that will enable UI keypad access. If the users know their card access number, they can use the machine by manually entering their number. The process is as follows:
 - Go to the machine's CWIS page. select Properties / Security. Check the box that says "Allow local user interface initiation".
 - Enable the keypad and test with valid credentials. This will validate the rest of the secure access function.
 - 3. Leave the system in this mode until the new card reader can be installed.

Xerox RFID Procedure

Remove the two screws securing the left frame cover, PL 28.10 Item 6, then turn over the cover to view the LEDs on the RFID card reader. The behavior of the LEDs is as follows:

- Neither LED lit reader is either not working or not connected (no power to reader).
- Steady green on approach reader is ready to read.
- After card is waved over the reader:
 - Steady green (i.e. LED state did not change) reader is not programmed for card type.
 - Flashing red card successfully read by reader, then UI indicates Login Successful login / Access Denied.

Procedure

NOTE: RFID card readers fitted to Xerox machines can be from many different manufacturers. If the RFID device is installed inside the cover of the machine it can only be of Elatec manufacture. If this procedure asks for support from the card reader manufacturer, Elatec contact details are given at the end of the procedure.

Present a valid access card to the RFID area. The UI un-locks and job programming can be done.

,

Ν

If necessary, remove the cover to view the LEDs on the RFID device. **The green LED is on.**

Y N

The machine may be in power save or sleep mode. Wake the machine and allow it to reach the ready state. Present a valid access card to the RFID area. The UI unlocks, job programming can be done and the green LED is on.

/ N

Logon to the machine Web Page as Administrator. If the card reader is not shown as connected, verify that the physical USB connection is good. Verify the USB port by plugging in a thumb drive and perform either a scan to USB or a print from USB and verify the machine functions correctly. **The card reader is now working.**

Y N

D

A B C

The RFID reader can be plugged directly into any personal computer and tested independent from the machine.

- 1. Remove the Integrated RFID card reader from the machine.
- Connect the RFID card reader to a personal computer USB port.
- Open a document application which can receive text as input (Microsoft Word, Notepad, Xcel).
- 4. Wave an RFID card over the card reader.

The serial number of the RFID card is displayed in the application.

N

The card reader needs to be de-bugged, escalate the problem to software support/second level support or the post sales analyst team, via the usual software/solution escalation process. If necessary look for the manufacturers mark on the card reader and contact their support team.

The RFID card reader is working properly, install the card reader back in the machine. The physical USB connection of the reader to the machine is good.

N

Repair the USB connection or install new parts.

The card reader needs to be de-bugged, escalate the problem to software support/second level support or the post sales analyst team, via the usual software/solution escalation process. If necessary look for the manufacturers mark on the card reader and contact their support team.

The problem is resolved.

The problem is resolved.

The LED turns red and a beep is heard when the card is presented.

1

This card has worked in the past.

/ |

The card is unrecognizable or is a new card. The System Administrator will need to re-program the reader to accept this card. If necessary escalate the problem to software support/second level support or the post sales analyst team, via the usual software/solution escalation process. If necessary look for the manufacturers mark on the card reader and contact their support team.

The card reader needs to be de-bugged, escalate the problem to software support/ second level support or the post sales analyst team, via the usual software/solution escalation process. If necessary look for the manufacturers mark on the card reader and contact their support team.

Attempt to authorize use of the machine using the PIN. PIN authorisation works.

Y N

Print a configuration report from the machine and compare the secure access settings to a configuration report from a working machine.

Verify that the Xerox Secure Access Server is online. If necessary escalate the problem to software support/second level support or the post sales analyst team, via the usual software/solution escalation process.

Attempt to use the card on another machine with a card reader on which the card is authorized. The card is accepted on this other machine.

1

Verify the Xerox Secure Access Server configuration. View CentreWare Internet Services to check the settings. Secure Access settings are in Properties > Login/Permissions/Accounting. If necessary escalate the problem to software support/second level support or the post sales analyst team, via the usual software/solution escalation process.

Perform a Network Clone Procedure. Save the clone file from a known working machine, then install the clone file on to this machine.

The RFID device is operating correctly.

Elatec Support

Elatec can be contacted at:

- North America sales and customer support:
 - Email: Sales-ElatecUSA@elatec.com.
 - Phone +1 772 210 2263.
- Rest of the world sales and customer support:
 - Email: Sales-RFID@elatec.com.
 - Phone +49 89 5529961 0.
- Elatec technical support, Email: Support-RFID@elatec.com.

OF16 USB Keyboard RAP

Use this RAP if an optional external keyboard fails to communicate with the machine.

Overview

The optional USB keyboard feature enables the customer to connect a standard USB keyboard to the machine. This allows textual input to, and navigation between fields on the UI screen.

NOTE: This feature requires SMP1 or higher software.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

The machine software version is SMP1 or higher.

Υ

Load new machine software, GP 4.

The USB keyboard is plugged into a USB port on the machine.

N

Connect the USB keyboard to a USB port on the machine.

Print a configuration report. Check the configuration report under the heading Connectivity Physical Connections. **Software Tools is listed next to USB Connection Mode.**

N

Ask the customer to enable USB. Or enter Customer Administration Tools, GP 24. Enable USB:

- Refer to the USB Port Security Setting Check in GP 4.
- Refer to GP 28 USB Connection Mode.

Check that the USB port is functional by connecting a USB flash drive to the USB port, then perform a dC131 NVM save. The NVM save was successfully saved to the USB flash drive.

N

NOTE: It is not necessary to perform the NVM restore procedure.

Perform the 303D SBC PWB Diagnostics RAP.

Connect the USB keyboard to the PWS or ask the customer to connect the USB keyboard to a computer. **The USB Keyboard functions correctly.**

Y N

Ask the customer to install a different USB keyboard.

Perform SCP 5 Final Actions.

3 Image Quality

Image Quality RAPs

| IQ1 Image Quality Entry RAP | 3- |
|---|------|
| IQ2 IOT IQ Defects RAP | 3-1 |
| IQ3 Xerographic RAP | 3-3 |
| IQ4 Fuser Module RAP | 3-3 |
| IQ5 Print Damage RAP | 3-3 |
| IQ6 Narrow Bands RAP | 3-3 |
| IQ7 Document Glass and Scanner IQ Defects RAP | 3-3 |
| IQ8 IOT Skew RAP | 3-3 |
| IQ9 Unacceptable Received Fax Image Quality RAP | 3-4 |
| IQ10 Copy Quality Improvement RAP | 3-4 |
| IQ11 Print Quality Improvement RAP | 3-4 |
| IQ12 Side 2 Scanner IQ Defects RAP | 3-4 |
| Image Quality Specifications | |
| IQS 1 Solid Area Density and Tone Reproduction | 3-4 |
| IQS 2 Background | 3-48 |
| IQS 3 Fusing | 3-49 |
| IQS 4 Resolution | 3-5 |
| IQS 5 Skew | 3-5 |
| IQS 6 Copy / Print Defects | 3-5 |
| IQS 7 Registration | 3-5 |
| IOS 8 Magnification | 3-50 |

IQ1 Image Quality Entry RAP

Use this RAP to determine the source of an image quality problem.

Initial Actions

Refer to Figure 1 for print/copy definitions.

Perform the steps that follow:

 Discuss the IQ problem with the customer to fully understand the defect and the modes in which it occurs. Produce the customer job that displays the customer's IQ defect.

NOTE: If the customer is using Toner Save mode, explain that this will lighten the image to save toner. Standard mode (toner save disabled) should be used for image quality problem solving.

NOTE: When border erase is switched off, an image defect within 5mm of the sheet edge is acceptable. Border erase only affects the printed image from the IOT, so scanned images saved to USB stick will have edge to edge images.

- Enter Customer Administrator Tools, GP 24. Press the Machine Status button. Select Tools / Service Settings / Copy Service. Disable the Toner Saver mode if it is not already disabled. At the end of the IQ procedure, set the Toner Saver mode back to the original setting.
- Check the condition of the paper. Do not use incorrectly cut paper, damp paper, paper with rough edges, badly drilled paper, paper with wrapper wax or glue. Paper and media should be stored flat, enclosed in wrappers, in a cool dry environment.
- Check that the paper is within specifications, GP 20.
- Check that paper tray guides are set to the correct paper size.
- Check that the document guides on the SPDH are set correctly.
- Check the original documents for defects. If the documents are damaged passing through the SPDH, perform the 305D Damaged Documents RAP.
- Go to dC122 Fault History. Check for any fault codes associated with the print cartridge, fuser module, LED print head or the paper path from the registration roll, PL 80.17 Item 5 to the fuser module, PL 10.8 Item 1. These may contribute to image quality faults. If found, fix these faults before continuing with this RAP.
- Clean the paper path sensors that follow:
 - Tray 1 TAR sensor, PL 80.10 Item 5.
 - Tray 2 TAR sensor, PL 80.10 Item 5.
 - Registration sensor, PL 80.17 Item 7.

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device, you may have to enter login details to access the Scan To features.

Procedure

Enter dC612 Print Test Patterns. Select test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ). Select simplex. Select quantity 3. Select Start Test. The printed image of the second print is good, with reference to IQS 1 Solid Area Density and Tone Reproduction.

Ν

Perform the actions that follow:

- Check the condition of the paper. Do not use incorrectly cut paper, damp paper, paper with rough edges, badly drilled paper, paper with wrapper wax or glue. Paper and media should be stored flat, enclosed in wrappers, in a cool dry environment.
- Check that the paper is within specifications. Refer to GP 20.
- Check that paper tray guides are set to the correct paper size.
- Check the original documents for defects. If the documents are damaged passing through the SPDH, perform the 305D Damaged Documents RAP.
- Ensure that the image adjustment mode selections are those used by the customer.
- Perform ADJ 60.4 LED print head Cleaning.

Produce the customer job that displays the customer's IQ defect. **The** image quality fault persists.

Y N

Perform SCP 5 Final actions.

Select a suitable internal test pattern to diagnose the IQ problem. If necessary, refer to IQ1 Internal Test Patterns for:

- A description of image quality defects together with the optimum internal test pattern to be used to diagnose the IQ defect, Table 1.
- A chart of the internal test pattern descriptions together with their intended use, Table 2.
- Example images of all internal test patterns, Figures 2 to 20.

Enter dC612 Print Test Patterns. Select the required internal test pattern. Select simplex. Select Start Test. The printed image of the internal test pattern is good.

Y 1

Perform the IQ2 IOT IQ Defects RAP.

Check the back of the prints for toner contamination. The back of the prints are clean.

Y N

Perform the IQ2 IOT IQ Defects RAP.

Select a suitable duplex internal test pattern. Select duplex. Select Start Test. The printed images of the internal test pattern are good.

Y

Perform the IQ2 IOT IQ Defects RAP.

Check the prints for damage. The prints are good.

Y |

Perform the IQ5 Print Damage RAP.

If a fax module is installed, send a test fax to the machine. The fax image quality is good.

Y 1

B C

Compare the fax print with an internal test pattern print. The fax print and the internal test pattern print display the same defect.

.

Perform the IQ9 Unacceptable Received Fax Image Quality RAP.

Image Quality

Α

No specific image quality defect has been identified. If necessary, modify the print quality to meet the customer requirements. Refer to the IQ11 Print Quality Improvement RAP.

Make a simplex scan to USB file of test pattern 82E2010 (A4) or 82E2020 (8.5 x11inch) from the document glass. Ensure that the test pattern is correctly registered against the document guides and is not disturbed when the SPDH is lowered. Select quantity 3. View the resultant file on a computer screen. **The file image of the second image is good.**

Y N

Perform the IQ7 Document Glass and Scanner IQ Defects RAP.

Place the test pattern 82E2010 (A4) or 82E2020 (8.5 x11inch) face down in the SPDH input tray. Check the document guides on the SPDH are set to just touch the test pattern. Make a duplex scan to USB file. Select quantity 3. View the resultant file on a computer screen. **The file image for side 2 of the second image is good.**

N

Perform the IQ12 Side 2 Scanner IQ Defects RAP.

No specific image quality defect has been identified. If necessary, modify the print quality to meet the customer requirements. Refer to the IQ11 Print Quality Improvement RAP.

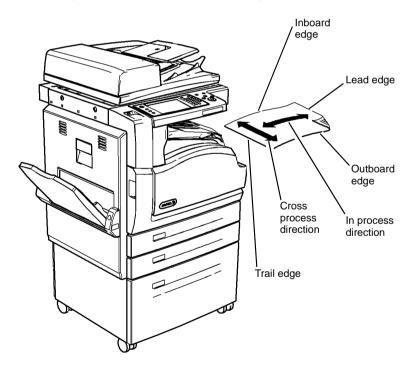


Figure 1 Print/copy definitions

IQ1 Internal Test Patterns

Table 1 defines the image defect, gives a description of the defect and identifies the optimum test pattern to be used, together with a link to an example image of the test pattern.

Table 2 describes the test patterns and the purpose for which they should be used to identify image quality defects.

To access internal test patterns, refer to dC612 Print Test Pattern. Use the test patterns listed in Table 1 for image quality analysis. The other test patterns are designed for the use of initial machine calibration by the manufacturer.

W-1-1229-A

| Image Quality Defect | Description of Defect | Optimum Internal Test Pattern | Example Test Pattern Image |
|--|---|---|--|
| Background | Uniform darkening across all the non print areas. | 1 | Figure 2 |
| Bands in the process direction | Grey to dark bands in the light or non-image areas of the print in the process direction. | 2 3 | Figure 3 Figure 4 |
| Bands in the cross process direction | Grey to dark bands in the light or non-image areas of the print in the cross process direction. See also narrow bands in the cross process direction. | 2 3 | Figure 3 Figure 4 |
| Black bands in the cross pro- cess direction | Black bands in the light or non-image areas of the print in the cross process direction. | 3 | Figure 3 Figure 4 |
| Black image | A print that is black or grey all over, but has no visible image of the original document. | 1 | Figure 2 |
| Black lines in the process direction | Black lines in the light or non-image areas of the print in the process direction. | 3 | Figure 3 Figure 4 |
| Blank image | No visible image. | 3 | Figure 4 |
| Blurred image | Part or whole of the image has the appearance of being out of focus. Refer to IQS 4 Resolution. | 9 11, 12, 13, 14 (side 1) 11, 12, 13, 14 (side 2) 22 | Figure 10 Figure 12 - Figure 13 - Figure 21 |
| Dark grey copies or prints are too dark | Dark grey tones are reproduced too dark. | 15 | Figure 14 |
| Dark prints | Very dark background with a visible image. | 1 11, 12, 13, 14 (side 1) 11, 12, 13, 14 (side 2) | Figure 2 Figure 12 - Figure 13 |
| Deletions | Areas of the image missing from the print. Deletions may be in the form of white spots, marks, lines, or whole areas of toner missing from the print. | 2 3 4 9 | Figure 3 Figure 4 Figure 5 Figure 10 |
| Developer beads on print | Developer beads in the light or non-image areas of the print. | 1 2 | Figure 2 Figure 3 |
| Displaced and fragmented image | Distorted images, part images and missing images. Images that are on the page but in the wrong place. | 3 9 11, 12, 13, 14 (side 1) 11, 12, 13, 14 (side 2) | Figure 4 Figure 10 Figure 12 - Figure 13 |

| | Table I illiage quality delects | 1 | |
|--|--|--|-------------------------------------|
| Image Quality Defect | Description of Defect | Optimum Internal Test Pattern | Example Test Pattern Image |
| Light copies or | The image is visible on the print, but with insufficient | 5 | Figure 6 |
| prints | solid area density. | 8 | Figure 9 |
| | | 21 | Figure 20 |
| Light grey | Light grey tones are reproduced too light. | 15 | Figure 14 |
| copies or | | 21 | Figure 20 |
| prints are too | | | |
| light | | | |
| Marks and | Dark marks or spots in the non-image areas of the | 1 | Figure 2 |
| spots | print. | 2 | Figure 3 |
| Misregistration | The image on the paper is Misregistered. Refer to IQS 7 Registration. | 9 | Figure 10 |
| Narrow Bands in the cross process direc- tion | Bands across the process direction visible in halftone areas. | 4 | Figure 5 |
| Offsetting | A previous image that was not removed from the fuser roll during transfer. The image is repeated at regular intervals. | 7 | Figure 8 |
| Part images | Incomplete or missing images. | 3 | Figure 4 |
| and missing | | 9 | Figure 10 |
| images | | 11, 12, 13, | Figure 12 |
| | | 14 (side 1) | |
| | | 11, 12, 13, | Figure 13 |
| | | 14 (side 2) | - Figure 04 |
| 5 | | 22 | Figure 21 |
| Print damage | Creases, curl, cuts, folds, wrinkles, or embossed marks are visible on the print. | 3 | Figure 4 |
| Repeat image | Repeated image defects that are not obviously off- | 7 | Figure 8 |
| defects | setting or residual. | 11, 12, 13, | Figure 12 |
| | | 14 (side 1) | - 10 |
| | | 11, 12, 13, 14 (side 2) | Figure 13 |
| Residual | A previous image that was not removed from the | 7 | Figure 8 |
| image | photoreceptor during the cleaning cycle. | 11, 12, 13, | Figure 12 |
| | | 14 (side 1) | - Figure 40 |
| | | 11, 12, 13, 14 (side 2) | Figure 13 |
| Scrambled | An image on the page that is broken, mixed-up or | 3 | Figure 4 |
| image | confused. | 9 | Figure 10 |
| | | 11, 12, 13, | Figure 12 |
| | | 14 (side 1) | - 40 |
| | | 11, 12, 13, | Figure 13 |
| | | 14 (side 2) | |

Table 1 Image quality defects

| Image Quality Defect | Description of Defect | Optimum Internal Test Pattern | Example Test Pattern Image |
|---|--|--|---|
| Rotated image | degrees to the image printed on the original document. | 11, 12, 13, 14 (side 1) 11, 12, 13, 14 (side 2) | Figure 12 - Figure 13 |
| Skew | A difference in angular alignment between image on the print and the original document. | 9 | Figure 10 |
| Skips | Loss or stretching of the image, and compression of the image, in bands across the process direction. | 9 | Figure 10 |
| Smears | Loss or stretching of the image, and compression of the image, in bands across the process direction. | 9 | Figure 10 |
| Smudges | Dark marks extending from image areas of the page. | | Figure 4 |
| Streaks in the process direction | Lines on the print, in the process direction of the non- image area. | 2 | Figure 3 Figure 4 |
| Stretched and distorted images | The image on the paper is stretched or distorted. | 9 | Figure 10 |
| Toner contam- ination on the back of prints | Random black spots or marks. | 2 | Figure 3 |
| Uneven den- sity or non uni- form image | Variation in image density across the print. | 3 22 | Figure 4 Figure 21 |
| Unfused prints | The toner image on the finished print is not fused to the print medium. | 7 | Figure 8 |
| White lines in the process direction | White lines in the dark or image areas of the print in the process direction. | 2 | Figure 3 Figure 4 |
| White spots | White spots are areas visible on a half tone or solid area where the toner has failed to be deposited. | 2 3 4 9 | Figure 3 Figure 4 Figure 5 Figure 10 |

Table 2 Internal test patterns

| Internal | | | |
|---------------------------|---|--|--|
| Test Pattern Number | Name | Intended Use | Sample Illustration |
| 1 | ITP 1 0% coverage | Use for background defects spots and scratches. | Figure 2 |
| 2 | ITP 3 25% halftone (106dpi 45deg) | Use for light density uniformity, deletions, lines, bands and streaks. | Figure 3 |
| 3 | ITP 5 50% halftone (106dpi 45deg) | Use for uniformity, fuser defects, lines, bands, streaks and smears. | Figure 4 |
| 4 | ITP 8 Perpendicular lines (2on/2off) | Use for motion quality. ROS, developer, registration transport, fuser and intermediate gear trains. | Figure 5 |
| 5 | ITP 11 Original IOT TRC+MQ | Use to check solid area density and tone reproduction. | Figure 6 |
| 6 | ITP 12 Perpendicular bands (1 inch on/1 inch off) | Use for solid area reproducibility, checking fusing, stripper finger marks, solid area, offsetting and cleaning. | Figure 7 |
| 7 | ITP 14 Black band (off, 4.75inch on/1.75inch on) | Use for fuser offsetting and cleaning failure. Stress test for stripping from the fuser. | Figure 8 |
| 8 | ITP 15 Step-wedge (106dpi 45deg) | The 50% wedge is used for checking IOT darkness. | Figure 9 |
| 9 | ITP 16 Quadrille lines (4 on/60 off) | Use to check for deletions, skew and skips. | Figure 10 |
| 10 | ITP 17 Registration print | Use to check registration and skew. | Figure 11 |
| 11 | ITP 19 Field test print (letter) | Use to check registration, skew, resolution, uniformity, streaks and bands. | Figure 12 and Figure 13 (2 pages) |
| 12 | ITP 19 Field test pattern (A4) | Use to check registration, skew, resolution, uniformity, streaks and bands. | Figure 12 and Figure 13 (2 pages) |
| 13 | ITP 19 Field test pattern (A3) | Use to check registration, skew, resolution, uniformity, streaks and bands. | Figure 12 and Figure 13 (2 pages) |
| 14 | ITP 19 Field test pattern (11x17) | Use to check registration, skew, resolution, uniformity, streaks and bands. | Figure 12 and Figure 13 (2 pages) |
| 15 | IQAF TP 3 Gen. Eng. Test | For service engineer's general use. | Figure 14 |
| 16 | IQAF TP 16 Large Squares | For service engineer's general use. | Figure 15 |

Table 2 Internal test patterns

| Internal Test Pattern Number | Name | Intended Use | Sample Illustration |
|---------------------------------------|----------------------------------|--|------------------------|
| 17 | IQAF TP 21 Piano Keys (11x17) | For service engineer's general use. | Figure 16 |
| 18 | IQAF TP 36 | For service engineer's general use. | Figure 17 |
| 19 | IQAF Smear (11x17inch) | For service engineer's general use. | Figure 18 |
| 20 | 100% coverage | For service engineer's general use. | Figure 19 |
| 21 | ITP 11 Error Diffused IOT TRC+MQ | Use to check solid area density, tone reproduction and resolution. | Figure 20 |
| 22 | LPH_Focus_5_10ED_Rev2 | Use to check xerographic set up and LED print head focus. | Figure 21 |

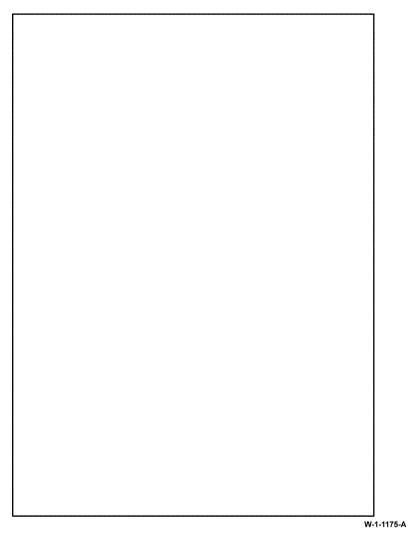
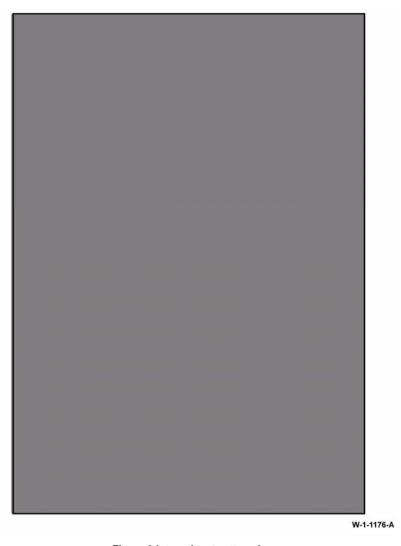


Figure 2 Internal test pattern 1



W-1-1177-A

Figure 3 Internal test pattern 2

Figure 4 Internal test pattern 3

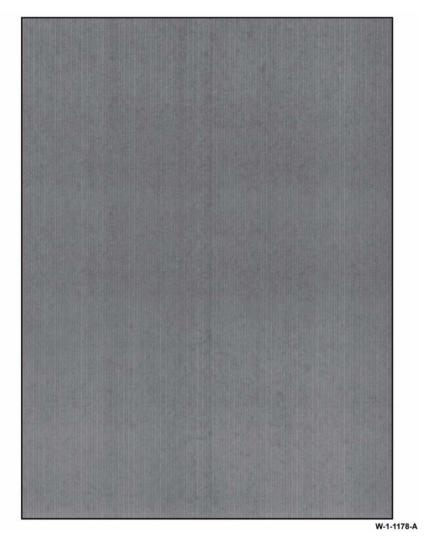


Figure 5 Internal test pattern 4

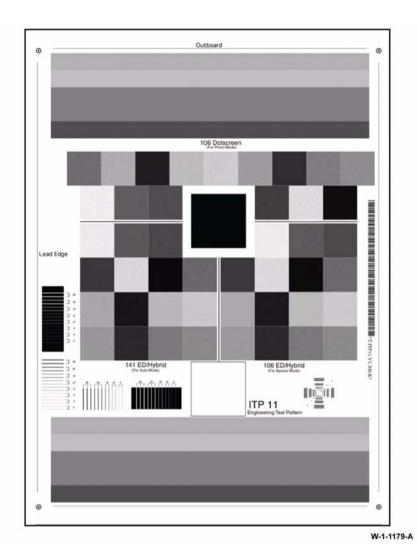
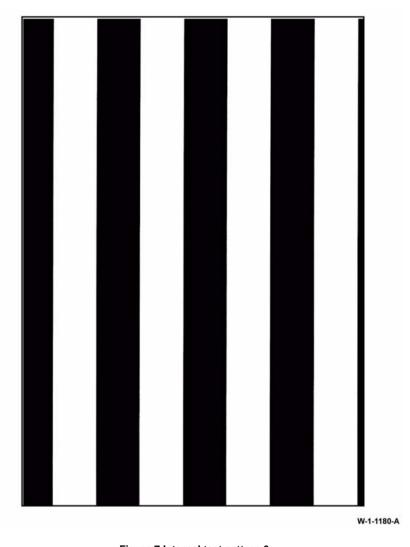


Figure 6 Internal test pattern 5



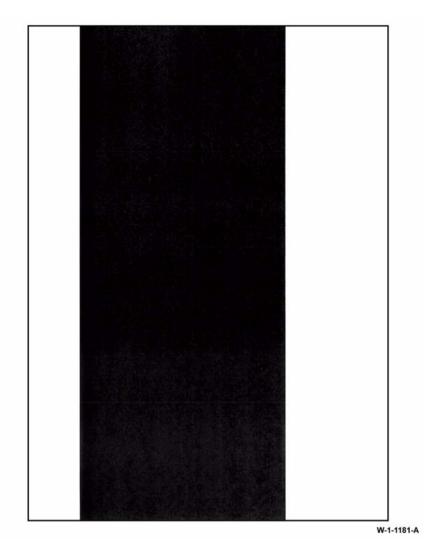


Figure 7 Internal test pattern 6

Figure 8 Internal test pattern 7

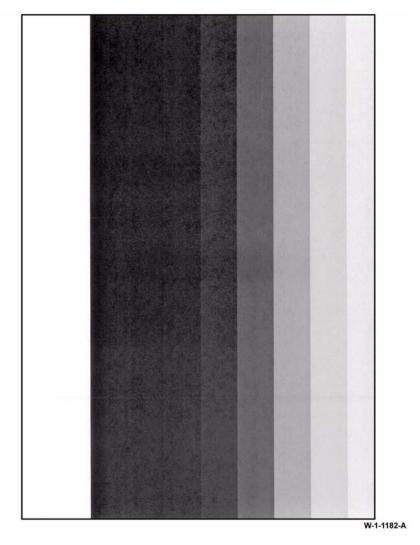


Figure 9 Internal test pattern 8

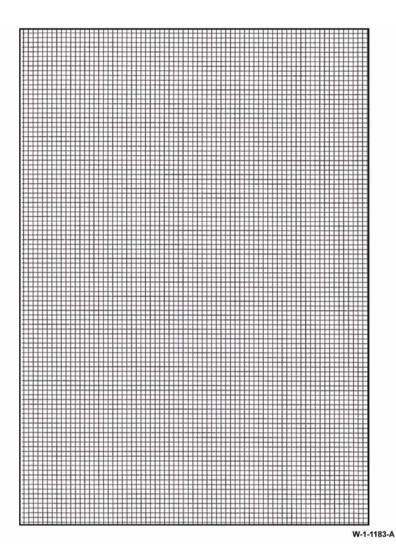


Figure 10 Internal test pattern 9

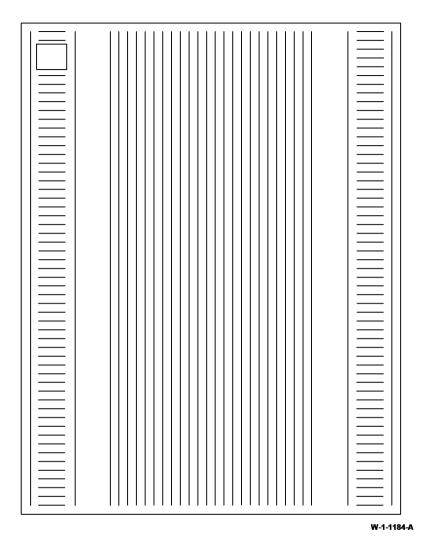


Figure 11 Internal test pattern 10

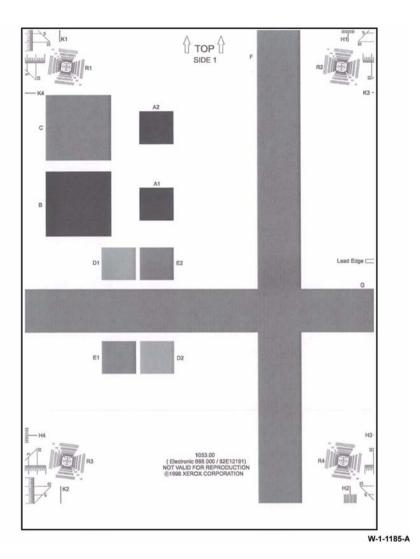


Figure 12 ITP 11, 12 13 and 14 (side 1)

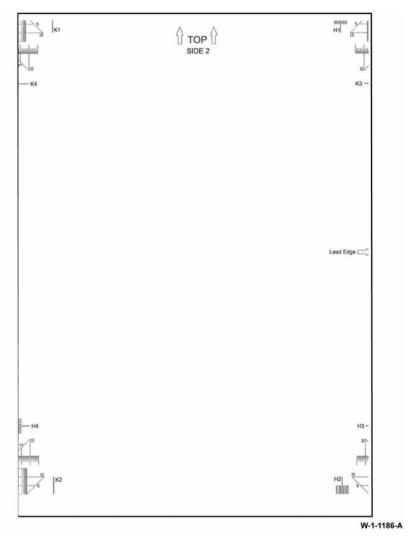


Figure 13 ITP 11, 12 13 and 14 (side 2)

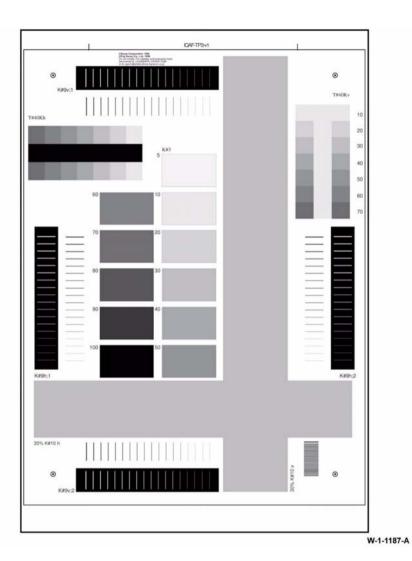


Figure 14 Internal test pattern 15

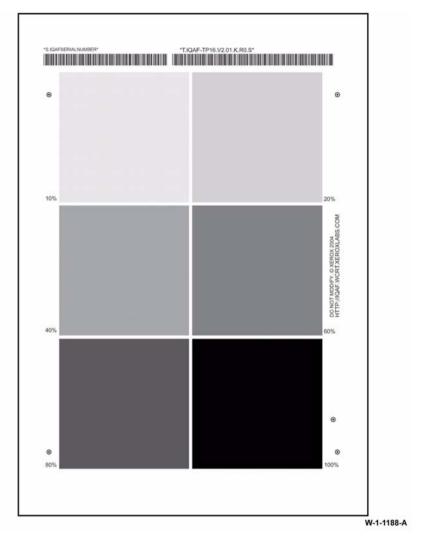


Figure 15 Internal test pattern 16

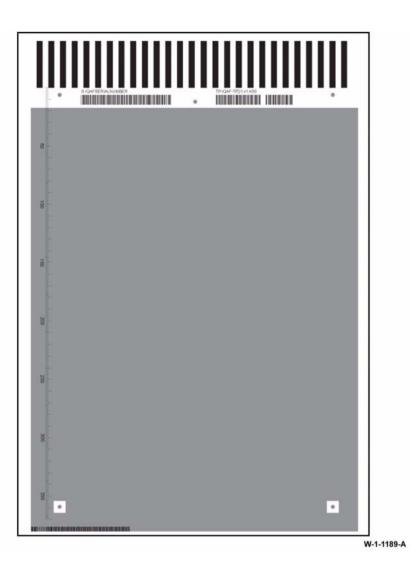


Figure 16 Internal test pattern 17

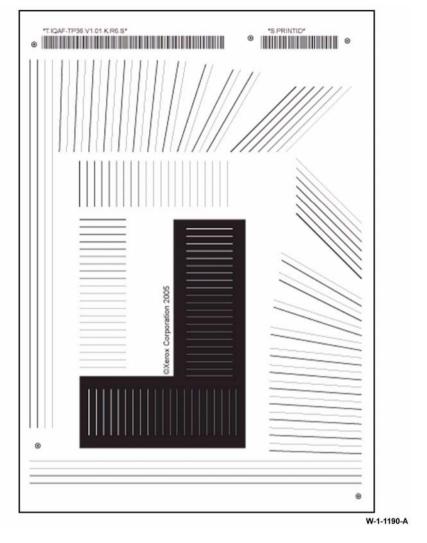


Figure 17 Internal test pattern 18

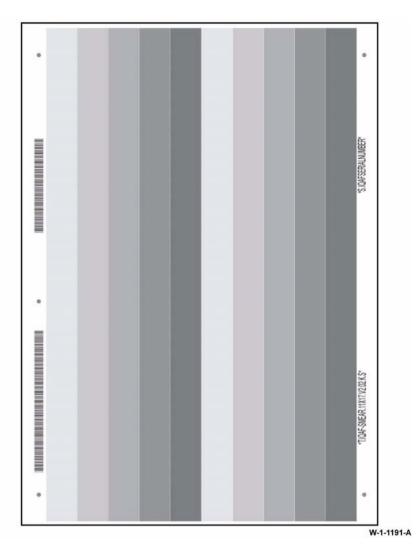


Figure 18 Internal test pattern 19



Figure 19 Internal test pattern 20

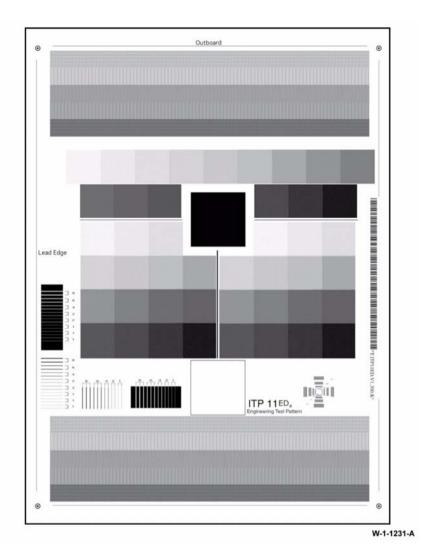
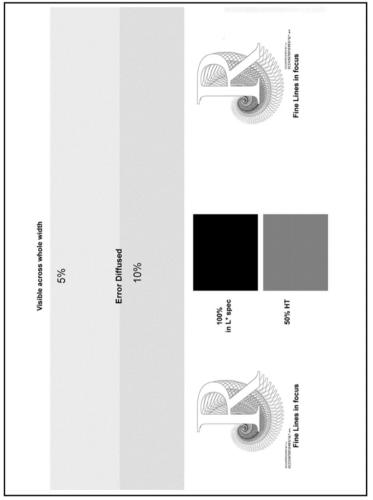


Figure 20 Internal test pattern 21



W-1-1461-A

Figure 21 Internal test pattern 22

IQ2 IOT IQ Defects RAP

Use this RAP to resolve image quality defects produced in the IOT.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

When border erase is switched off, an image defect within 5mm of the edge of the sheet is acceptable.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Check the fault log for the fault codes that follow: 93-360, 93-361, 93-362, 93-364, 93-390. If any of the codes are displayed, perform the 393-390-00 Toner Cartridge Empty RAP or the 393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP.

Procedure

Go to the appropriate image quality defect and perform the appropriate action.

- Background.
- Bands in the Process Direction.
- Bands in the Cross Process Direction.
- Black Bands in the Cross Process Direction.
- Black Image.
- Black Lines in the Process Direction.
- Blank Image.
- · Blurred Image.
- Dark Grey Copies or Prints are Too Dark.
- Deletions.
- Developer Beads on the Print or Copy.
- Displaced, Fragmented or Scrambled Image.
- Light Copies or Prints.
- Misregistration.
- Mottled Copies or Prints.
- Narrow Bands in the Cross Process Direction.
- Part images and missing images.
- Print Damage.
- · Repeated Image Defects.
- Skew.
- Skips.
- Smears.
- Smudges.
- Streaks in the Process Direction.

- Toner Contamination on the Back of Prints.
- Uneven Density or Non Uniform Image.
- Unfused Prints.
- · White Lines in the Process Direction.
- White Spots.

Background

Description

Uniform darkening across all the non print areas.

Procedure

Refer to IQS 2 Background. Perform the IQ3 Xerographic RAP.

Bands in the Process Direction

Description

Grey to dark bands in the light or non-image areas or white bands in the grey areas of the print in the process direction.

Procedure

White bands on a grey or dark dusting. Check for developer leakage. Go to the IQ3 Xerographic RAP and perform the Print Cartridge Checkout.

Bands that are formed by a difference in density of one band to the next. Typically there are 1 or more image defects in the form of process direction bands that are 8mm (0.3 inch) wide, or multiples thereof. Go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.

Bands in the Cross Process Direction

Description

Grey to dark bands in the light or non-image areas of the print in the cross process direction. See also Narrow Bands in the Cross Process Direction.

Procedure

Bands that are formed by a difference in density of one band to the next. Go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.

If the bands resemble Figure 4, the bands may have been caused by the LED print head being energized while the photoreceptor was stationary. Perform the procedures that follow:

- 392A Print Cartridge Motor Failure RAP.
- 361-100-00 LED Print Head Data Integrity Failure RAP.

If the bands resemble Figure 7 or Figure 13, the bands may have been caused by an intermittent loss of bias charge roll voltage. Perform the 391A HVPS RAP.

If the bands resemble Figure 14, the bands may have been caused by a poor contact on the drive shaft to the photoreceptor. Go to the 301A Ground Distribution RAP and perform the Print Cartridge Ground procedure.

Black Bands in the Cross Process Direction

Description

Black bands in the light or non-image areas of the print in the cross process direction.

Procedure

Perform the 391A HVPS RAP.

Black Image

Description

A print that is black or grey all over, but has no visible image of the original document.

Procedure

If both the print and the copy are completely black, go to the 391A HVPS RAP and check the charge circuit to the print cartridge.

Black Lines in the Process Direction

Description

Black lines in the light or non-image areas of the print in the process direction.

Procedure

Perform the steps that follow:

- If there are dark lines that are continuous from edge to edge of the image, install a new print cartridge, PL 90.17 Item 9.
- Check the LED print head module:
 - Check the camming mechanism is working correctly.
 - Check that there is no debris that would position the LED print head too close to the photoreceptor.
 - Clean the LED print head, ADJ 60.4.
 - If necessary install a new LED print head module, PL 60.35 Item 1.
- If the fault persists, perform the IQ3 Xerographic RAP.

Blank Image

Description

No visible image.

Procedure

Perform the steps that follow:

- If the blank images are additional output, perform the OF8 Multifeed RAP.
- Check the print cartridge drives:
 - Open the left door and cheat the left door interlock switch.
 - Enter dC330 code 093-045, print cartridge motor.
 - 3. Figure 2, Observe the surface of the photoreceptor in the print cartridge.
 - Select Stop.
 - 5. If the photoreceptor failed to turn, check the components that follow:
 - Photoreceptor dog gear, PL 40.15 Item 10.
 - Dowel pin, PL 40.15 Item 4.

- Spring, PL 40.15 Item 9.
- Print cartridge, PL 90.17 Item 9.
- Main drive module. Refer to the 392A Print Cartridge Motor Failure RAP.

If necessary, install new components.

- 6. If the photoreceptor turned, continue below.
- Check the print cartridge development:
 - 1. Open the left door and cheat the left door interlock switch.
 - Enter dC330 code 091-078. Developer Bias DC.
 - Figure 2, observe the surface of the photoreptor in the print cartridge, rotate the flywheel, PL 40.15 Item 2 in the normal direction. A solid area of toner should appear on the surface of the photoreceptor.
 - 4. Select Stop.
 - If the solid area of toner failed to appear, perform the 391A HVPS RAP and check the developer bias supply to the print cartridge.
 - If the solid area of toner did appear, go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.

Blurred Image

Description

Part or whole of the image has the appearance of being out of focus.

Procedure

Refer to IQS 4 Resolution and Figure 10. Perform the steps that follow:

- 1. Use a new ream of paper.
- 2. Go to IQ3 and perform the LED Print Head Checkout.
- Perform the 391A HVPS RAP and check the bias transfer supply to the bias transfer roll.

Dark Grey Copies or Prints are Too Dark

Description

Dark grey tones of the image are reproduced too dark.

Procedure

Perform the IQ11 Print Quality Improvement RAP.

Deletions

Description

Areas of the image are missing from the print. Deletions may be in the form of white spots, marks, lines, or whole areas of toner missing from the print.

Procedure

Perform the steps that follow:

- Check that the paper tray settings match the paper type and size in the trays.
- If the deletions are on side 2 of a duplex print or copy, perform the IQ5 Print Damage RAP.
 Also refer to the White Lines in the Process Direction defect.
- If the deletions are small spots, this can be caused by developer beads on the image.
 Refer to Developer Beads on the Print or Copy.

- Check the photoreceptor for fingerprints or other marks. If necessary install a new print cartridge, PL 90.17 Item 9.
- If the deletions are small and align with the stripper fingers in the print cartridge, clean the stripper fingers. If necessary install a new print cartridge, PL 90.17 Item 9. Refer to Table 1 to locate the position of stripper finger marks on various paper sizes.

Table 1 Location of stripper finger marks

| Paper size and orientation | Paper edge measured from | Outboard stripper finger marks | Centre stripper finger marks | Inboard stripper finger marks |
|----------------------------|-----------------------------|--------------------------------------|------------------------------|-------------------------------|
| A4 LEF | Outboard | 57.5 | 161.5 | 245.5 |
| A4 SEF | | 14.0 | 118.0 | 202.0 |
| LTR LEF | | 48.5 | 152.5 | 236.5 |
| LTR SEF | | 17.0 | 121.0 | 205.0 |
| A3 | | 57.5 | 161.5 | 245.5 |
| 11x17 | | 48.5 | 152.5 | 236.5 |
| A4 LEF | Inboard | 239.5 | 135.5 | 51.5 |
| A4 SEF | | 196.0 | 92.0 | 8.0 |
| LTR LEF | | 230.5 | 126.5 | 42.5 |
| LTR SEF | | 199.0 | 95.0 | 11.0 |
| A3 | | 239.5 | 135.5 | 51.5 |
| 11x17 | | 230.5 | 126.5 | 42.5 |

NOTE: All the above measurements are in millimeters (+/- 4 mm) and are taken from either the inboard or outboard edge of the paper.

- If the deletions are small and align with the stripper fingers in the fuser module, clean the stripper fingers. If necessary install a new fuser module, PL 10.8 Item 1.
- If the deletions resemble those shown in Figure 11, go to IQS 6 Copy / Print Defects and perform the Paper Wrinkle corrective actions.
- Perform the IQ3 Xerographic RAP.

Developer Beads on the Print or Copy

Description

Developer beads in the light or non-image areas of the print.

Procedure

Clean the components that follow:

- The print cartridge, PL 90.17 Item 9.
- The registration transport housing and registration roll, PL 80.17.
- The registration transfer assembly. PL 80.15 Item 1.
- The duplex transport assembly, PL 80.22 Item 1.

If developer bead contamination continues, install a new print cartridge, PL 90.17 Item 9.

Displaced, Fragmented or Scrambled Image

Description

Distorted, broken, mixed-up, incomplete or missing images. Images that are on the page but in the wrong place.

Procedure

Check the items that follow:

- If the scrambled image resembles Figure 3, check for grounding problems at the LED print head.
- Check for high voltage arcing. Refer to the 391A HVPS RAP.
- Check the connections on the LED print head module to SBC PWB ribbon cable, PJ851 on the SBC PWB, PL 3.22 Item 3 and PJ511 on the LED print head assembly, PL 60.35 Item 15. Refer to WD 2.
- Go to OF10 Intermittent Failure RAP and perform the Electrostatic Discharge Checkout.
- Go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.

Light Copies or Prints

Description

The image is visible on the print, but with insufficient solid area density, or light grey tones are reproduced too light.

Procedure

Perform the procedures that follow:

- If the IQ defect resembles Figure 8, suspect the developer bias AC supply. Perform the 391A HVPS RAP.
- If the IQ defect resembles Figure 9, suspect the developer bias DC supply. Perform the 391A HVPS RAP.
- IQ11 Print Quality Improvement RAP.

Misregistration

Description

The image on the paper is displaced relative to the lead or top edge.

Procedure

Refer to IQS 7 Registration. Perform the procedures that follow:

- 1. dC604 Registration Setup.
- 2. ADJ 80.2 Simplex and Duplex Buckle Timing.

Mottled Copies or Prints

Description

The image is visible on the print, but with inconsistent solid area density. Black areas are grey and/or spotted.

Procedure

Perform the procedures that follow:

- If the IQ defect resembles Figure 8, suspect the bias transfer roll supply, perform the 391A HVPS RAP.
- IQ11 Print Quality Improvement RAP.

Narrow Bands in the Cross Process Direction

Description

Bands across the process direction visible in halftone areas. See also Bands in the Cross Process Direction.

Procedure

Perform the procedures that follow:

- IQ6 Narrow Bands RAP.
- Go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.

If the band resembles part of Figure 13, the bands may have been caused by an intermittent loss of bias charge roll voltage. Perform the 391A HVPS RAP.

If the bands resemble Figure 14, the bands may have been caused by a poor contact on the drive shaft to the photoreceptor. Go to the 301A Ground Distribution RAP and perform the Print Cartridge Ground procedure.

Part images and missing images

Description

Incomplete or missing images.

Procedure

Perform the steps that follow:

- Figure 1, check that the bias transfer roll, PL 80.15 Item 3, is correctly seated, latched and in good condition.
- Figure 1, check that the registration transfer housing, PL 80.15 Item 2, is correctly seated and latched.
- Check that the left door assembly, PL 80.10 Item 1, latches correctly to the IOT frame.
- Remove the print cartridge. Check that it seats correctly on the machine frame and that there is no debris that could compromise the correct seating. Re-install the print cartridge.
- Go to IQ3 and perform the LED Print Head Checkout.
- If the fault persists, perform the IQ3 Xerographic RAP.

Print Damage

Description

Creases, curl, cuts, folds, wrinkles, or embossed marks are visible on the print.

Procedure

Perform the IQ5 Print Damage RAP.

Repeated Image Defects

Description

Offsetting. A toner image that adheres to the fuser roll or pressure roll and transfers to another area of the print. The repeat interval for a fuser roll defect or a pressure roll defect is 94.3mm (3.71 inches). Refer to Figure 6.

Procedure

Check the fuser module. Perform the IQ4 Fuser Module RAP.

Description

Residual Image. A previous image that was not removed from the photoreceptor during the cleaning cycle. The repeat interval for a photoreceptor defect is 125.6mm (5 inches).

Procedure

If the repeated residual image on A3 (11X17 inches) paper is 125.6mm (5 inches), perform the IQ3 Xerographic RAP.

Description

Other. Repeated image defects that are not obviously offsetting or residual.

Procedure

Perform the steps that follow:

- If the distance between repeated defects in the process direction is 125.6mm (5 inches), install a new print cartridge. PL 90.17 Item 9.
- If the distance between repeated defects in the process direction is 94.3mm (3.71 inches), perform the IQ4 Fuser Module RAP.
- If the distance between repeated defects in the cross process direction is 84mm (3.3 inches) and 105mm (4.13 inches) that align with the print cartridge stripper fingers, go to the IQ3 Xerographic RAP. Perform the Print Cartridge Checkout.
- If the distance between repeated defects in the cross process direction is 44mm, 70mm, 60mm and 78mm (1.73, 2.75, 2.36 and 3.07 inches) that align with the fuser module stripper fingers, perform the IQ4 Fuser Module RAP.
- If the distance between repeated defects in the process direction is 56.5mm (2.22 inches), perform the steps that follow:
 - Figure 1, check the bias transfer roll surface for damage or contamination. If necessary install a new bias transfer roll, PL 80.15 Item 3.
 - 2. If the bias transfer roll is good, install a new print cartridge, PL 90.17 Item 9.
- If there are other defects that are repeated in sequential images, install a new print cartridge, PL 90.17 Item 9.

Skew

Description

A difference in angular alignment between the image on the print and the original document.

Procedure

Refer to IQS 5 Skew and the IQ8 IQT Skew RAP.

Skips

Description

Loss or stretching of the image, and compression of the image, in bands across the process direction.

Procedure

Skips are associated with a variation in the relative write speed of the LED print head image and the rotation speed of the photoreceptor. Check the components that follow for wear:

- Main drive module, PL 40.15 Item 1.
- Flywheel clamp, PL 40.15 Item 3.
- Photoreceptor dog gear, PL 40.15 Item 10 and spring, PL 40.15 Item 9.

Smears

Description

Loss or stretching of the image, and compression of the image, in bands across the process direction.

Procedure

Smears are associated with a variation in the rotation speed of the photoreceptor or speed of the paper. Check the components that follow:

- Main drive module, PL 40.15 Item 1.
- The fuser drive gear on the main drive module, PL 40.15 Item 1.
- Registration drive pulley, PL 80.17 Item 3.

Smudges

Description

Dark marks extending from image areas of the page.

Procedure

Smudges are caused by the unfused image being disturbed. Check the items that follow:

- The paper path between the print cartridge and the fuser for any stray pieces of paper.
- The fuser entrance guide for contamination. Refer to Figure 5.
- If the IQ defect resembles Figure 12, install a new print cartridge, PL 90.17 Item 9.

Streaks in the Process Direction

Description

Lines on the print, in the process direction of the non-image area.

Procedure

The result of disturbance either before or after image transfer. Perform the steps that follow:

- Check the fuser entry area and remove any debris.
- Install a new print cartridge, PL 90.17 Item 9.

Toner Contamination on the Back of Prints

Description

Random black spots or marks on the back of simplex prints, or on both sides of duplex prints.

Procedure

Refer to Figure 1. Perform the steps that follow:

- 1. Clean the registration nip roll, PL 80.15 Item 4.
- 2. Clean the registration transfer housing and mylar, PL 80.15 Item 2.
- Perform dC604 Registration Setup Procedure.
- 4. If the contamination persists, perform the steps that follow as necessary:
 - Check that the dC131 NVM values that follow are set to their default values:
 - 501-164 BTReverseBiasCycleIn.
 - 501-168 BTReverseBiasRun.
 - Run 50 blank sheets through the machine.
 - Install a new bias transfer roll. PL 80.15 Item 3.
- If the fault persists, install a new print cartridge, PL 90.17 Item 9, then run 50 blank sheets through the machine.

Uneven Density or Non Uniform Image

Description

Variation in image density across the print.

Procedure

Perform the steps that follow:

- Figure 1, check that the bias transfer roll, PL 80.15 Item 3, is correctly seated and latched.
- Figure 1, check that the registration transfer housing, PL 80.15 Item 2, is correctly seated and latched.
- Check that the left door assembly, PL 80.10 Item 1, latches correctly to the IOT frame.
- Remove the print cartridge. Check that it seats correctly on the machine frame and that there is no debris that could compromise the correct seating. Re-install the print cartridge.
- Go to IQ3 and perform the LED Print Head Checkout.
- If the fault persists, perform the IQ3 Xerographic RAP.

Unfused Prints

Description

The toner image on the finished print is not fused to the print medium.

Procedure

Refer to IQS 3 Fusing and IQ4 Fuser Module RAP.

White Lines in the Process Direction

Description

White lines in the dark or image areas of the print in the process direction.

Procedure

Perform the steps that follow:

- White lines or deletions that are continuous from edge to edge of the image. Check the items that follow:
 - Contamination of, or damage to, the stripper fingers, the bias charge roll or trim bar (parts of the print cartridge). Install a new print cartridge, PL 90.17 Item 9. Refer to Table 2 to locate the position of stripper finger marks on various paper sizes.

Table 2 Location of stripper finger marks

| Paper size and orientation | Paper edge measured from | Outboard stripper finger marks | Centre stripper finger marks | Inboard stripper finger marks |
|----------------------------|-----------------------------|--------------------------------------|------------------------------|-------------------------------|
| A4 LEF | Outboard | 57.5 | 161.5 | 245.5 |
| A4 SEF | | 14.0 | 118.0 | 202.0 |
| LTR LEF | | 48.5 | 152.5 | 236.5 |
| LTR SEF | | 17.0 | 121.0 | 205.0 |
| A3 | | 57.5 | 161.5 | 245.5 |
| 11x17 | 1 | 48.5 | 152.5 | 236.5 |

Table 2 Location of stripper finger marks

| Paper size and orientation | Paper edge measured from | Outboard stripper finger marks | Centre stripper finger marks | Inboard stripper finger marks |
|----------------------------|-----------------------------|--------------------------------------|------------------------------|-------------------------------|
| A4 LEF | Inboard | 239.5 | 135.5 | 51.5 |
| A4 SEF | | 196.0 | 92.0 | 8.0 |
| LTR LEF | | 230.5 | 126.5 | 42.5 |
| LTR SEF | | 199.0 | 95.0 | 11.0 |
| A3 | | 239.5 | 135.5 | 51.5 |
| 11x17 | | 230.5 | 126.5 | 42.5 |

NOTE: All the above measurements are in millimeters (+/- 4 mm) and are taken from either the inboard or outboard edge of the paper.

- Contamination of the fuser roll. Perform the IQ4 Fuser Module RAP.
- Damage to the fuser roll. Install a new fuser module PL 10.8 Item 1.
- Spots or marks on the LED print head. Go to the IQ3 Xerographic RAP and perform the LED Print Head Checkout.
- If the fault persists, perform the IQ3 Xerographic RAP.

White Spots

Description

White spots are areas visible on a half tone or solid area where the toner has failed to be deposited.

Procedure

Perform the Deletions procedure.

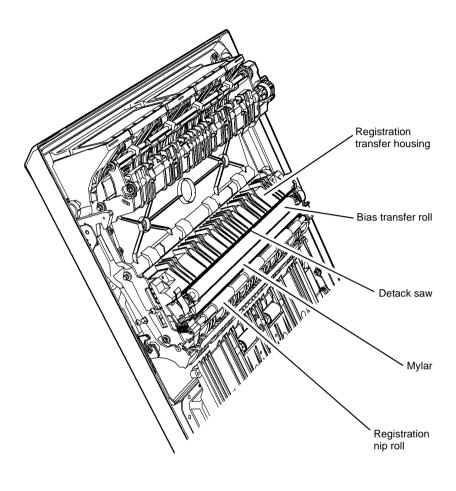


Figure 1 Component location

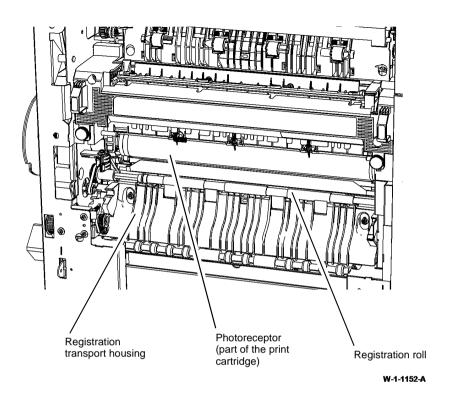


Figure 2 Component location

W-1-1151-A

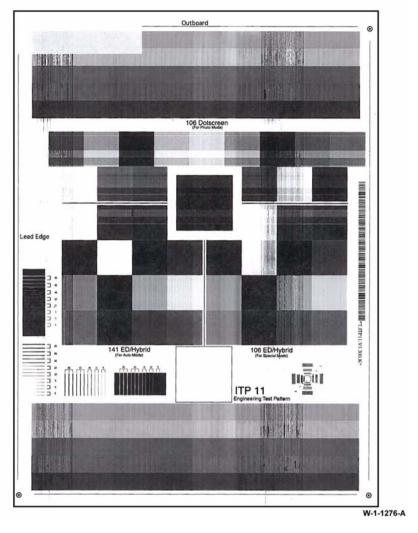


Figure 3 IQ defect sample

The defect shown in Figure 3 is a result of electrostatic discharge (ESD) affecting the LED print head, caused by a loss of grounding.

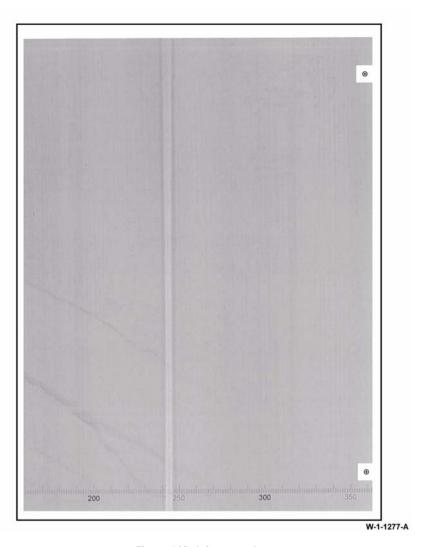


Figure 4 IQ defect sample

The defect shown in Figure 4 is the result of a light shocked photoreceptor caused by the LED print head being energized while the photoreceptor is stationary.

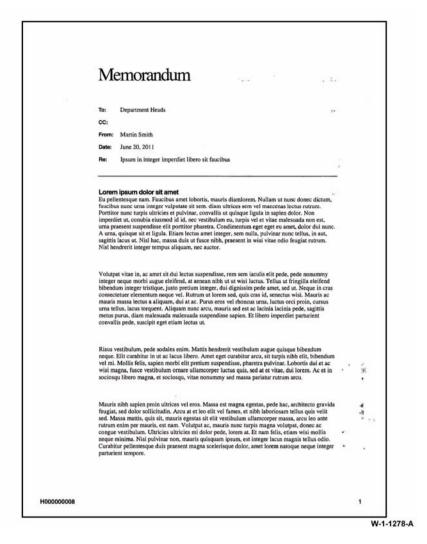


Figure 5 IQ defect sample

The defect shown in Figure 5 is the result of contamination on the fuser guide. This can be seen as image disturbance and contamination deposits towards the trail edge from the image areas of the page.

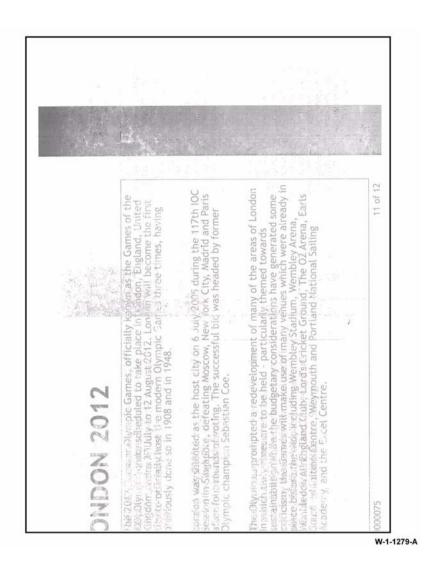


Figure 6 IQ defect sample

The defect shown in Figure 6 is a toner image that adheres to the fuser roll or pressure roll and transfers to another area of the print. The repeat interval for a fuser roll defect or a pressure roll defect is 94.3mm (3.71 inches).

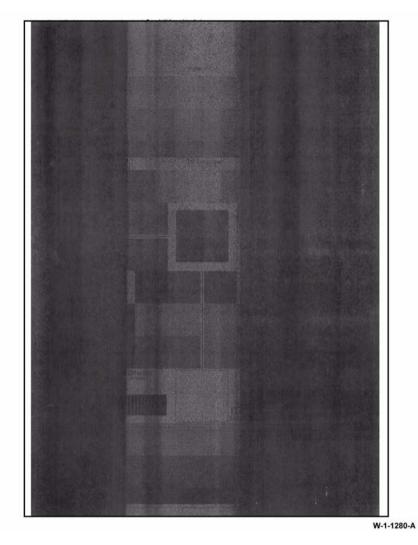


Figure 7 IQ defect sample

The defect shown in Figure 7 is a result of an intermittent loss of bias charge roll voltage.

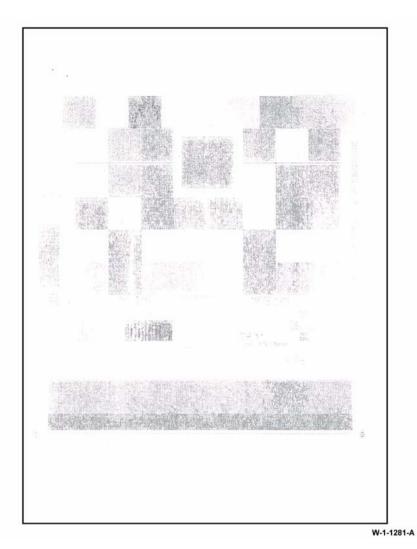


Figure 8 IQ defect sample

The defect shown in Figure 8 could be caused by one of the causes that follow:

- Loss of the developer bias AC voltage.
- Loss of the BTR voltage due to a damaged BTR track, PL 90.10 Item 7.
- A failed HVPS.

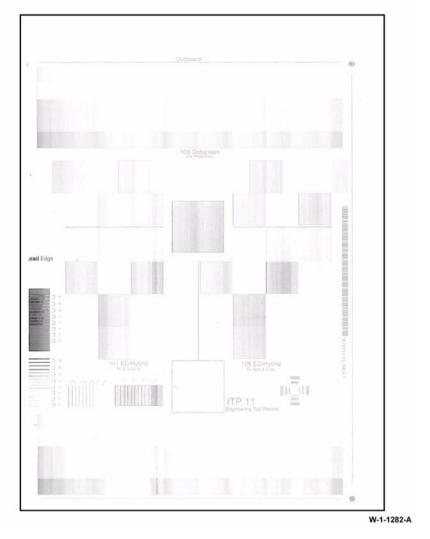


Figure 9 IQ defect sample

The defect shown in Figure 9 is a result of the loss of the developer bias DC voltage.

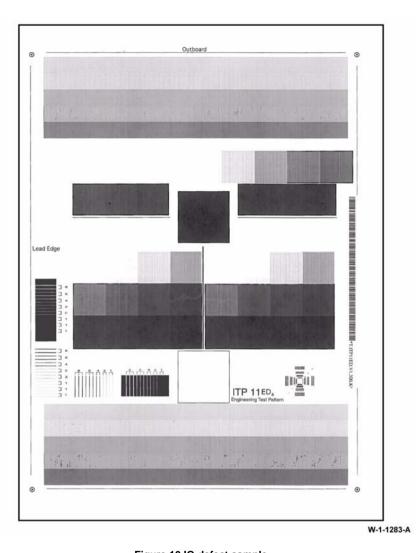


Figure 10 IQ defect sample

The defect shown in Figure 10 is the result of the distance between the LED print head and the photoreceptor being wrong, giving poor focus.

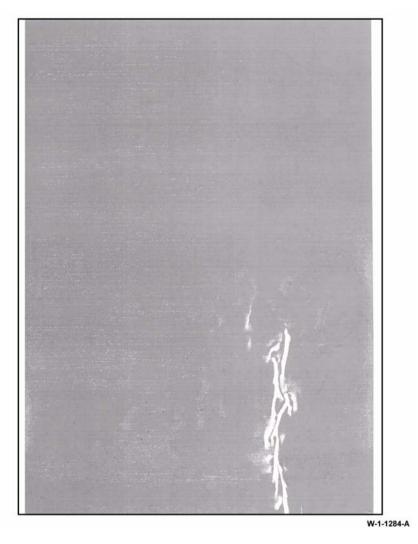


Figure 11 IQ defect sample

The defect shown in Figure 11 is the result of wrinkled paper before transfer, resulting in image loss.

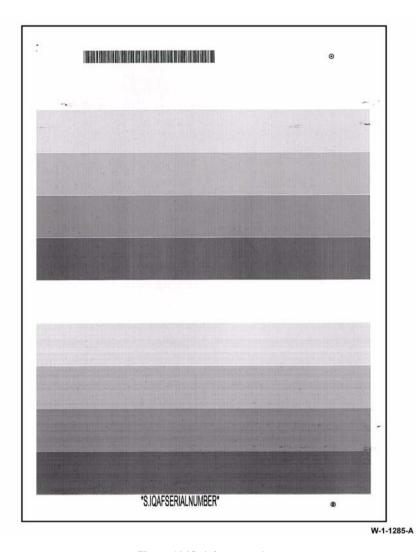


Figure 12 IQ defect sample

The defect shown in Figure 12 is the result of contamination from the print cartridge. This can be seen as random contamination deposits over the entire area of the page.

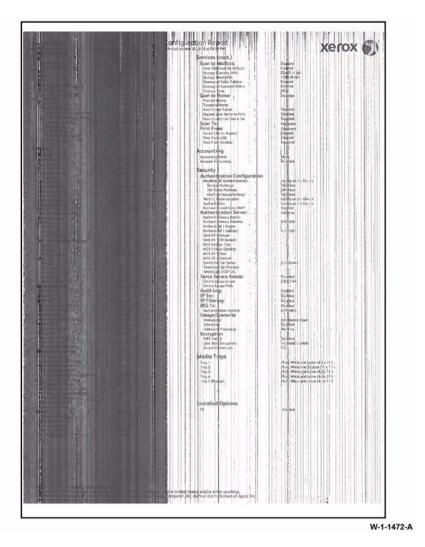


Figure 13 IQ defect sample

The defect shown in Figure 13 is a result of an intermittent loss of bias charge roll voltage.

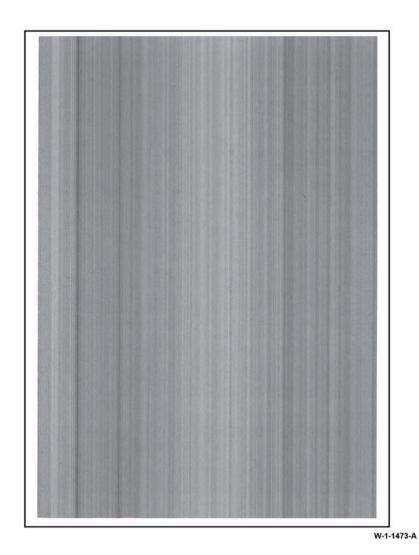


Figure 14 IQ defect sample

The defect shown in Figure 14 is a result of a poor contact on the drive shaft to the photoreceptor.

IQ3 Xerographic RAP

Use this RAP to determine the cause of the image quality problem.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the checks that follow. If necessary, install new components:

- Figure 1, check that the left door fan 1 and fan 2 are working. If the fans are working, air
 will be blown out of the air vents of the left door. If necessary, refer to the OF6 Air Systems
 RAP.
- Figure 1, check that the print cartridge cooling fan runs. This fan draws air from the cavity below the horizontal transport or centre output tray, then directs the air flow via a duct onto the print cartridge. To check the operation of the fan, enter dC330, code 93-001 print cartridge fan. If necessary, refer to the OF6 Air Systems RAP.
- Figure 2, check that the humidity sensor is working. Perform the 391-365-00 Humidity Sensor Failure RAP.
- Perform ADJ 90.1 Xerographic Cleaning.
- Check the developer bias track, PL 90.10 Item 4. Refer to the 391A HVPS RAP.
- Check that the high voltage connections to the HVPS are secure, PL 90.10. If necessary, refer to the 391A HVPS RAP.
- Check for loose ground connections. Perform the 301A Ground Distribution RAP.

Make prints. If the image quality defect is still present, perform the procedure.

Procedure

The components that follow can cause image quality defects. Perform the checks:

- Paper Path Checkout.
- Print Cartridge Checkout.
- · Fuser Module Checkout.
- · LED Print Head Checkout.

Paper Path Checkout

- Figure 2, check the registration transport housing, PL 80.17 Item 1 for wear, damage and contamination. If necessary, clean the housing or install a new part.
- Figure 1, check the registration transfer housing, PL 80.15 Item 2 for wear, damage and contamination. If necessary, clean the housing or install a new part.
- Figure 1, check the bias transfer roll surface for damage or contamination, if necessary, install a new bias transfer roll. PL 80.15 Item 3.

Print Cartridge Checkout

Three marks/dots/spots on the edge or the body of the prints/copies, that align with the
three print cartridge stripper fingers, Figure 2, together with some or all of the symptoms
that follow, indicates that there is no voltage or a low voltage supplied to the detack saw
due to the detack transformer in the HVPS failing. Refer to Table 1 to locate the position of
stripper finger marks on various paper sizes.

Table 1 Location of stripper finger marks

| Paper size and orientation | Paper edge measured from | Outboard stripper finger marks | Centre stripper finger marks | Inboard stripper finger marks |
|----------------------------|-----------------------------|--------------------------------------|------------------------------|-------------------------------|
| A4 LEF | Outboard | 57.5 | 161.5 | 245.5 |
| A4 SEF | | 14.0 | 118.0 | 202.0 |
| LTR LEF | | 48.5 | 152.5 | 236.5 |
| LTR SEF | | 17.0 | 121.0 | 205.0 |
| A3 | | 57.5 | 161.5 | 245.5 |
| 11x17 | | 48.5 | 152.5 | 236.5 |
| A4 LEF | Inboard | 239.5 | 135.5 | 51.5 |
| A4 SEF | | 196.0 | 92.0 | 8.0 |
| LTR LEF | | 230.5 | 126.5 | 42.5 |
| LTR SEF | | 199.0 | 95.0 | 11.0 |
| A3 | | 239.5 | 135.5 | 51.5 |
| 11x17 | | 230.5 | 126.5 | 42.5 |

NOTE: All the above measurements are in millimeters (+/- 4 mm) and are taken from either the inboard or outboard edge of the paper.

Additional symptoms:

- Toner contamination of the print cartridge stripper fingers.
- Broken or missing print cartridge stripper fingers caused by frequent jam clearances.
- Paper wrinkles.
- Inverter jams.
- Dog eared copies/prints.

Perform the steps that follow:

- Ensure the track (DTAK), PL 90.10 Item 6 makes good contact with the HVPS.
- 2. Ensure the track (DTAK), PL 90.10 Item 6 touches the detack saw contact when the left door is closed, by connecting one meter lead to the back of the detack saw contact wire and the other meter lead to the track (DTAK). Route the meter leads through the rear frame below the registration motor PL 40.15 Item 6. Set the meter on continuity with the buzzer on. Very carefully close the left door. Re-adjust the lay of the meter leads as necessary so that the door can fully close. If the buzzer sounds, the contact is good.
- 3. Ensure the track (DTAK), PL 90.10 Item 6 has continuity from end to end.
- If checks 1 and 3 are good, install a new HVPS, PL 1.10 Item 3.

- Check the surface of the photoreceptor in the print cartridge for toner contamination. If the
 photoreceptor is not clean, cheat the left door interlock switch. Enter dC330 code 093045, print cartridge motor. Allow the motor to run for a few seconds. If the photoreceptor
 surface is still not clean, install a new print cartridge, PL 90.17 Item 9.
- Check that the surface of the photoreceptor is not chipped, scored or scratched. If the photoreceptor is damaged, install a new print cartridge, PL 90.17 Item 9.
- Figure 2, check the print cartridge stripper fingers for wear, damage and contamination. If necessary install a new print cartridge, PL 90.17 Item 9.

Fuser Module Checkout

Check the fuser rolls and stripper fingers for toner and developer contamination. If contamination is present, perform the IQ4 Fuser Module RAP.

LED Print Head Checkout

- If toner contamination is evident on the LED print head, perform ADJ 60.4 LED Print Head Cleaning Procedure.
- If there are 1 or more image defects in the form of process direction bands that are 8mm (0.3 inch) wide, or multiples thereof, install a new LED print head module, PL 60.35 Item
 1.
- Perform the following
 - 1. Go to dC612 Print Test Pattern, make a print of internal test pattern 22.
 - Refer to IQS 1 Solid Area Density and Tone Reproduction, check that the 100% patch of the internal test pattern 22 print meets the IQS 1 specification. If necessary, perform the Print Cartridge Checkout.
 - 3. Check both "Fine Lines In Focus" areas of the internal test pattern 22 print. The fine print and the fine lines should both be visible. If either or both are soft and fluffy or missing, it suggests that the LED print head is out of focus. Check the LED print head camming mechanism is working correctly. Check that there is no debris that would prevent the LED print head from moving to the imaging position close to the photoreceptor. Check that the harness and the ground wire to the LED print head are correctly routed and are not restricting the movement of the head.
 - 4. Check the 5% patch of the internal test pattern 22 print. The patch should be clearly visible across the whole width. If either end is lighter than the other, the light end is out of focus, BUT only if checks 2 and 3 are good. Check the LPH pins are fully seated. Check when the LPH is cammed on and off there is no binding and that the head goes home on the pins.
- Perform dC304 LED Print Head Validation.
- Check the wiring and connectors between the LED print head and SBC PWB. Refer to the 361-100-00 LED Print Head Data Integrity Failure RAP.

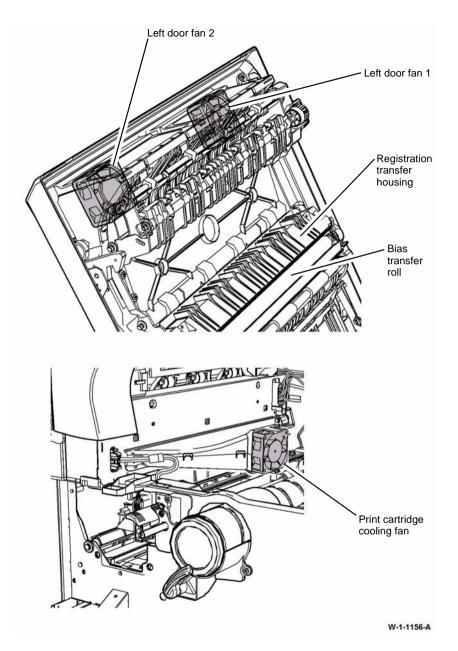


Figure 1 Component location

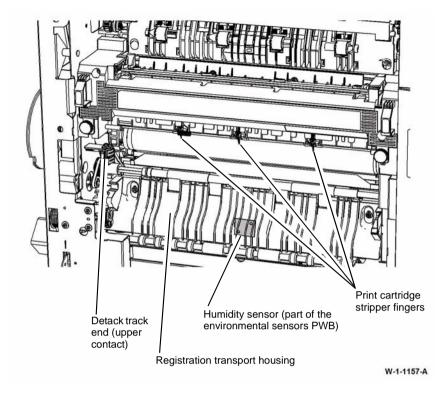


Figure 2 Component location

IQ4 Fuser Module RAP

Use this RAP for fuser module related problems.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Enter dC131. Check the NVM values for 502-292, NVMFsrStandby Temp and 502-293, NvmFsrRun Temp. If the NVM values are increased, fusing performance is improved, but contamination or curl can occur. If the NVM values are decreased, fusing performance is reduced.
- Poor fusing can be caused by alternative quality paper and heavily embossed envelopes.
 Refer to GP 20 Paper and Media Specifications. If the customer is using alternative quality paper, select the card stock setting on the UI. Adjusting 741-052 only changes the fuser temperature when card stock is selected. Some 200gsm papers do not fuse correctly.
 - Check that the customer is using tray 1 and tray 2 for alternative quality paper or heavyweight paper up to 200gsm. For heavyweight paper between 200gsm and 216gsm the bypass tray must be used.
 - Refer to IQS 3 Fusing.
- Check the components that follow for wear and contamination:
 - Fuser stripper fingers. If possible remove any contamination. If the stripper fingers are damaged or worn, install a new fuser module, PL 10.8 Item 1.
 - Check that the fuser rolls are clean:
 - If the fuser rolls are not clean, go to dC612 Print Test Patterns. Select test pattern 1. Select simplex. Select quantity 20. Select Start Test. This action should clean the fuser rolls of residual toner.
 - If the fuser rolls are still not clean, use a lint free cloth dampened with formula A cleaning fluid, PL 26.10 Item 2, to remove the contamination.
 - If the fuser rolls' cleanliness is still not satisfactory, install a new fuser module, PL 10.8 Item 1.
 - Check the condition of the fuser rolls. If the fuser rolls are damaged or worn, install a new fuser module, PL 10.8 Item 1.

NOTE: Do not install a new fuser module due to the appearance of wrinkles on the pressure roll. This is normal for the pressure roll, caused by the conductive sleeve that stretches as the silicon rubber base of the roll expands.

IQ5 Print Damage RAP

Use this RAP when the prints have nicks, tears, creases, folds, curled edges or wrinkles.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Enter dC612. Select the relevant internal test pattern:

- Number 13 (ITP 19 Field test pattern (A3)).
- Number 14 (ITP 19 Field test pattern (11x17)).

Make prints to identify where the prints are damaged.

Check for curled paper in the paper trays:

Ensure the paper is in specification. Refer to GP 20.

Check the paper path, Figure 2, for the problems that follow:

- Obstructions.
- Damaged guides and rolls, GP 7. Pay particular attention to the areas that align with the damage on the prints. For example, fuser stripper fingers.
- Protruding objects on the edges of the paper path.
- If the machine has a centre output tray, ensure that the diverter output guide, PL 10.10 Item 3 is fitted correctly.
- If the paper feed is introducing skew to the paper, perform the IQ8 IOT Skew RAP.
- If the paper does not correctly strip from the print cartridge, ensure that all the tracks on the HVPS tray assembly make good contact on the HVPS and the xerographic components. Refer to PL 90.10.
- Check that the fuser roll stripper fingers are clean. If possible remove any contamination. If the stripper fingers are missing, damaged or worn, install a new fuser, PL 10.8 Item 1.
- Check that the print cartridge stripper fingers and star wheels are clean. If possible remove any contamination. If the stripper fingers and star wheels are missing, damaged or worn, install a new print cartridge, PL 90.17 Item 9.
- If the prints are creased, wrinkled or corrugated after passing through the fuser module, install a new fuser module, PL 10.8 Item 1.
- If the paper is curled after passing through the fuser module, go to Curl Measurement.
- Check the inverter assembly for damage or wear, GP 7.
- Check the duplex and registration transport assemblies for damage or wear.
 - If the paper displays wrinkles due to excessive buckle in the duplex or registration transport, perform ADJ 80.2 Simplex and Duplex Buckle Timing.
- If the output device suffers from poor stacking, perform the steps that follow as necessary:
 - Check that the output device is not positioned near an air conditioning or ventilation output duct. Air flow across the output bins can cause poor stacking.
 - 312K-110 2K LCSS Poor Stacking RAP.

- 312A-150 LVF BM Poor Stacking RAP.
- Remove the output device, then connect a finisher bypass connector, PL 26.10 Item 7.
 - Check the paper path through the inverter assembly, PL 10.10 Item 1.
 - Check the paper path through the horizontal transport, PL 10.15 Item 1.

If the paper path and the duplex path are good, check that the paper and other media used, is of the correct weight and size, GP 20.

Curl Measurement

Make 5 simplex prints. Refer to Figure 1. If the curl on the prints exceeds 13mm (0.5 inch), perform the steps that follow:

- Check the paper storage and wrapping.
- Turn over the paper stack in the paper tray.
- Use paper from a new ream.
- If the fault persists, perform the IQ4 Fuser Module RAP.

Place the print on a flat surface. Measure the curl within 5 seconds.

Maximum allowable curl for any paper size in any direction: 13mm (0.5inch)

Figure 1 Curl height measurement

W-1-1021-A

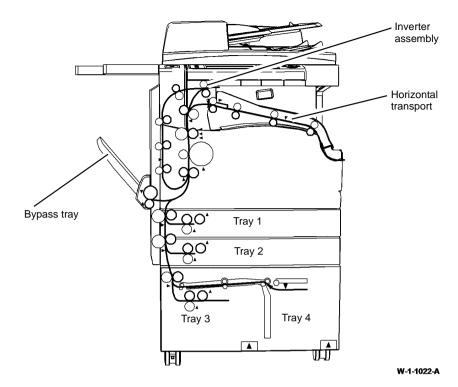


Figure 2 Paper path

IQ6 Narrow Bands RAP

Use this RAP to determine the cause of narrow bands.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a duplex scan of test pattern 82E2010 to USB file. View the resultant file on a computer screen. There are dark edges, coloured edges or bands on the scanned image.

- 1

Bands that are irregular in the cross process direction can be caused by:

- High voltage arcing. Perform the 391A HVPS RAP.
- Worn gears or components in the areas that follow. Examine the gears, the shafts and the bearings, GP 7, install new components as necessary:
 - Main drive module, PL 40.15 Item 1.
 - Flywheel clamp, PL 40.15 Item 3.
 - Developer dog gear, PL 40.15 Item 8 and spring, PL 40.15 Item 7.
 - Photoreceptor dog gear, PL 40.15 Item 10 and spring, PL 40.15 Item 9.
 - Registration drive pulley, PL 80.17 Item 3.

Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

IQ7 Document Glass and Scanner IQ Defects RAP

Use this RAP to identify image quality problems caused by the document glass and the scanner.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Procedure

Go to the appropriate image quality defect and perform the appropriate action.

- Background.
- · Bands.
- Black Image.
- Blurred image.
- Deletions.
- · Displaced and Fragmented Image.
- Lines.
- Magnification.
- Marks and spots.
- Misregistration.
- Part Images and Missing Images.
- Part Image / Part Black Image.
- Rotated image.
- Scanner Module Skew.
- Side 1 SPDH Skew.

Background

Description

Uniform darkening across all the non image areas on the scanned file.

Procedure

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a simplex scan to USB file from the document glass. View the resultant file on a computer screen. If the images have a background problem, perform the steps that follow:

- Check the SPDH height. Refer to ADJ 5.2 SPDH Height.
- ADJ 60.3 IIT Registration, Magnification and Calibration.
- Copying thick documents can leave the SPDH raised above the document glass.

Raise and lower the SPDH 5 times to settle the counterbalances.

Bands

Description

Light or dark bands on the scanned file in the process direction. These are best detected on a scan of a grey image such as ITP 2.

Procedure

Perform the Scan Carriage Assembly Checkout.

Black Image

Description

Side 1 images are completely black.

Procedure

Perform the 362-450-00 to 362-472-00, 362-781-00 Scanner Calibration Faults RAP.

Blurred image

Description

A part or the whole of the image has the appearance of being out of focus.

Procedure

Refer to IQS 4 Resolution. Perform the steps that follow:

- Check that the document is flat on the document glass.
- Copying thick documents can leave the SPDH raised above the document glass. Raise and lower the SPDH 5 times to settle the counterbalances.

Deletions

Description

Areas of the image missing from the scanned file. Deletions may be in the form of lines or whole areas of toner missing from the print.

Procedure

Perform the Scan Carriage Assembly Checkout and the Document Glass Checkout. If necessary install a new scan carriage assembly, PL 60.25 Item 1.

Displaced and Fragmented Image

Description

Displaced images, part images or scrambled images.

Procedure

Perform the Scan Carriage Assembly Checkout. If necessary install a new scan carriage assembly, PL 60.25 Item 1.

Lines

Description

Light or dark lines in the process direction. These are best detected on a scan of a grey image such as ITP 2.

Procedure

Perform the Scan Carriage Assembly Checkout and the Document Glass Checkout. If necessary install a new scan carriage assembly. PL 60.25 Item 1.

Magnification

Description

At 100% magnification the scanned image differs from the size of the image on the original document. Refer to IQS 8 Magnification.

Procedure

Compare side 2 images produced from the SPDH with side 1 images produced from the document glass or CVT glass. If this comparison shows the scan carriage magnification to be outside of the IQS 8 specification, install a new scan carriage assembly, PL 60.25 Item 1.

Marks and spots

Description

Dark marks or spots in the non-image areas of the print.

Procedure

Refer to the IQS 6 Copy / Print Defects. Perform the steps that follow:

- Check the original documents for marks and spots.
- Check the document glass for marks and spots, if necessary clean the document glass.
 Refer to ADJ 60.1.
- Perform the IQ3 Xerographic RAP.

Misregistration

Description

The image in the scanned file is displaced relative to the lead or top edge. Refer to IQS 7 Registration.

Procedure

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a simplex scan of test pattern 82E2010/82E2020 to USB file. View the resultant file on a computer screen. If the scanned file shows misregistration, perform the Scan Carriage Assembly Checkout and the ADJ 60.3 IIT Registration, Magnification and Calibration.

Part Images and Missing Images

Description

Incomplete or missing images.

Procedure

Perform the 362A Side 1 Scanning Document Size RAP.

Part Image / Part Black Image

Description

Refer to Figure 1. A strip of the image next to the leading edge is good but the remainder of the page is black, with a sharp joint between the 2 parts that runs from inboard to outboard. If the output is duplex, side 2 of the copy/scan will have a larger proportion of black or may be completely black. The fault history may contain 362-960 codes.

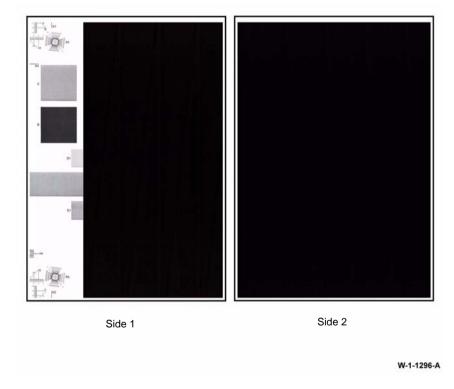


Figure 1 IQ sample

Procedure

Perform the 362-357-00, 362-960-00 Scanner Cooling Fan Fault RAP.

Rotated image

Description

The image on the scanned file is rotated 90 degrees to the image on the original document.

Procedure

Perform the 362A Scanning Document Size RAP.

Scanner Module Skew

Description

A difference in angular alignment between the scanned image and the original document.

Procedure

Refer to IQS 5 Skew. Check the scanned file produced in IQ1 for skew.

If the scanned file has skew, there is a skew problem originating in the scanner. Perform the steps that follow:

- Check the scan carriage is not damaged and moves freely.
- Check the scan drive belt is in a good condition and is routed correctly, refer to REP 60.11.

If necessary, install a new scanner module, PL 60.15 Item 1.

Side 1 SPDH Skew

Description

A difference in angular alignment between the scanned image and the original document when the SPDH is used to transport the originals across the CVT glass.

Procedure

Refer to IQS 5 Skew. Check the scanned file produced in IQ1 for skew.

If the scanned file has skew, perform the steps that follow:

- Check that the SPDH is seated correctly. If necessary, perform the ADJ 5.2 SPDH Height.
- Go to ADJ 5.3 and perform the Side 1 Skew Adjustment.

Document Glass Checkout

Perform the steps that follow:

- Clean the top surface of the document glass and CVT glass. Refer to ADJ 60.1 Scanner Cleaning Procedure.
- Check that the white AGC strip on the CVT glass is on the rear underside of the glass.
- Check the condition of the SPDH document pad. If necessary clean the pad or install a new pad, PL 5.10 Item 3.

Scan Carriage Assembly Checkout

Perform the steps that follow:

- If the copy of the internal test pattern (made from the IQ1 Image Quality Entry RAP) is fragmented and displaced, check the components that follow:
 - The scan carriage data ribbon cable, PL 60.20 Item 17 from the scanner CCD PWB, PJ445 to the Scanner PWB, PJ412. Refer to WD 16.

- The scan carriage power ribbon cable, PL 60.20 Item 10 from the scanner CCD PWB, PJ446 to the Scanner PWB, PJ416. Refer to WD 16.
- The SBC PWB to scanner PWB data cable, PL 60.20 Item 22 from the scanner PWB, PJ411 to the SBC PWB, PJ862. Refer to WD 16. Ensure the data cable is located and secured in the correct location, refer to REP 60.2.
- The SBC PWB to scanner PWB comms/power harness, PL 60.20 Item 5 from the scanner PWB, PJ410 to the SBC PWB, PJ860 and PJ861. Refer to WD 16.
- Raise the SPDH. Enter dC330 code 062-002, platen exposure lamp. If the scan carriage
 exposure lamp does not illuminate, perform the 362B Side 1 Exposure Lamp Failure RAP.
- Check the scan carriage for contamination. Refer to ADJ 60.1 Scanner Cleaning Procedure.
- Check all of the scanner module ground connections listed in the 301A Ground Distribution RAP. If necessary clean any contamination to ensure a good ground contact.

IQ8 IOT Skew RAP

Use this RAP to determine the source of skew.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the misregistration procedure in the IQ2 IQ Defects RAP.

Procedure

Enter dC612. Select the relevant internal test pattern:

- Number 11 (ITP 19 Field test pattern (letter)).
- Number 12 (ITP 19 Field test pattern (A4)).
- Number 13 (ITP 19 Field test pattern (A3)).
- Number 14 (ITP 19 Field test pattern (11x17)).

Make 5 simplex prints. Check the prints for skew. Refer to IQS 5 Skew. **The prints are skewed.**

Y

Make 5 duplex prints of the same internal test pattern. Check the prints for skew, refer to IQS 5 Skew. **Side 2 of the prints are skewed.**

' N

No IOT skew is present. Re-define the image quality defect. Refer to IQ1 Image Quality Entry RAP.

The skew occurs in the duplex paper path.

- Refer to ADJ 80.2 Simplex and Duplex Buckle Timing. Check the duplex buckle.
- Check the nip and drive rolls in the inverter assembly for wear, damage and contamination, PL 10.10, PL 10.11 and Figure 1.
- Check the inverter guide ribs, Figure 1 for wear, damage and contamination.
- Check the drive and idler rolls in the duplex transport assembly for wear, damage and contamination, PL 80.22 and Figure 2.
- Check the inner and outer duplex ribs, Figure 2 for wear, damage and contamination.

Clean or install new components as necessary.

Using the prints made from dC612, check the prints for distortion by measuring between the lines produced. The lines are parallel to each other.

Y N

Install a new LED print head module, PL 60.35 Item 1.

Make 5 prints from each tray and the bypass tray to identify the source of skew:

- Refer to ADJ 80.2 Simplex and Duplex Buckle Timing. Check the simplex buckle.
- Check the feed rolls and guides for contamination. Clean the components as necessary.
- Check the feed rolls and transport rolls for wear. Install new components as necessary.

- If there is skew from tray 3 or tray 4, check the parts that follow:
 - The tray 3 and tray 4 paper guides for wear, damage or incorrect assembly. If necessary install new paper guides, PL 80.32 Item 11 (tray 3) or PL 80.33 Item 9 (tray 4).
 - The tray 3 and 4 skew brackets for wear. If necessary install new skew brackets, PL 70.18 Item 10 (tray 3) or PL 70.19 Item 10 (tray 4).
 - The idler roll assembly (metal shaft), PL 80.36 Item 8 (tray 4) or PL 80.32 Item 2 (tray 3). Install new components as necessary.
- Check that there is no variation in the size or weight of the sheets of paper in each tray.
- Check that the paper weight and type is within the specification. Refer to GP 20 Paper and Media Size Specifications.
- Check that the paper size guides are set correctly.
- Perform the OF8 Multifeed RAP.
- Check that the bypass tray width guides are set correctly.
- Check the bypass tray baffle, PL 70.35 Item 15 for contamination, wear or damage
- Check the registration transport housing ribs for wear, damage and contamination, Figure
 If necessary clean the housing or install a new registration transport housing, PL 80.17 Item 1.
- Check the paper path for obstructions. Refer to the IQ5 Print Damage RAP.

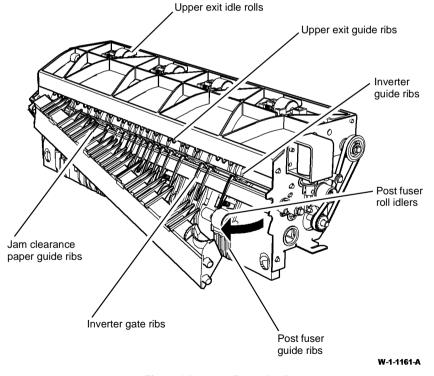


Figure 1 Inverter ribs and rolls

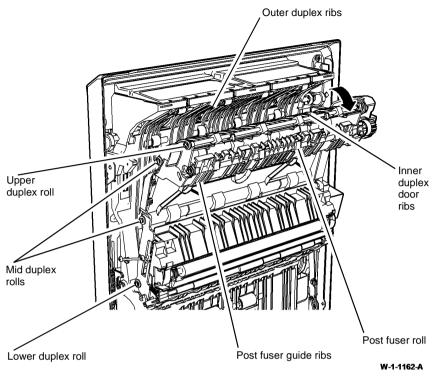


Figure 2 Duplex paper guides

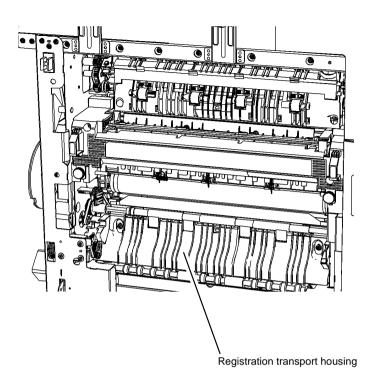


Figure 3 Registration transport

W-1-1163-A

IQ9 Unacceptable Received Fax Image Quality RAP

Use this RAP to identify the causes of poor reception.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Check the fax country setting, NVM location 200-043, is correct. Refer to the Fax NVM Document.

Procedure

The condition of the original transmission document is good.

Y N

Generate a new document from the original.

If possible, establish voice contact using the same telecommunication link as used to receive the document. The line is free of interference sounds and the normal voice can be heard clearly.

Y N

Perform the 320G Fax Module Checkout RAP.

Receive the document at a slower receive speed. Set the NVM location 200-089 Line 1 = 11 and location 200-090 Line 2 = 11. Refer to the Fax NVM Document. **The image quality is acceptable.**

N

The telecommunication links and harnesses are connected properly.

,

Correct the connections.

Check the condition of the telecommunication links and harnesses. The telecommunication links and harnesses are good.

Y N

Install a new telephone cable, PL 20.05 Item 3.

Verify the operation of the machine and the communication link by transmitting between machines over a known good link. All received documents have an acceptable image quality.

Y N

Install a new fax PWB, PL 20.05 Item 7.

Perform the 320G Fax Module Checkout RAP.

Inform the remote user of the required changes to the settings.

IQ10 Copy Quality Improvement RAP

Use this RAP if the customer is not satisfied with the copy quality.

Ensure IQ11 Print Quality Improvement RAP is performed before starting this RAP.

The copy quality can be altered by changing the copy defaults. This will optimize the copy quality to the unique requirements of the customer.

NOTE: These adjustments will have no effect on the image quality of the printed output.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Make a copy of the customer document that shows the defect and keep as a reference.
- Ensure that the customer copy quality requirements are understood.

NOTE: If the customer is using Toner Save mode, explain that this will lighten the image to save toner. Standard mode (Toner Save disabled) should be used for image quality problem solving.

Enter Customer Administrator Tools, GP 24. Press the Machine Status button. Select Tools / Service Settings / Copy Service. Disable the Toner Saver mode if it is not already disabled.

Procedure

- Clean the document glass and CVT glass. Refer to ADJ 60.1 Scanner Cleaning Procedure.
- Ensure the white patch on the CVT glass is present at the rear of the glass and is facing downwards.
- 3. Set Image Quality / Image Enhancement / Background Suppression to Off.
- Make 3 document glass copies of test pattern 82E2010 (A4), or 82E2020 (8.5 x 11 inches).
- Evaluate the second copy. Refer to IQS 1 Solid Area Density and Tone Reproduction.
- If the copy of the test pattern is out of specification, perform ADJ 60.3 IIT Registration, Magnification and Calibration. Make test copies. If the problem is now fixed, perform SCP 5 Final actions. If the fault persists, continue with this procedure.
- 7. If the copy quality meets the specification, but does not meet the customer's requirement, make copies of the test pattern, 82E2010/82E2020 or the customer's document, with different image quality settings until the image quality has been improved. Use different combinations of the image quality options that are available. Refer to the Image Quality Options.

NOTE: If the Text or the Halftone Photo option is selected then the Sharpness and Contrast sliders are greyed out. The Text option is the same as High Contrast 2. The Halftone Photo is the same as Low Contrast 1.

- 8. Enter Customer Administrator Tools, GP 24. In the Tools pathway, select Service Settings / Copy Settings / Feature Defaults / Set Copy Defaults / Image Quality.
- 9. Save the image quality options to be used as the default setting.
- 10. Select End Defaults and Exit Tools.
- 11. Run different jobs to confirm that the changes made have not caused other image quality problems.
- 12. Record the new values in the machine log book.
- 13. Perform an NVM save. Refer to GP 5.

Image Quality Options

Original type

- Content Type.
 - Photo and text.
 - Photo.
 - Text.
 - Map.
 - Newspaper/Magazine.
- How Original was Produced.
 - Printed Original.
 - Photocopied Original.
 - Photograph.
 - Ink Jet Original.
 - Solid Ink Original.

Image Options

- Lighten/Darken a choice of 7 steps from lightest to darkest, using a slider to select.
- Sharpness a choice of 5 steps from softest to sharpest, using a slider to select.

Image Enhancement

- Background Suppression.
 - Off.
 - Auto Suppression.
- Contrast:
 - Manual Contrast a choice of 5 levels from lowest to highest, using a slider to select.
 - Auto Contrast.

IQ11 Print Quality Improvement RAP

Use this RAP when the machine is making light or dark prints.

Perform IQ1 Image Quality Entry RAP before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check the fault log. Troubleshoot any current 310-XXX-XX, 36X-XXX-XX or 39X-XXX-XX
 faults
- 2. Check that there is toner in the toner cartridge.
- Check that the machine is level.
- 4. Remove and inspect the print cartridge:
 - If the drum is discoloured or hazy, install a new print cartridge, PL 90.17 Item 9.
 - If the print cartridge is contaminated with toner, go to the IQ3 Xerographic RAP and perform the Print Cartridge Checkout.
 - Ensure that the print cartridge is undamaged.
- Perform the LED Print Head Checkout.

NOTE: If the customer is using the print driver's Toner Save mode, explain that this will lighten the image to save toner. Standard mode (Toner Save disabled) should be used for image quality problem solving.

Procedure

Select dC612 Print Test Patterns. Make 3 prints of internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ). Mark these "START". Check the solid area density and tone reproduction. Refer to IQS 1 Solid Area Density and Tone Reproduction. The print quality meets the specification or the customer's requirements.

Y N

Remove the print cartridge. Mark a pencil line on the white plastic surface of the developer roll coupling. Re-install the print cartridge. Enter dC330 code 093-045, print cartridge motor. Allow the motor to run for approximately 5 seconds, then cancel the code. Remove the print cartridge. **The developer roll coupling has rotated.**

Y N

Check the drives to the developer. Repair or install new components as necessary:

- Developer dog gear, PL 40.15 Item 8.
- Spring, PL 40.15 Item 7.
- Main drive module, PL 40.15 Item 1.
- Print cartridge, PL 90.17 Item 9.

Check dC131 NVM location 501-349, TcSnrReading. The value is 291 +/- 10.

1

The value is less than 1023.

A B

Perform the steps that follow:

- 1. Perform dC301 Copier NVM Initialisation. Reset Copy Controller/System
- To stabilise the toner concentration controls, make 200 copies of internal test pattern 12 (ITP 19 Field test Pattern (A4). Refer to dC612 Print Test Patterns.
- Select dC612 Print Test Patterns. Make 3 prints of internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ). Check the solid area density and tone reproduction. Refer to IQS 1 Solid Area Density and Tone Reproduction.

The print quality meets the specification or the customer's requirements.

Check that the toner dispense is working. Refer to Wiring Diagram 9. Monitor the voltage on the grey wire on pin 1 of PJ766 on the IOT PWB while printing 20 copies of test pattern 82E2010/82E2020. This is the output of the toner concentration sensor. The voltage should be between +1.5V and +2.8V. The voltage is correct.

Υ Ν

> Perform the 393-390-00 Toner Cartridge Empty RAP. If the toner dispense is good, perform the 393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP.

Perform the IQ3 Xerographic RAP. Then perform Final Actions within this procedure.

Perform Final Actions within this procedure.

Perform the 393-360-00 to 393-364-00 Toner Concentration Sensor Failure RAP.

Perform the steps that follow:

- 1. Enter dC131 NVM location 501-300, LPH_Exposure_Fixed:
 - Increase the value by increments of 100 to darken the image.
 - Decrease the value by increments of 100 to lighten the image.
- Select dC612 Print Test Patterns. Make 3 prints of internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ). Check the solid area density and tone reproduction. Refer to IQS 1 Solid Area Density and Tone Reproduction.

The print quality meets the specification or the customer's requirements.

N

Perform the steps that follow:

1. Enter dC131 NVM location 501-299. DevBiasDC Fixed. Change the value in small increments up to a maximum change of +/- 40 units.

NOTE: Do not change the NVM location 501-299, DevBiasDC Fixed beyond a total of +/- 40 units, otherwise developer bead carry out may occur.

Select dC612 Print Test Patterns. Make 3 prints of internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ). Check the solid area density and tone reproduction. Refer to IQS 1 Solid Area Density and Tone Reproduction.

The print quality meets the specification or the customer's requirements.

Install a new print cartridge, PL 90.17 Item 9. Then perform Final Actions within this procedure.

LED Print Head Checkout

- If toner contamination is evident on the LED print head, perform ADJ 60.4 LED Print Head Cleaning Procedure.
- The LED print head may be too bright. Perform dC304 LED Print Head Validation.
- If there are 1 or more image defects in the form of bands that are 8mm (0.3 inch) wide, or multiples thereof, install a new LED print head module, PL 60.35 Item 1.
- Check the LED print head camming mechanism is working correctly. Check that there is no debris such as a dropped screw, that would prevent the LED print head from moving to the imaging position close to the photoreceptor.

Final Actions

Perform the following:

- 1. Run dC604 Registration Setup Routine.
- Check the copy quality. Perform the following:
 - Enter Customer Administrator Tools, GP 24, Press the Machine Status button. Select Tools / Service Settings / Copy Service. Disable the Toner Saver mode if it is not already disabled.
 - Make copies of test pattern 82E2010/82E2020 from the document glass.
 - If the copies do not meet the specification, IQS 1 Solid Area Density and Tone Reproduction, perform IQ10 Copy Quality Improvement RAP.
 - Re-enable the Toner Saver mode if the customer requires it.

NOTE: If the customer is using Toner Save mode, explain that this will lighten the image to save toner. Standard mode (Toner Save disabled) should be used for image quality problem solving.

- 3. Select dC612 Print Test Patterns. Print internal test patterns:
 - Number 5 (ITP 11 original IOT TRC+MQ).
 - Number 8 (ITP 15 Step-wedge (106dpi 45deg).

Mark these "FINISH" and write the new NVM values on these prints. Save these documents in the machine logbook for future reference:

- Record any image quality options selected onto the customer copy, and save in the machine logbook for future reference.
- Perform an NVM Save, dC361.
- Perform SCP 5 Final Actions.

IQ11

IQ12 Side 2 Scanner IQ Defects RAP

Use this RAP to identify image quality problems caused by the SPDH.

Ensure IQ1 Image Quality Entry RAP is performed before starting this RAP.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Procedure

Go to the appropriate image quality defect and perform the appropriate actions.

- Background.
- · Bands.
- Black Image.
- Deletions.
- Displaced and Fragmented Image.
- · Lines.
- Magnification.
- Misregistration.
- Part Images and Missing Images.
- Skew.
- Stretched and Distorted Images.
- Side 2 Scan Assembly Checkout.
- SPDH Checkout.

Background

Description

Uniform darkening across all the non image areas on the scanned file.

Procedure

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a duplex scan to USB file from the SPDH. View the resultant file on a computer screen. If the side 2 images have a background problem, perform the steps that follow:

- Check the SPDH height. Refer to ADJ 5.2 SPDH Height.
- Perform ADJ 60.3 IIT Registration, Magnification and Calibration.
- Copying thick documents can leave the SPDH raised above the document glass. Raise and lower the SPDH 5 times to settle the counterbalances.

Bands

Description

Light or dark bands on the scanned file in the process direction. These are best detected on a scan of a grey image such as ITP 2.

Procedure

Perform the Side 2 Scan Assembly Checkout and the SPDH Checkout.

Black Image

Description

Side 2 images are completely black.

Procedure

Perform the 366-450-00 to 366-463-00, 366-466-00 to 366-468-00 SPDH Side 2 Scanner Calibration Faults RAP.

Deletions

Description

Areas of the image are missing from the scanned file. Deletions may be in the form of lines or whole areas of toner missing from the image.

Procedure

Perform the Side 2 Scan Assembly Checkout. If necessary install a new side 2 scan assembly, PL 60.30 Item 1.

Displaced and Fragmented Image

Description

Displaced images, part images or scrambled images.

Procedure

Perform the Side 2 Scan Assembly Checkout. If necessary install a new side 2 scan assembly, PL 60.30 Item 1.

Lines

Description

Light or dark lines in the process direction. These are best detected on a scan of a grey image such as ITP 2.

Procedure

Perform the Side 2 Scan Assembly Checkout. If necessary install a new side 2 scan assembly, PL 60.30 Item 1.

Magnification

Description

At 100% magnification the scanned image differs from the size of the image on the original document. Refer to IQS 8 Magnification.

Procedure

Compare side 2 images produced from the SPDH with side 1 images produced from the document glass or CVT glass. If this comparison shows the SPDH magnification to be outside of the IQS 8 specification, install a new SPDH, PL 5.10 Item 9.

Misregistration

Description

The image in the scanned file is displaced relative to the lead or top edge. Refer to IQS 7 Registration.

Procedure

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a duplex scan of test pattern 82E2010/82E2020 to USB file. View the resultant file on a computer screen. If the scanned image shows misregistration, perform the SPDH Checkout and the ADJ 60.3 IIT Registration. Magnification and Calibration.

Part Images and Missing Images

Description

Incomplete or missing images.

Procedure

Go to the 305A Document Size Sensors Failure RAP.

Skew

Description

A difference in angular alignment between the scanned image and the original document.

Procedure

Refer to IQS 5 Skew. Perform the SPDH Checkout. Check that the SPDH document width guides, Figure 1, are correctly adjusted. If necessary, perform ADJ 5.3 SPDH Skew.

Stretched and Distorted Images

Description

The scanned file image is stretched or distorted.

Procedure

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

Make a duplex scan of test pattern 82E2010/82E2020 to USB file from the SPDH. View the resultant file on a computer screen. If the images are stretched or smudged, lower the height of the SPDH by half a turn of the setting screws. Refer to ADJ 5.2 SPDH Height. Make new files from the SPDH after each adjustment. If the fault persists, re-adjust the height of the SPDH as necessary.

Side 2 Scan Assembly Checkout

Perform the steps that follow:

- If the copy of the internal test pattern (made from the IQ1 RAP) is fragmented and displaced, check the components that follow:
 - The ribbon cable from the Side 2 CCD PWB, PJ451 to the to the Scanner PWB, PJ413, Refer to WD 16.
 - The ribbon cable from the Side 2 CCD PWB, PJ452 to the to the SPDH PWB, PJ458. Refer to WD 13
- Raise the SPDH. Enter dC330 code 066-002, SPDH exposure lamp. If the SPDH exposure lamp does not illuminate, perform the 366A Side 2 LED Exposure Lamp Failure RAP.
- Perform ADJ 60.2 Side 2 Scan Assembly Cleaning Procedure.

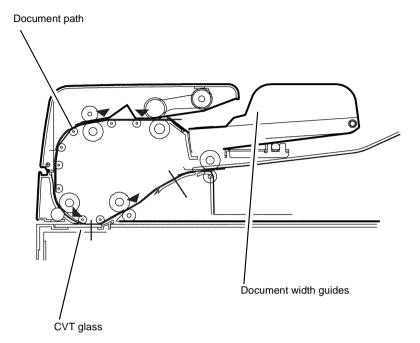
SPDH Checkout

Perform the steps that follow:

- Clean the underside of the SPDH around the area of the side 2 scan assembly, PL 5.10 Item 12. Refer to ADJ 5.4 SPDH Cleaning Procedure.
- Clean the top surface of the CVT glass, Figure 1. Refer to ADJ 60.1 Scanner Cleaning Procedure.
- ADJ 60.2 Side 2 Scan Assembly Cleaning Procedure.
- ADJ 60.3 IIT Registration, Magnification and Calibration.
- Check that the SPDH is seated correctly. If necessary, perform the ADJ 5.2 SPDH Height.

NOTE: The Scan to USB option must be made available by the System Administrator. If Authentication or Accounting has been enabled on the device you may have to enter login details to access the Scan To features.

- Make scan to USB files of test pattern 82E2010/82E2020 from the SPDH and the document glass. View the resultant files on a computer screen. If the images from the SPDH are lighter or darker than those from the document glass, go to dC131 NVM Read/Write location 801-020, CvtWhiteRefMono. If the value is increased, images made from the SPDH will be darker. If the value is decreased, images made from the SPDH will be lighter.
- Make a scan to USB file of test pattern 82E2010/82E2020 from the SPDH. View the resultant file on a computer screen. If the images are stretched or smudged, lower the height of the SPDH by half a turn of the setting screws. Refer to ADJ 5.2 SPDH Height Adjustment. Make new files from the SPDH after each adjustment. If the fault persists, readjust the height of the SPDH as necessary.



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Figure 1 SPDH document path

IQS 1 Solid Area Density and Tone Reproduction

Documents

Test patterns: 82E2000 (A3 and 11X17), 82E2010 (A4), 82E2020 (8.5X11), and the solid area density scale. 82E8230 (SIR 542.00) for reference.

Specification

NOTE: Always set up the print quality to specification before measuring or adjusting copy quality.

NOTE: Always measure print and copy quality in Standard mode (Toner Save disabled).

Print

Compare a print of the internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ), Figure 1, with the solid area density scale, 82E8230 (SIR 542.00).

- The density of the 100% solid area must be as dark or darker than the 1.2 reference, and no darker than the 1.5 reference.
- The density of the 90% and 95% solid areas may be as dark as the 100% solid area.
- The density of the 85% solid area should be just lighter than the 100% solid area.
- The 10% solid area should be visible compared to white paper.
- The 5% solid area may be invisible.
- Each density area from 10% to 85% must be distinguishable from its neighbours.

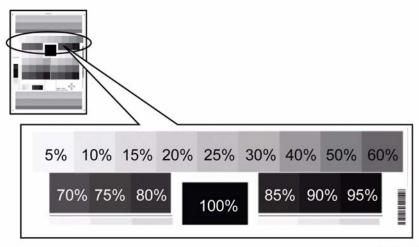
Copy

Compare copies of the test pattern, Figure 2, made from the document glass, with a print of internal test pattern 21 (ITP 11 Error Diffused IOT TRC+MQ) that is within the print specification:

- The density of the 2.1, 2.3, and 2.5 squares should be as dark as the 70%, 75% or 80% solid area, Figure 1, but less than the 85% solid area of ITP 21.
- The 3.0, 3.3 and 3.4 text areas should all be visible.
- The 4.1 line pair should be visible with ABS (automatic background suppression) turned on
- The 4.2 line pair should be visible with ABS turned off.
- The 4.3 line pair may be slightly visible with ABS turned off.
- The 2.0, 2.2 and 2.4 squares should be lighter than the 2.1, 2.3 and 2.5 squares.

Corrective Action

- If the print solid area density specification is not met, perform the IQ3 Xerographic RAP.
- If the lighter end of the ITP 21 density patches do not reproduce correctly, perform the IQ11 Print Quality Improvement RAP.
- If the print quality meets the specification, but the copy quality does not, perform IQ10 Copy Quality Improvement RAP.



W-1-1232-A

Figure 1 Internal test pattern 21

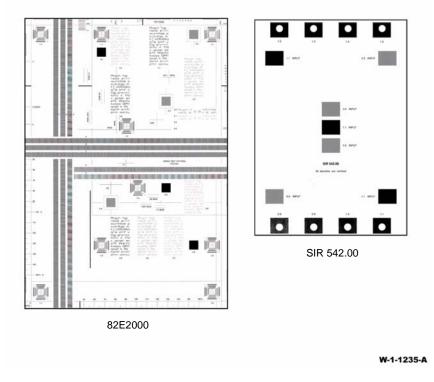


Figure 2 Test patterns

IQS 2 Background

Documents

Test patterns: 82E2000 (A3 and 11X17) 82E2010 (A4) 82E2020 (8.5X11) and visual scale, 82P448 for reference.

Specification

Сору

Compare the copies of the test pattern, Figure 1, made from the document glass, with the visual scale, 82P448. The background of the copies must be lighter than the reference area B.

Print

Compare a print of the internal test pattern 1 (ITP 1 0% coverage), Figure 2, with the visual scale, 82P448. The background of the print must be lighter than the reference area B.

Corrective Action

If the background specification is not met, perform the IQ3 Xerographic RAP.

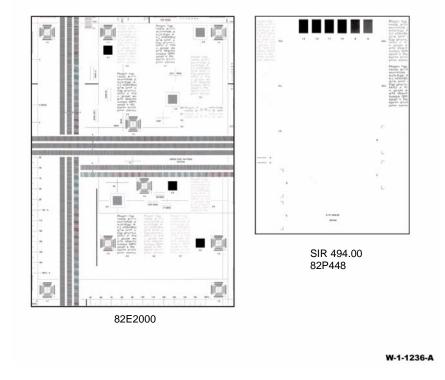


Figure 1 Test pattern



Figure 2 Internal test pattern 1

IQS 3 Fusing

Documents

Test Patterns: 82E2000 (A3 and 11X17) 82E2010 (A4) 82E2020 (8.5X11).

Procedure

Make 5 copies of the test pattern, Figure 1. Check the fusing by folding one of the copies through the centre of a solid area. Use a finger to apply medium pressure along the fold to crease the paper. Unfold the copy. Use a finger to lightly rub the area of the fold and adjacent areas.

Specification

Any break should measure less than 1mm (1/32 inch) across the line of a fold. Any area rubbed with a cloth should not smudge or the image lift off the surface of the paper. When checking the fusing on heavyweight paper (200gsm), rub the image with a finger. Images fused on the smooth side of the paper have a greater resistance to rubbing than images fused on the rough side of the paper. Do not attempt to fold heavyweight paper, as this breaks the fibres.

Corrective Action

If the fusing specification is not met, perform the IQ4 Fuser Module RAP.

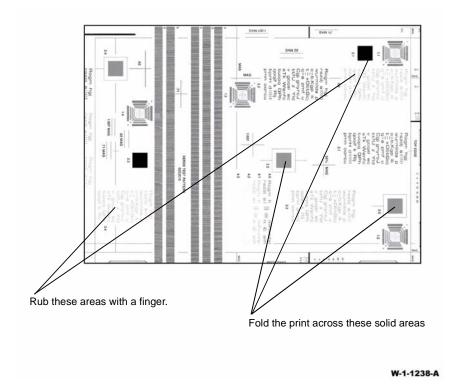


Figure 1 Test pattern

IQS 4 Resolution

Documents

Test patterns: 82E2000 (A3 and 11X17) 82E2010 (A4) 82E2020 (8.5X11).

Specification

Сору

Make 3 copies of a test pattern from the document glass. Examine the targets of the second copy to determine the overall resolution of the copy. The lines identified by the letter H, Figure 1, should be clearly reproduced at 100%

Print

Make 3 prints of internal test pattern 5 (ITP 11 Original IOT TRC+MQ). Examine the lines of the second print. All lines should be resolved.

Corrective Action

If the resolution specification is not met, go to IQ3 Xerographic RAP and perform the LED Print Head Checkout.

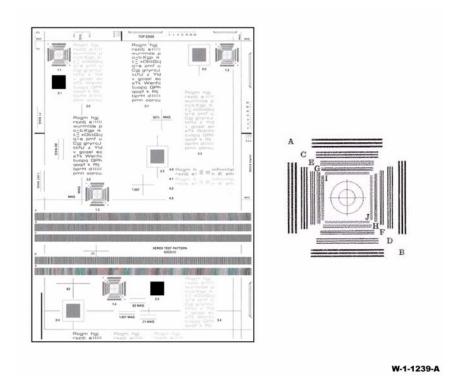


Figure 1 Test pattern

IQS 5 Skew

Documents

Test patterns: 82E2000 (A3 and 11x17), 82E2010 (A4), 82E2020 (8.5x11). Use for checking copy skew with border erase turned off or scan skew.

Procedure

Go to the relevant procedure:

- Print Skew
- Copy Skew
- Scan Skew

Print Skew

Specification

Refer to Table 1.

Table 1 Print skew measurement

| Source of Paper | Maximum Allowable Skew |
|---------------------------|------------------------|
| Trays 1,2,3 and 4 simplex | 1mm |
| Trays 1,2,3 and 4 duplex | 1.6mm |
| Bypass tray | 2.2mm |

Skew Measurement

To check for skew, perform the following:

- 1. Enter dC612. Make a simplex print of the relevant internal test pattern:
 - Number 11 (ITP 19 Field test pattern (letter).
 - Number 12 (ITP 19 Field test pattern (A4).
 - Number 13 (ITP 19 Field test pattern (A3).
 - Number 14 (ITP 19 Field test pattern (11x17).

NOTE: Two, single sided pages will be printed.

- 2. Refer to Figure 1. Determine the amount of skew by using the corner scales. Measure the distance to the lead edge of the paper at the inboard and outboard edges.
- Make a duplex print of the same internal test pattern.
- 4. Refer to Figure 2. Determine the amount of skew by using the corner scales. Measure the distance to the lead edge of the paper at the inboard and outboard edges.
- If skew is not within specification on either side, perform ADJ 80.2 Simplex and Duplex Buckle Timing.

Copy Skew

Specification

Refer to Table 2.

Table 2 Copy skew measurement

| Type of Copy | Maximum Allowable Skew from Trays 1, 2, 3 and 4 | Maximum Allowable Skew from Bypass Tray |
|----------------|---|--|
| Platen simplex | 1.4mm | 1.9mm |
| Platen duplex | 1.7mm | 2.3mm |
| SPDH simplex | 2.5mm | 3.1mm |
| SPDH duplex | 3.1mm | 3.7mm |

Skew Measurement

To check for skew, perform the following:

- Make a simplex copy of test pattern 82E2000 (A3 and 11x17), 82E2010 (A4) or 82E2020 (8.5x11).
- 2. Make a duplex copy of the same test pattern.

NOTE: When making the duplex copy, place the test pattern so that the side of the test pattern with the datum line is copied onto side 2.

- 3. Refer to Figure 3. Determine the amount of skew by either:
 - measuring the distance between the datum line and the lead edge of the paper at the inboard and outboard edges.
 - using the grid A and grid B areas of the test pattern to directly measure the skew difference

NOTE: Grid A and grid B are small areas of parallel lines 1mm apart.

4. If skew is not within specification, perform ADJ 80.2 Simplex and Duplex Buckle Timing.

Scan Skew

Specification

Refer to Table 3.

Table 3 Scan skew measurement

| Type of Scan | Maximum Allowable Skew from Trays 1, 2, 3 and 4 |
|------------------------------|---|
| Platen simplex | 1.4mm |
| Platen duplex | 1.7mm |
| Document handler simplex CVT | 2.5mm |
| Document handler duplex SPDH | 3.1mm |

Skew Measurement

To check for skew, perform the following:

 Produce a Scan to USB file of test pattern 82E2000 (A3 and 11x17), 82E2010 (A4) or 82E2020 (8.5x11), then view the file on a computer screen.

- 2. Refer to Figure 3. Determine the amount of skew by either:
 - measuring the distance between the datum line and the lead edge of the paper at the inboard and outboard edges.
 - using the grid A and grid B areas of the test pattern to directly measure the skew difference.

NOTE: Grid A and grid B are small areas of parallel lines 1mm apart.

- 3. If skew is not within specification, perform the relevant procedure:
 - For skew produced in the SPDH, perform ADJ 5.3 SPDH Skew Adjustment.
 - For skew produced from the document glass, perform the IQ7 Document Glass and Scanner IQ Defects RAP.
 - For skew produced in the bypass tray, perform ADJ 80.4 Bypass Tray Nip Pressure.

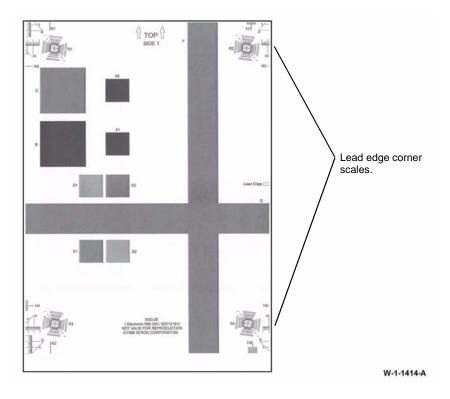


Figure 1 Print skew measurement (simplex)

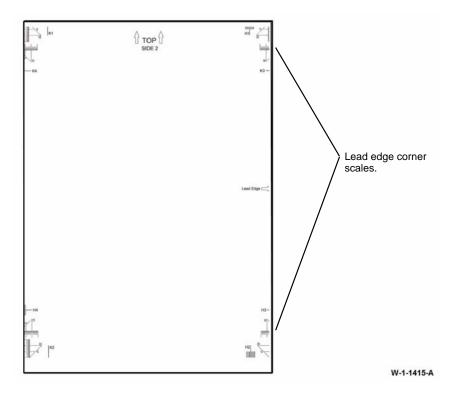


Figure 2 Print skew measurement (duplex)

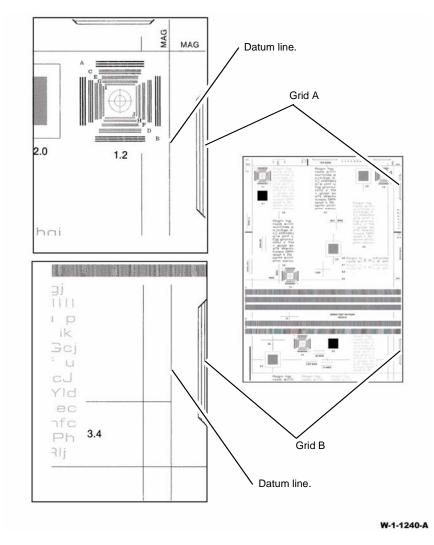


Figure 3 Copy and scan skew measurement

IQS 6 Copy / Print Defects

The machine should produce copies/prints free of defects. Any defects not explicitly covered by this specification should be considered as a fault.

Show Through

No show through of the underside of the document handler should be visible when using Xerox 80gsm (20lb) or heavier paper as an input document. The check is made with the document handler closed and in normal copy/print mode. Some show through may occur using 60gsm (15lb) paper as documents.

Corrective action

If show though of the underside of the document handler is visible, ensure that the document pad is clean. Refer to ADJ 5.4 SPDH Cleaning. If necessary, install a new document pad, PL 5.10 Item 3.

Dark Spots

Dark spots are toner deposits in the background area of a copy/print. The specification is for the total image area. To assess for dark spots use the dC612 internal test print1.

- Spots of 0.4mm (0.016 inch) and larger none allowed.
- Spots 0.3mm to 0.4mm (0.012 to 0.015 inch) no more than 1 spot per A4 (8.5 x 11 inch) page.
- Spots 0.2mm to 0.3mm (0.008 to 0.012 inch) no more than 6 spots per A4 (8.5 x 11 inch) page.
- Spots 0.15mm to 0.2mm (0.006 to 0.008 inch) no more than 10 spots per A4 (8.5 x 11 inch) page.

Corrective Action

Go to the IQ7 Document Glass and Scanner IQ defects RAP and perform the Marks and spots procedure.

White Spots

White spots are areas visible on a half tone or solid area where the toner has failed to be deposited. The specification is for the total image area. To assess for white spots use the dC612 internal test pattern 2 (ITP 3 25% halftone (106dpi 45deg).

- Spots of 1mm (0.04 inch) and larger none allowed.
- Spots 0.5mm to 1mm (0.02 to 0.04 inch) no more than 1 spot per A4 (8.5 x 11 inch) page.
- Spots 0.25mm to 0.5mm (0.01 to 0.02 inch) no more than 4 spots per A4 (8.5 x 11 inch) page.
- Spots 0.125mm to 0.25mm (0.005 to 0.01 inch) no more than 20 spots per A4 (8.5 x 11 inch) page.

Corrective Action

Go to the IQ2 IOT IQ Defect RAP and perform the Deletions procedure.

Paper Wrinkle

Paper wrinkles which result in the loss of information are unacceptable at any level. In any mode, copies/prints containing wrinkles or creases of 84mm (3.3 inch) or less in length which do not result in the loss of information may occur less frequently than 1 in 10 consecutive copies/prints in that mode. This is applicable to all base line papers; to simplex prints, provided the paper is stored inside the printer and that the printer is operated within the environmental specification.

Corrective Action

Perform the checks that follow:

- That the paper stock conforms to the specification. Refer to GP 20 Paper and Media Size Specifications. Inform the customer if the paper is outside of the specifications.
- The customer's paper storage conditions. Paper must be stored in unopened packs in cool dry conditions. Inform the customer if the storage conditions are not good.
- The environmental conditions. Refer to GP 23 Environmental Data. Inform the customer if the environmental conditions are outside of the specifications.
- For damaged rollers in the paper path.
 - Wrinkles occurring before image transfer can be flattened by the fuser, resulting in a wrinkled image even though the paper is flat. This type of wrinkle shows up well on a print of dC612 internal test pattern 3 (ITP 5 50% halftone (106dpi 45deg).
 - Wrinkles occurring after transfer tend to be creased into the paper and can be caused in the fuser.

Hole Punch Performance

The hole punch unit makes a set of holes near the trail edge of single copies or prints. The dimension between the holes are set by the hole punch. The position of the holes from the trail edge is controlled by the software that uses timing information from the punch sensor. The specification for the hole positions in the top to bottom direction is +/-2 mm, with A4 / 80gsm (8.5x11 inch 75gsm) simplex, from a single tray in a nominal environment. For all other paper sizes, weights, trays and environments, the specification is +/-3 mm.

IQS 7 Registration

Documents

Test patterns: 82E2010 (A4), 82E2020 (8.5 X 11).

Print Registration Specifications

Refer to Table 1.

Table 1 Registration measurement

| Parameter | Tolerance |
|---|-------------------------|
| Lead edge registration error on a simplex sheet | +/- 1.6 mm (0.063 inch) |
| Lead edge registration error on a duplex sheet | +/- 2 mm (0.079 inch) |
| Top edge registration error on a simplex sheet | +/- 2.1 mm (0.082 inch) |
| Top edge registration error on a duplex sheet | +/- 2.1 mm (0.082 inch) |

Registration measurement

Enter dC612. Select the relevant internal test pattern:

- Number 11 (ITP 19 Field test pattern (letter).
- Number 12 (ITP 19 Field test pattern (A4).
- Number 13 (ITP 19 Field test pattern (A3).
- Number 14 (ITP 19 Field test pattern (11x17).

Use the measurement scales at each end of the top edge to measure the displacement of the top of the image from the paper top edge.

Use the measurement scales at each end of the lead edge to measure the displacement of the side of the image from the paper lead edge.

NOTE: If a there is a difference between any pair of measurements, refer to IQS 5 Skew.

Corrective Action

Perform the dC604 Registration Setup.

Copy Registration Specifications

Refer to Table 2.

Table 2 Registration measurement

| Parameter | Tolerance |
|---|-------------------------|
| Lead edge registration error on a simplex sheet | +/- 1.6 mm (0.063 inch) |
| Lead edge registration error on a duplex sheet | +/- 2 mm (0.079 inch) |
| Top edge registration error on a simplex sheet | +/- 2.1 mm (0.082 inch) |
| Top edge registration error on a duplex sheet | +/- 2.1 mm (0.082 inch) |

Registration measurement

Make a copy of test pattern 82E2010 (A4) or 82E2020 (8.5 X 11).

Use the grids A and B on the copy, Figure 1, to measure the displacement of the lead edge compared to the test pattern. Use the grid C, Figure 1, to measure the top edge displacement. The displacement measured at A and B should be equal.

NOTE: Grid A and grid B of test patterns 82E2000, 82E2010, 82E2020 are small areas of parallel lines 1mm apart. These can be used to directly measure the registration displacement.

NOTE: If a there is a difference between measurements at A and B, refer to IQS 5 Skew.

Corrective Action

Perform the dC604 Registration Setup.

Scan Registration Specifications

Refer to Table 3.

Table 3 Registration measurement

| Parameter | Tolerance |
|--|-------------------------|
| Left edge registration error - platen | +/- 1.6 mm (0.063 inch) |
| Top edge registration error - platen | +/- 2.1 mm (0.082 inch) |
| Left edge registration error - CVT (side 1) | +/- 2.3 mm (0.091 inch) |
| Top edge registration error - CVT (side 1) | +/- 3.0 mm (0.118 inch) |
| Left edge registration error - SPDH (side 2) | +/- 2.3 mm (0.091 inch) |
| Top edge registration error - SPDH (side 2) | +/- 3.0 mm (0.118 inch) |

Registration measurement

Make a scan to USB of test pattern 82E2010 (A4) or 82E2020 (8.5 X 11).

Use the grids A and B on the soft copy viewed on a computer screen, Figure 1, to measure the displacement of the left edge compared to the test pattern. Use the grid C, Figure 1, to measure the top edge displacement. The displacement measured at A and B should be equal.

NOTE: Grid A and grid B of test patterns 82E2000, 82E2010, 82E2020 are small areas of parallel lines 1mm apart. These can be used to directly measure the registration displacement.

NOTE: If a there is a difference between measurements at A and B, refer to IQS 5 Skew.

Corrective Action

Perform the dC604 Registration Setup.

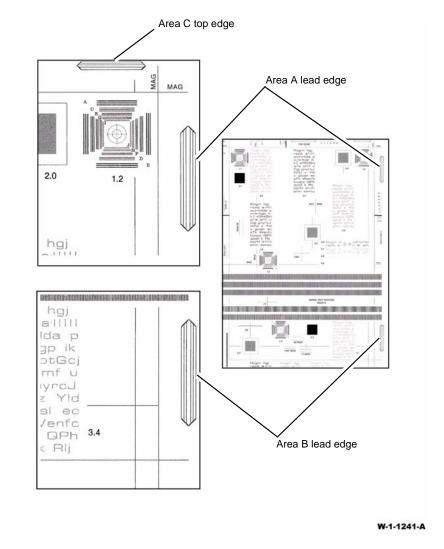


Figure 1 Registration measurement

Documents

Use the internal test pattern generated in dC604 Registration Setup.

Specifications

Refer to Table 1.

Table 1 Magnification

| Parameter | Nominal | Minimum | Maximum | Dimension A | Dimension B |
|---|---------|---------|---------|---|--|
| In process direction from the platen. A4 80gsm (letter 20lb) papers. | 100% | 99.3% | 100.7% | 260 +/- 0.78mm (10.24 +/- 0.03 inch) | 190 +/- 0.57mm (7.48 +/- 0.02 inch) |
| Cross process direction from the platen. A4 80gsm (letter 20lb) papers. | 100% | 99.3% | 100.7% | 260 +/- 0.78mm (10.24 +/- 0.03 inch) | 190 +/- 0.57mm (7.48 +/- 0.02 inch) |
| From CVT or SPDH. A4 80gsm (letter 20lb) papers. A4 80gsm (letter 20lb) papers. | 100% | 99.5% | 101% | 258.7 to 262.6mm (10.19 to 10.34 inch) | 189.05 to 191.9mm (7.44 to 7.56 inch) |
| In process and cross process direction print. A4 80gsm (letter 20lb) papers. | 100% | 99.6% | 100.4% | 260 +/- 1.04mm (10.24 +/- 0.04 inch) | 190 +/- 0.76mm (7.48 +/- 0.03 inch) |
| In process and cross process direction print. For all other papers. | 100% | 99.5% | 100.5% | 260 +/- 1.3mm (10.24 +/- 0.05 inch) | 190 +/- 0.95mm (7.48 +/- 0.04 inch) |

Magnification measurement

Make copies of the registration test pattern from the document glass and through the SPDH. Fold the printed images across Zone A to Zone C and from Zone B to Zone D. Lay the folded printed images over the unfolded test pattern. Compare the dimensions, Figure 1.

Corrective action

Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

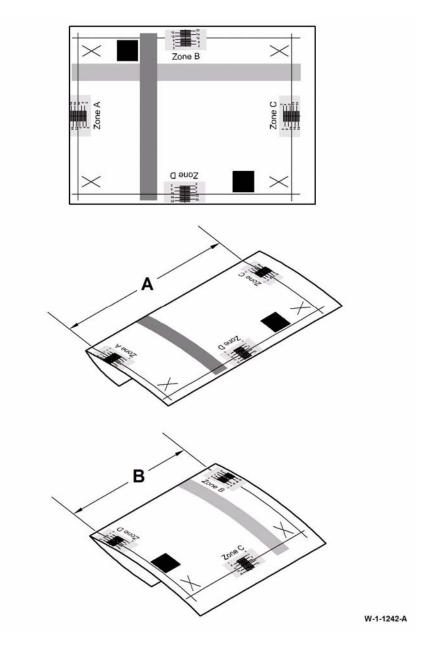


Figure 1 Magnification check

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REP 1.1 LVPS Module Removal

Parts List on PL 1.10 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



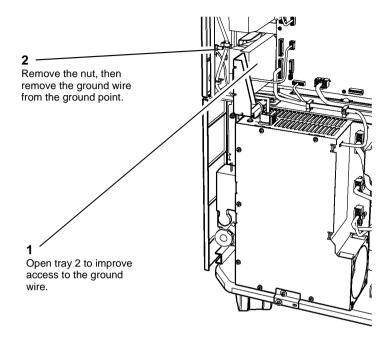
Figure 1 ESD Symbol



Observe ESD procedures during this procedure.

- 1. Switch off the machine, GP 14. Disconnect the power cord.
- 2. Disconnect the power cord to the output device if fitted.
- 3. Remove the rear cover, REP 28.2.
- 4. Remove the lower rear cover, PL 70.26 Item 1.

5. Disconnect the ground wire from the main frame ground point, Figure 2.



W-1-1040-A

Figure 2 Main frame ground point

6. Disconnect the wiring to the LVPS, Figure 3.

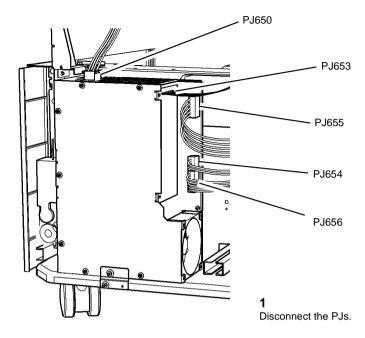


Figure 3 Wiring disconnection

7. Remove the LVPS module, Figure 4.

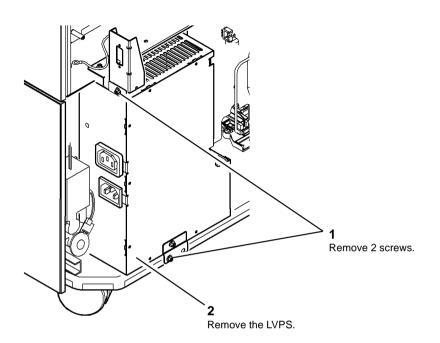


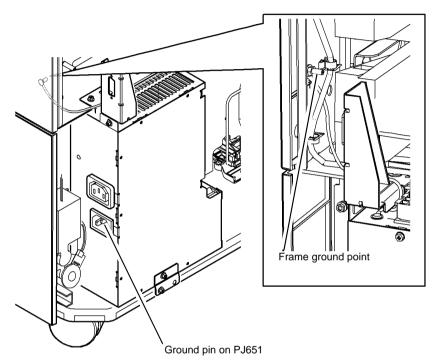
Figure 4 LVPS module removal

W-1-1041-A

W-1-1042-A

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Ensure that the nut on the main frame ground point is tightened to secure the ground terminal. Refer to Figure 2.
- 3. Using a digital multimeter set to a resistance range, verify that there is continuity between the ground pin on PJ651 and the frame ground point of less then 10 ohms, Figure 5.



W-1-1043-A

Figure 5 Ground check

REP 1.2 Wiring Harness

Purpose



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Do not attempt any repairs to the power cord or safety ground harness / conductor.

NOTE: Safety ground connections use green/yellow wires (green insulation with a yellow stripe or band). The scanner module safety ground is a flat braid covered with a black sleeve.

The steps that follow identify the relevant procedures for repairing the machine connectors.

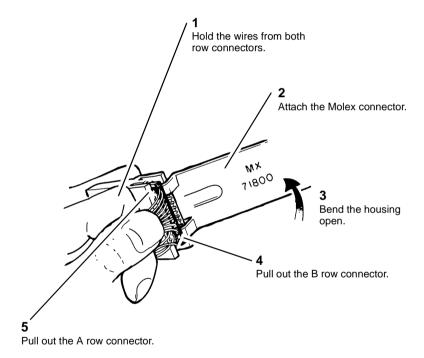
- 1. The harness assemblies that follow are spared, install new components:
 - Control to status PWB ribbon cable, PL 2.10 Item 8.
 - Control to keyboard PWB ribbon cable, PL 2.10 Item 10.
 - Extension cable, PL 3.22 Item 21.
 - LED print head module to SBC PWB ribbon cable, part of the LED print head module, PL 60.35 Item 1.
 - Main power cord, PL 1.15 Item 1.
 - Scan carriage power ribbon cable, PL 60.20 Item 10.
 - Scan carriage data ribbon cable PL 60.20 Item 17.
 - Side 2 scan assembly data ribbon cable, PL 5.10 Item 16.
 - Side 2 scan assembly power ribbon cable, PL 5.10 Item 6.
- The connectors that follow can be repaired by removing the faulty terminals then installing new terminals:
 - Molex SL connectors, REP 1.3.
 - Male Hirose DF1B connectors, REP 1.4.
 - AMP EI connectors, REP 1.5.
 - Hirose DF11 connectors, REP 1.6.
 - AMP CT connectors, REP 1.7.
 - Molex mini-fit junior connectors, REP 1.11.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: Molex connectors have small black housings in single or double rows, formed with miniature square section pins and sockets.

1. If the damaged connector is in the centre of a double row housing beneath the latching clip, the latching prong will not be accessible to release the connector from the housing. Therefore it will be necessary to disassemble the housing as shown in Figure 1.



W-1-1381-A

Figure 1 Disassembling the connector

2. Remove the terminal from the connector housing using the Molex extractor tool, Figure 2.

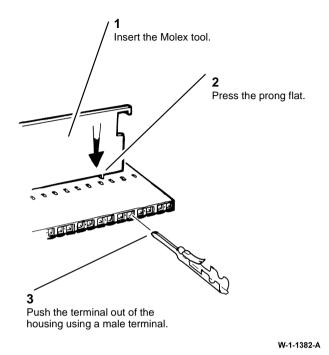


Figure 2 Removing the terminal

3. Cut off the damaged terminal, then strip 3mm of insulation from the end of the wire.

Replacement

- Select the correct replacement terminal, and identify the appropriate crimp positions for the terminal.
- Insert a male or female terminal into the appropriate position of the crimp tool, then close the tool just enough to hold the terminal, Figure 3.

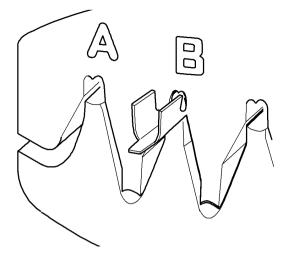


Figure 3 Crimping the terminal

- 3. Insert the wire fully into the terminal so that the stripped portion of the wire is within the inner grip of the terminal. Close the crimp tool fully to make the crimp.
- 4. Insert the crimped terminal into the appropriate position of the crimp tool and close the crimp tool, to fasten the insulation of the wire in the outer grip of the terminal, Figure 4.

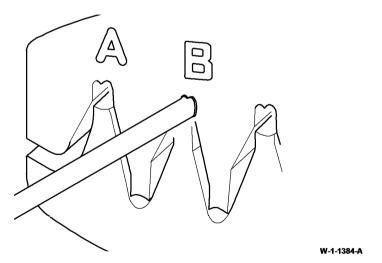
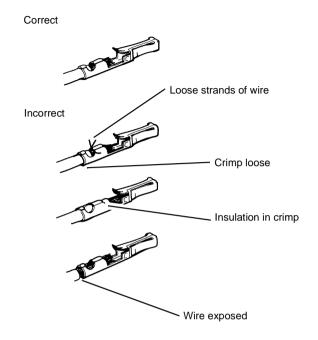


Figure 4 Crimping the insulation grip

5. Check that the crimp is correctly made, Figure 5.



W-1-1385-A

Figure 5 Inspecting the finished crimp

- 6. Insert the replacement terminal into the connector housing.
- If the repair was carried out on a double row connector that was disassembled, push both
 connectors into the housing taking care that the "A" connector is fitted on the fastener
 side.

W-1-1383-A

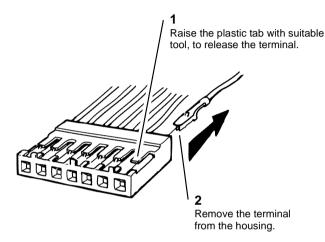
REP 1.4 Male Hirose DF1B Connectors

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

1. Remove the damaged terminal from the housing, Figure 1.



W-1-1386-A

Figure 1 Remove the terminal

2. Cut off the damaged terminal, then strip 3mm of insulation from the end of the wire.

Replacement



There are different terminals for large gauge and small gauge wire. Ensure that the correct replacement terminal is used.

 Select the correct replacement terminal and identify the appropriate crimp positions for the terminal. **NOTE:** These connectors can be repaired using either crimp terminals or pre-crimped terminals with flying lead and butt connector, as required.

Insert the terminal into the appropriate position of the crimp tool and close the tool just enough to hold the terminal. Figure 2.

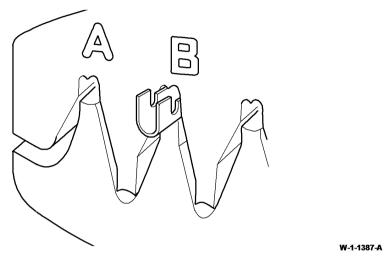


Figure 2 Crimping the terminal

 Insert the wire fully into the terminal so that the stripped portion of the wire is within the longer grip of the terminal and the insulation of the wire is within the cable grip of the terminal. Close the crimp tool fully to make the crimp; check that the wire is firmly crimped in the terminal.

- Insert the crimped terminal into the appropriate position of the crimp tool, then close the crimp tool to firmly fasten the insulation of the wire in the cable grip of the terminal, Figure 3.
- 5. Check that the crimp is correctly made, Figure 4.

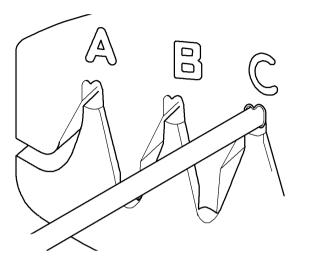
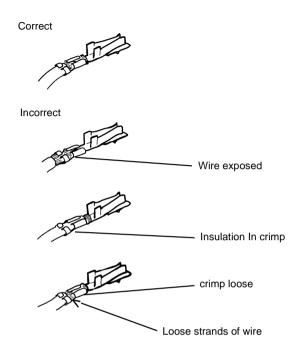


Figure 3 Crimping the insulation grip



W-1-1389-A

Figure 4 Inspecting the finished crimp

6. Insert the replacement terminal into the connector housing.

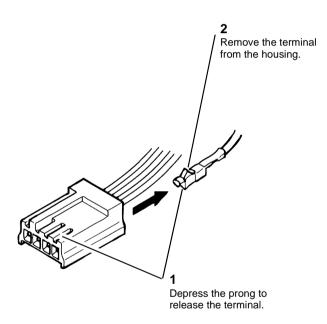
W-1-1388-A



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

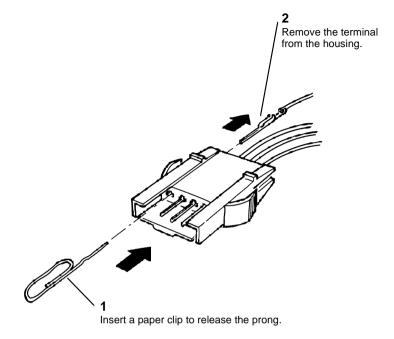
NOTE: The male housings contain socket terminals, and the female housings contain pin terminals.

Use the extractor tool, to release the terminal from the housing. Refer to Figure 1 to identify the male housing and terminal type. Refer to Figure 2 to identify the female housing and the terminal type.



W-1-1390-A

Figure 1 Terminal removal; male housing



W-1-1391-A

Figure 2 Terminal removal; female housing

2. Cut off the damaged terminal, then strip 3mm of insulation from the end of the wire.

Replacement

- Select the correct replacement terminal and identify the appropriate crimp positions for the terminal.
- 2. Insert the terminal into the appropriate position of the crimp tool and close the tool enough to hold the terminal, Figure 3.

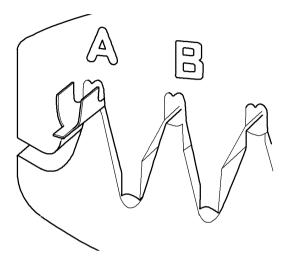


Figure 3 Crimping the terminal

3. Insert the wire completely into the terminal, so that the stripped portion of the wire is in the longer grip of the terminal. The insulation of the wire is within the cable grip of the terminal. Close the crimp tool completely to make the crimp. Check that the wire is crimped firmly in the terminal.

4. Insert the crimped terminal into the appropriate position of the crimp tool and close the crimp tool to firmly fasten the insulation of the wire in the cable grip of the terminal, Figure 4.

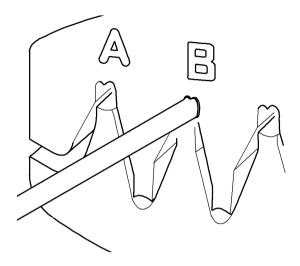


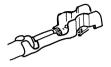
Figure 4 Crimping the insulated grip

W-1-1392-A

W-1-1393-A

5. Check that the crimp is correctly made, Figure 5.

Correct



Incorrect

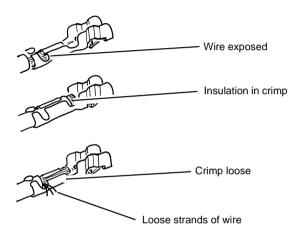


Figure 5 Inspect the finished crimp

Insert the replacement terminal into the connector housing.

REP 1.6 Hirose DF11 Connectors

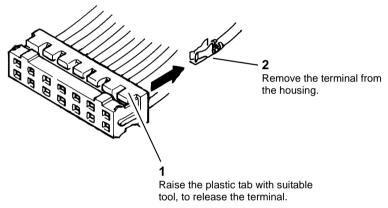
Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: The male housing contains female terminals that cannot be crimped in the field; if a terminal is damaged, install a new terminal with flying lead.

1. Remove the damaged terminal from the connector housing, Figure 1.



W-1-1395-A

Figure 1 Terminal removed

2. Cut the damaged terminal off the wire.

Replacement

- 1. Insert the replacement terminal with flying lead into the connector housing.
- 2. Use a butt connector to connect the flying lead to the original wire.

W-1-1394-A

REP 1.7 AMP CT Connectors

Removal



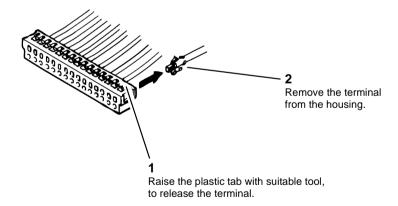
Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Amp CT connectors use in-line adaptors to connect housings together. Ensure that the correct adaptor is used for each in-line connection. Do not attempt to disassemble or repair the in-line adaptors.

NOTE: There are two types of CT connector: insulation displacement connector (IDC) or crimp terminal. Repairing crimp terminal CT connectors is performed by installing individual replacement terminals with flying leads, connected to the existing wiring with connector splicing blocks (removal steps 2 and 3). Repairing IDC connectors is performed by installing a complete replacement housing with wires already fitted, connected to the existing wiring with connector splicing blocks (removal steps 4 and 5). The replacement procedure is only applicable to crimp terminal connectors.

- 1. Identify the terminal type. Go to step 2 for a housing containing crimp terminals, or go to step 4 for a housing containing insulation displacement (IDC) terminals.
- Remove the damaged crimp terminal from the connector housing, Figure 1.



W-1-1396-A

Figure 1 Terminal removal

Cut the damaged crimp terminal off of the wire.

- IDC housings are repaired by installing a complete replacement housing with wires already fitted, These are connected with connector splicing blocks to the existing wiring. Select the correct replacement connector.
- 5. Cut one wire from the faulty connector and then reconnect the wire to the appropriate flying lead on the replacement connector. Repeat this process for each wire in turn, until the faulty connector has been fully disconnected and the replacement connector installed in its place.

Replacement

- Insert the replacement crimp terminal with flying lead into the connector housing.
- Use a connector splicing block to connect the flying lead to the original wire.

REP 1.8 Front Door Interlock Removal (W/O TAG 015)

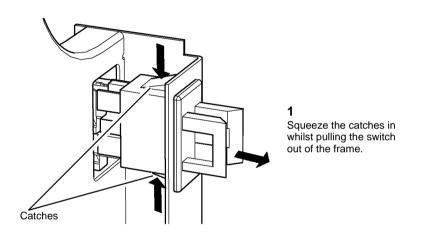
Parts List on PL 1.12

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

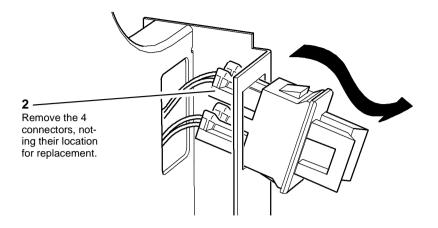
- 1. Remove the latch, PL 60.35 Item 2 (1 screw).
- 2. Remove the inner front cover, PL 28.10 Item 10 (3 screws).
- 3. Release the front door interlock switch, Figure 1.



W-1-1067-A

Figure 1 Switch release

4. Remove the front door interlock switch, Figure 2.



W-1-1068-A

Figure 2 Switch removal

Replacement

The replacement is the reverse of the removal procedure.

REP 1.9 Left Door Interlock Removal (W/O TAG 015)

Parts List on PL 1.12

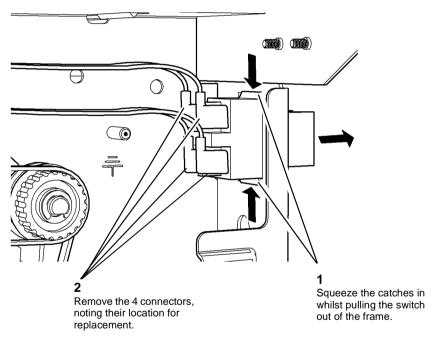
Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the rear cover, REP 28.2.
- Open the left door.
- 3. Remove the left door interlock switch, Figure 1.

NOTE: It may be necessary to cut some tie-wraps on the switch harness to provide enough slack to remove the switch.



W-1-1248-A

Figure 1 Switch removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Install new tie-wraps to replace any removed during this procedure.

REP 1.10 HVPS Removal

Parts List on PL 1.10

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



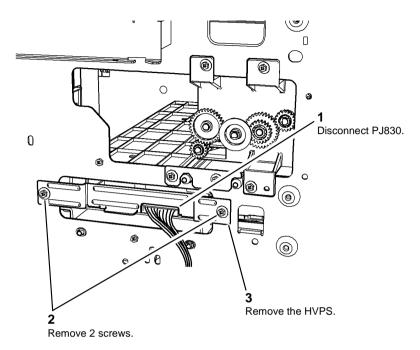
Figure 1 ESD Symbol



Observe ESD procedures during this procedure.

- 1. Switch off the machine, GP 14. Disconnect the main power cord.
- 2. Disconnect the power cord and communication harness to the output device, if installed.
- 3. Remove the rear cover, REP 28.2.

4. Remove the HVPS, Figure 2.

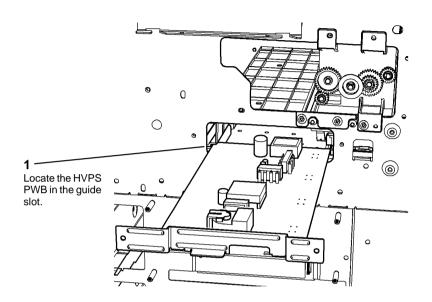


W-1-1254-A

Figure 2 HVPS removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Align the left side of the HVPS PWB into the guide slot then push the HVPS into the machine, Figure 3.



2 Slide in the HVPS.

W-1-1255-A

Figure 3 HVPS replacement

REP 1.11 Molex Mini-Fit Junior Connectors

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the terminal from the housing, using the Molex, Mini-Fit extractor tool, Figure 1.

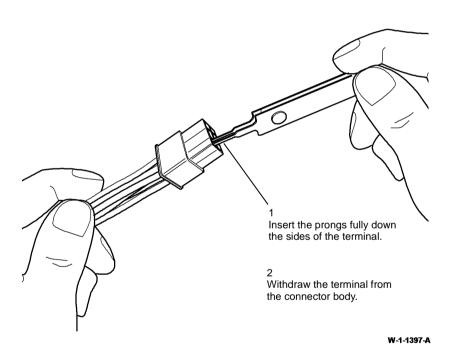


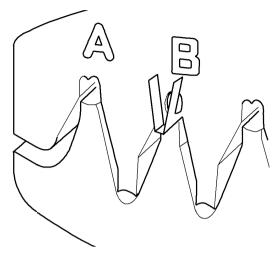
Figure 1 Removing the terminal

2. Cut off the damaged terminal, then strip 4mm of insulation from the end of the wire.

Replacement

Select the correct terminal type.

2. Insert the terminal into the appropriate position of the crimp tool and close the tool just enough to hold the terminal, Figure 2.



W-1-1398-A

Figure 2 Crimping the terminal

- Insert the wire fully into the terminal so that the stripped portion is within the inner grip of the terminal. Close the crimp tool fully to make the crimp.
- 4. Insert the crimped terminal into the appropriate position of the crimp tool and close the crimp tool to fasten the wire insulation in the outer grip of the terminal, Figure 3.

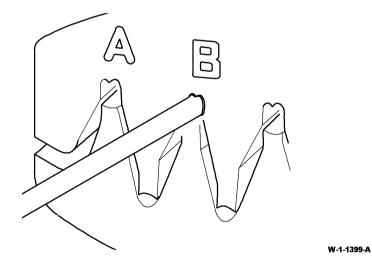


Figure 3 Crimping the insulation grip

5. Check that the crimp is correctly made, Figure 4.

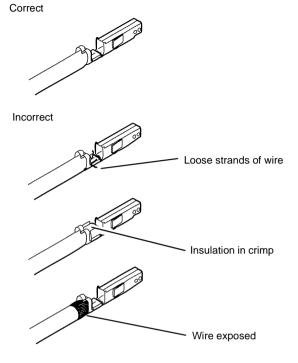


Figure 4 Inspecting the finished crimp

6. Insert the replacement terminal into the connector housing.

REP 1.12 Front Door Interlock Removal (W/TAG 015)

Parts List on PL 1.12

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the latch, PL 60.35 Item 2 (1 screw).
- 2. Remove the inner front cover, PL 28.10 Item 10 (3 screws).
- 3. Disconnect the front door interlock switch, Figure 1.

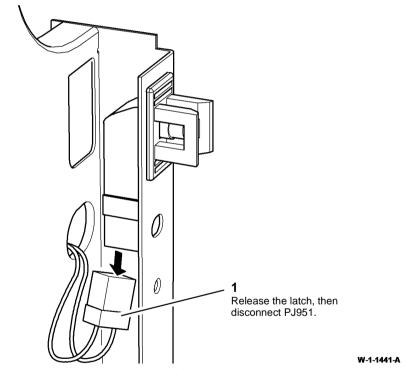


Figure 1 Switch connection

W-1-1400-A

4. Remove the front door interlock switch, Figure 2.

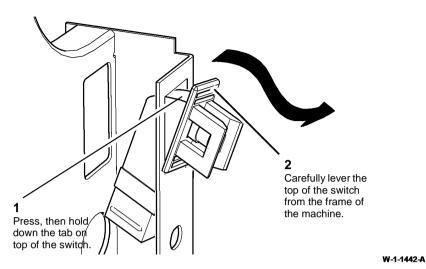


Figure 2 Switch removal

Replacement

The replacement is the reverse of the removal procedure.

• Engage the bottom of the switch with the machine frame (Figure 2), then pivot the switch backwards until it locks into position.

REP 1.13 Left Door Interlock Removal (W/TAG 015)

Parts List on PL 1.12

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the rear cover, REP 28.2.
- 2. Open the left door.

NOTE: It may be necessary to cut some tie-wraps on the switch harness to provide enough slack to remove the switch.

3. Disconnect the left door interlock switch, Figure 1.

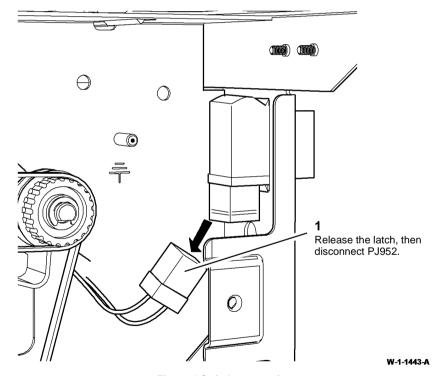


Figure 1 Switch connection

4. Remove the left door interlock switch, Figure 2.

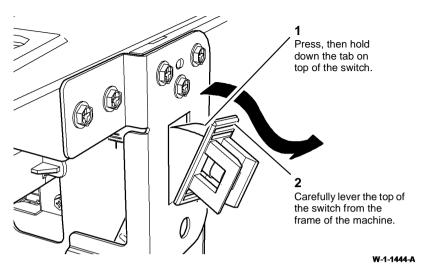


Figure 2 Switch removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Engage the bottom of the switch with the machine frame (Figure 2), then pivot the switch backwards until it locks into position.
- 3. Install new tie-wraps to replace any removed during this procedure.

REP 2.1 User Interface Assembly

Parts List on PL 2.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

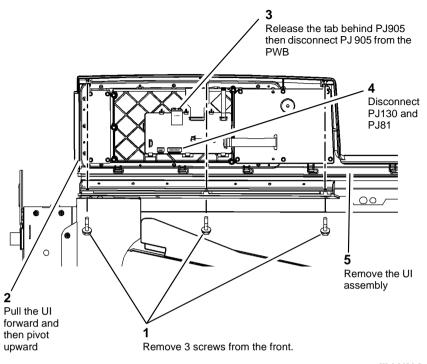


Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the user interface assembly.

- 1. Open the front door assembly, PL 28.11 Item 1.
- 2. Remove the left frame cover REP 28.1.
- 3. Remove the UI assembly, Figure 2.



W-1-0181-A

Figure 2 UI assembly removal

Replacement

- The replacement is the reverse of the removal procedure. Refer to GP 6 before the screws are installed.
- If prompted, reload the software, GP 4. The software will automatically upgrade or downgrade when the machine is switched on, GP 14.

REP 2.2 UI Touch Screen

Parts List on PL 2.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the user interface touch screen PWB.

- 1. Remove the UI control PWB, REP 2.3.
- 2. Remove the UI screen clamp, PL 2.10 Item 2.
- 3. Remove the UI touch screen, PL 2.10 Item 4.

Replacement

The replacement is the reverse of the removal procedure. Refer to GP 6 before the screws are installed.

REP 2.3 UI Control PWB

Parts List on PL 2.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the user interface control PWB.

- 1. Remove the UI assembly, REP 2.1
- 2. Place the UI assembly on a flat surface.



The cable clamps are very fragile and only need to be moved slightly to release the ribbon cables.

3. Disconnect PJ907, PJ908, PJ909 and PJ943 by pulling the clamp away from each connector. Disconnect PJ945 by lifting the clamp. Refer to Figure 2.

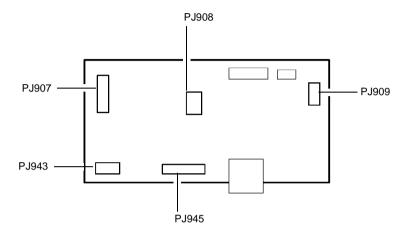
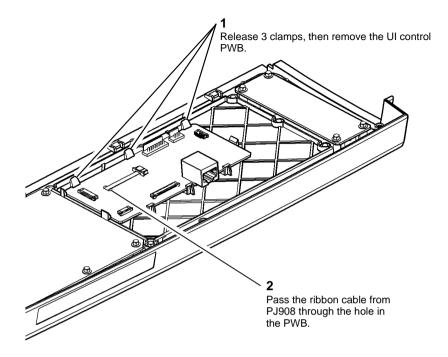


Figure 2 UI control PWB

4. Remove the UI control PWB, Figure 3.



W-1-0183-A

Figure 3 UI control PWB removal

Replacement

W-1-0182-A

- The replacement is the reverse of the removal procedure. Refer to GP 6 before the screws are installed.
- 2. Ensure the ribbon cable to PJ908 is routed through the hole in the PWB.
- 3. The ribbon cable to PJ907 is positioned over the cable clamp, all other ribbon cables are positioned under the cable clamps.

REP 3.1 IOT PWB

Parts List on PL 1.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the IOT PWB.



Take care if a new IOT PWB, scanner PWB or hard disk is to be installed. Ensure that any combination of these components are replaced one at a time and that the machine is switched off then on (GP 14) between each installation of a PWB or the hard disk. Failure to do so will cause corruption of the machine's NVM configuration data and render the machine inoperable. Refer to GP 27 Machine Configuration Control and Recovery.

- 1. Remove the rear cover, REP 28.2.
- 2. Disconnect the PJs from the IOT PWB.
- 3. Remove the IOT PWB (8 screws).

Replacement

Perform the steps that follow:

NOTE: If the original IOT PWB has been re-installed, do not perform steps 2, 3 and 4.

- 1. Replacement is the reverse of the removal procedure.
 - **NOTE:** PJ's 758, 778 and 780 are not connected. PJ775 will only be connected if tray 4 is installed.
- 2. If necessary, reload the software, GP 4. The machine will automatically upgrade or downgrade the software when the machine is switched on.

NOTE: After the software reload has been completed, the machine resets and gives a message 'Restoring Configuration Settings'. Do not switch off the machine or intervene during this NVM transformation process.

- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.
- If necessary, perform an NVM restore, dC361.

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the hard disk drive.



CAUTION

Take care if a new IOT PWB, scanner PWB or hard disk is to be installed. Ensure that any combination of these components are replaced one at a time and that the machine is switched off then on (GP 14) between each installation of a PWB or the hard disk. Failure to do so will cause corruption of the machine's NVM configuration data and render the machine inoperable. Refer to GP 27 Machine Configuration Control and Recovery.

- Remove the rear cover. REP 28.2. 1.
- Remove the SBC cover, PL 3.22 Item 9.
- Disconnect the HDD cable, PL 3.22 Item 4 from the hard disk.
- Remove the hard disk drive, PL 3.22 Item 2.

Replacement

- 1. Replacement is the reverse of the removal procedure.
- Perform an AltBoot, GP 4.
- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.
- Check the usage counters on the UI, Machine Status / Billing Information.

5. If the counters have reset, refer to GP 41 Reporting Usage Counter Resets.

REP 3.3 Single Board Controller PWB

Parts List on PL 3.22

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the SBC PWB.

- Remove the rear cover, REP 28.2.
- 2. Remove the SBC cover, PL 3.22 Item 9.
- 3. If installed, remove the fax module, PL 20.05 Item 1.
- 4. Remove the fax module support, Figure 2.

NOTE: If a foreign device interface is installed, carefully pull the FDI ribbon cable away from the fax module support before removing the fax module support.

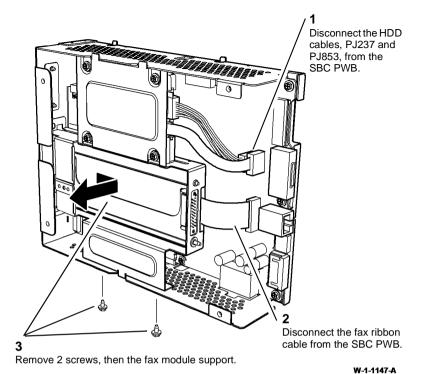


Figure 2 Fax module support removal

- 5. Remove the components that follow from the SBC PWB:
 - SD card, PL 3.22 Item 6.
 - SIM card, PL 3.22 Item 5.
 - If installed, the foreign interface PWB. Refer to REP 3.5.

NOTE: The FDI ribbon cable should be disconnected from the FDI PWB before the FDI PWB is removed.

If installed, the wireless network adaptor, PL 3.22 Item 20.



Disconnect PJ851 and PJ880 by carefully releasing the clamps. The cable clamps are very fragile and only need to be moved slightly to release the ribbon cables.

- 6. Disconnect the PJs from the SBC PWB.
- 7. Remove the single board controller PWB, PL 3.22 Item 3 (8 screws).

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Perform an AltBoot, GP 4.
- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol

- 1. Remove the rear cover, REP 28.2.
- 2. Remove the SD card, PL 3.22 Item 6 from the SBC PWB.

Replacement

- 1. Replacement is the reverse of the removal procedure.
- Reload the software. GP 4.
- 3. Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.
- 4. Check the usage counters on the UI, Machine Status / Billing Information.
- 5. If the counters have reset, refer to GP 41 Reporting Usage Counter Resets.

REP 3.5 Foreign Device Interface PWB and Ribbon Cable Parts List on PL 3.22

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the foreign device interface PWB.

- 1. Remove the rear cover, REP 28.2.
- Remove the SBC cover, PL 3.22 Item 9.
- 3. Remove the FDI ribbon cable from the SBC cage, Figure 2.

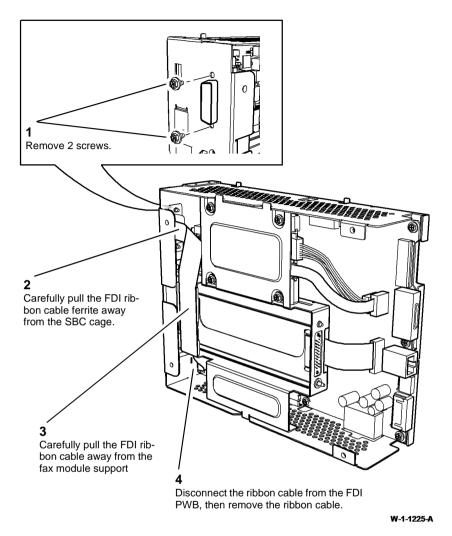


Figure 2 FDI ribbon cable

4. Remove the fax module support, Figure 3.

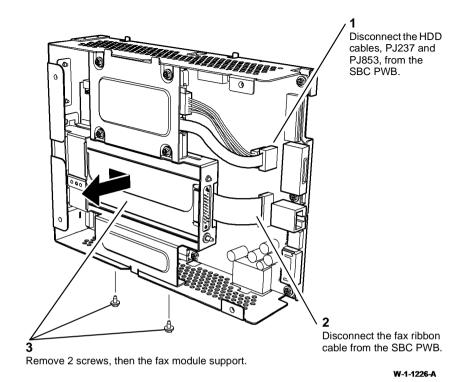


Figure 3 Fax module support removal

5. Remove the FDI PWB, PL 3.22 Item 18.

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Reload the software, GP 4.
- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.

REP 3.6 Single Board Controller Module

Parts List on PL 3.22

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Figure 1 ESD Symbol



Ensure that E.S.D. procedures are observed during the removal and installation of the SBC module.

- Remove the rear cover. REP 28.2.
- 2. Remove the SIM card, PL 3.22 Item 5 from the SBC PWB.



Do not disconnect the ribbon cable, PJ851, at this time.

3. Prepare to remove the SBC module, Figure 2.

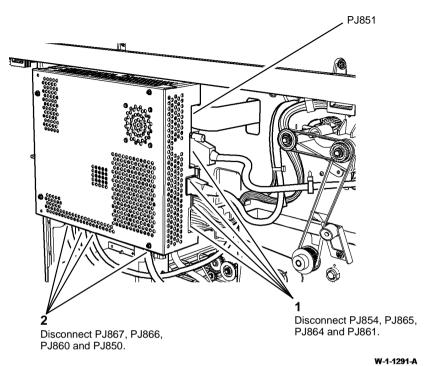


Figure 2 Preparation

4. Remove the SBC cover, PL 3.22 Item 9.



Disconnect PJ851 by carefully releasing the clamp. The cable clamp is very fragile and only needs to be moved slightly to release the ribbon cable.

5. Disconnect PJ851, Figure 3.

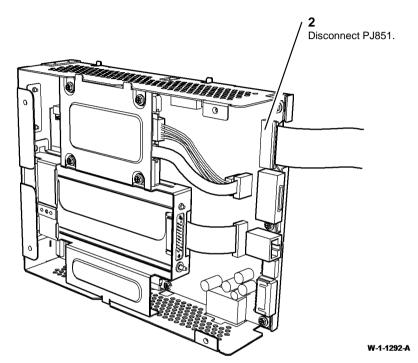


Figure 3 Disconnect PJ851

6. Remove the SBC PWB module, Figure 4.

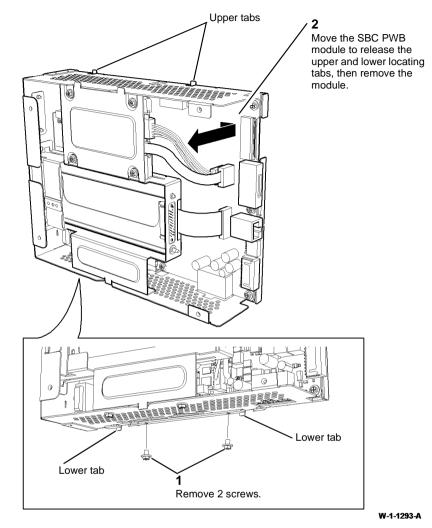


Figure 4 Removal

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Perform an AltBoot, GP 4.
- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.
- 4. Re-install the SIM card.

REP 5.1 Top Cover Assembly

Parts List on PL 5.20 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 15.
- 2. Remove 5 screws then remove the rear cover, PL 5.10 Item 1.
- 3. Prepare to remove the top cover assembly, Figure 1.

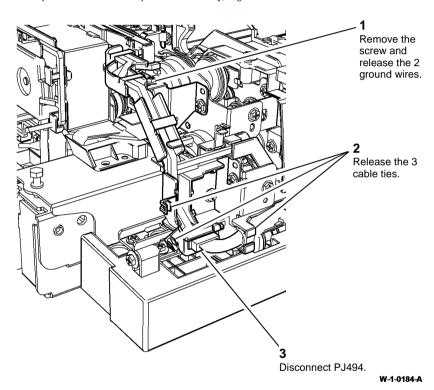


Figure 1 Preparation

4. Release the front hinge, Figure 2.

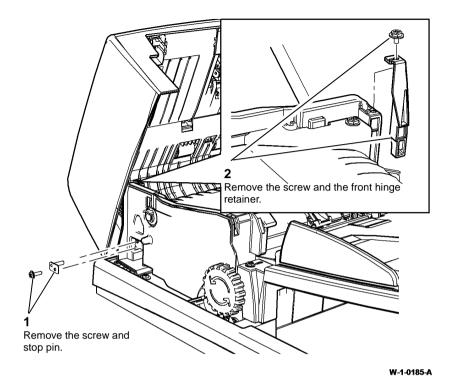
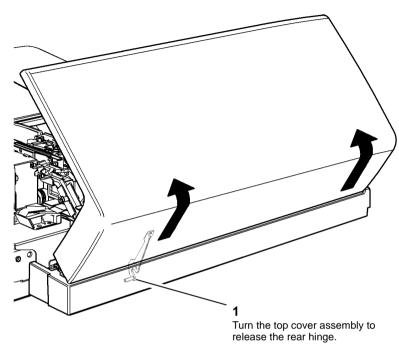


Figure 2 Front hinge release

5. Remove the top cover assembly, Figure 3.



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Figure 3 Top cover assembly

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

- 1. The replacement is the reverse of the removal procedure.
- Perform ADJ 5.3 SPDH Skew.

REP 5.2 Feed Roll, Nudger Roll and Feed Assembly

Parts List on PL 5.20

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 15.
- 2. Pull open the lower cover PL 5.20 Item 13.
- 3. Remove the feed and nudger rolls, Figure 1.

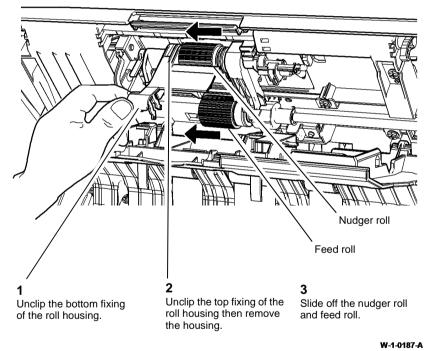


Figure 1 Feed and Nudger roll removal

4. Remove the top cover assembly, REP 5.1.

5. Remove the feed assembly, Figure 2.

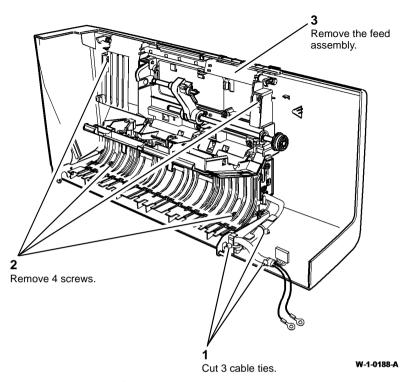


Figure 2 Feed assembly removal

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

The replacement is the reverse of the removal procedure.

- If either the feed or nudger roll are defective, it is imperative that new feed roll, nudger roll and retard rolls are all installed as a complete new set, Refer to REP 5.3 Retard Roll and Separation Assembly.
- If new feed, nudger and retard rolls are installed, reset the document feeder feed roller count. Refer to dC135 CRU/HFSI Status.
- 3. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 5.3 Retard Roll and Separation Assembly

Parts List on PL 5.25

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 15.
- 2. Pull open the retard roll cover, PL 5.25 Item 2.
- 3. Remove the retard roll, Figure 1.

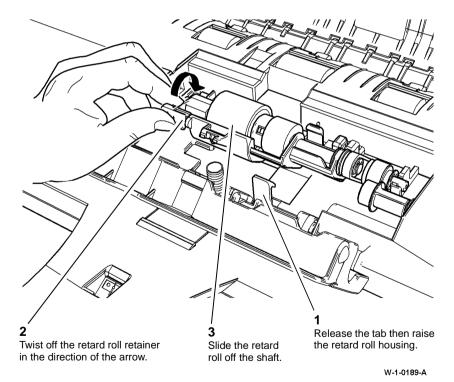


Figure 1 Retard roll removal

4. Remove the separation assembly, Figure 2.

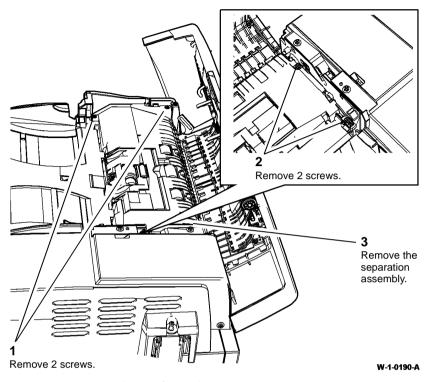


Figure 2 Separation assembly removal

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

The replacement is the reverse of the removal procedure.

- If either the feed or nudger roll are defective, it is imperative that new feed roll, nudger roll and retard rolls are all installed as a complete new set.
- If new feed, nudger and retard rolls are installed, reset the document feeder feed roller count. Refer to dC135 CRU/HFSI Status.

REP 5.4 Input Tray Assembly

Parts List on PL 5.30 Removal



WARNING

Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove 5 screws then remove the rear cover, PL 5.10 Item 1.
- 2. Prepare to remove the input tray upper assembly, Figure 1.

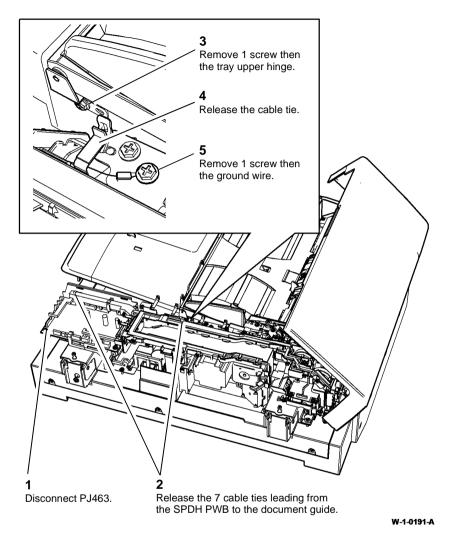


Figure 1 Preparation

3. Remove the input tray upper assembly, Figure 2.

NOTE: Machines W/OTAG D-003 will have two ground wires.

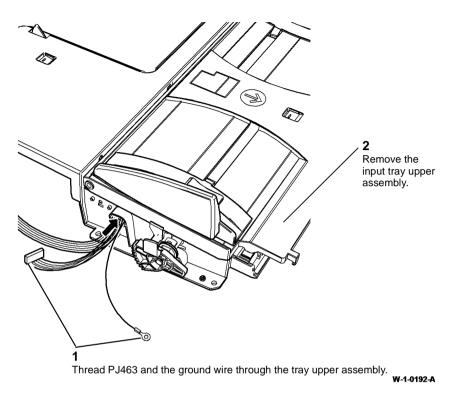


Figure 2 Upper assembly removal

4. Prepare to remove the input tray lower assembly, Figure 3.

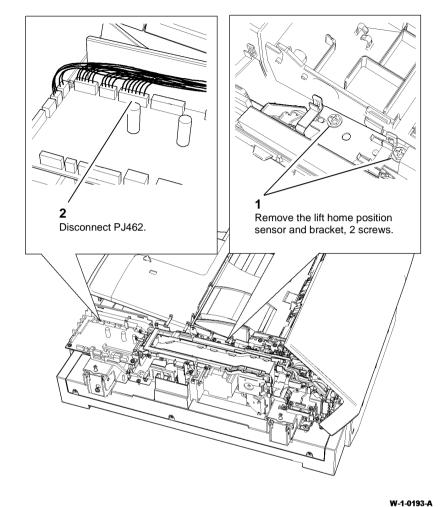


Figure 3 Preparation

5. Remove the input tray lower assembly, Figure 4.

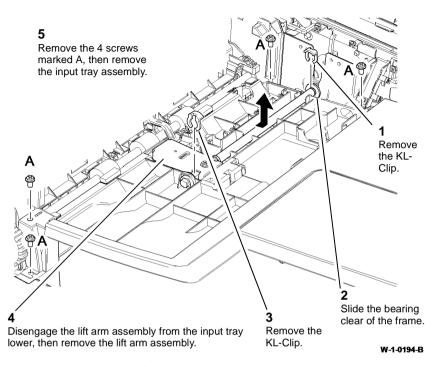


Figure 4 Input tray lower removal

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

1. The replacement is the reverse of the removal procedure.

2. Ensure that the ground spring is correctly positioned on the elevator shaft and under the elevator arm, Figure 5.

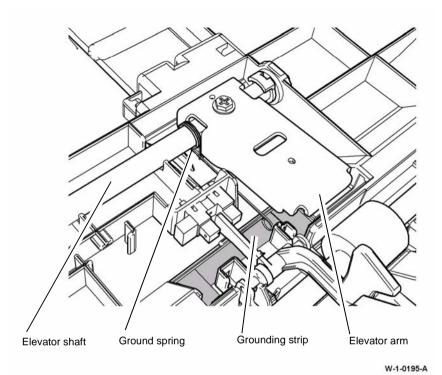


Figure 5 Ground spring position

3. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 5.5 Takeaway Roll Assembly

Parts List on PL 5.17

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



The working area is restrictive, take care not to drop any components. Extensive repair procedures may be required to retrieve fallen parts from within the SPDH.

- 1. Remove the separation assembly, REP 5.3.
- 2. Remove 5 screws then remove the rear cover, PL 5.10 Item 1.

3. Remove the takeaway roll assembly, Figure 1.

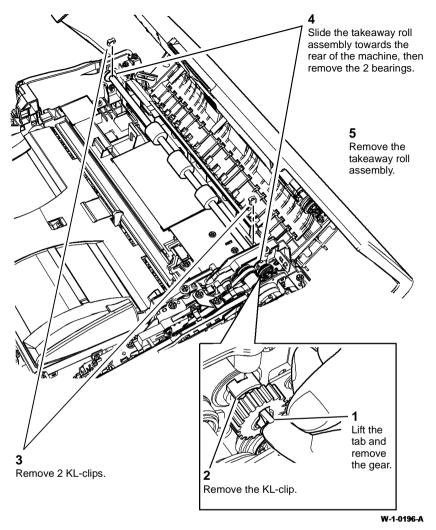


Figure 1 Takeaway roll removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.6 Lower Pre Scan Roller Assembly

Parts List on PL 5.17

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

Removal



Handle the lower pre scan assembly with care. The lower pre scan assembly is loosely assembled and contains 2 springs under compression. The assembly can spring apart on removal.

1. Remove the lower pre scan roller assembly, Figure 1.

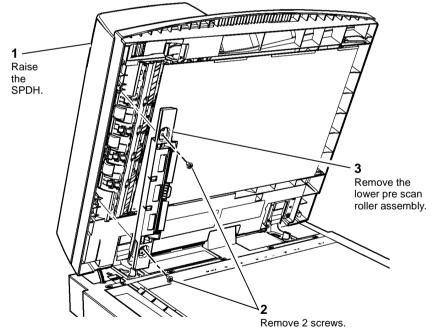


Figure 1 Lower Pre scan roller assembly

Replacement

The replacement is the reverse of the removal procedure.

Parts List on PL 5.17 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the SPDH read assembly outer frame, by performing REP 5.25 up to step 2.
- 2. Remove the front components, Figure 1.

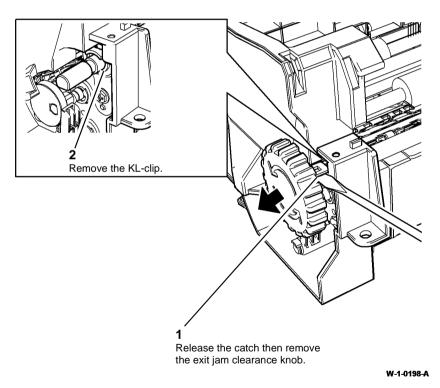


Figure 1 Front components removal

3. Prepare to remove the exit roll assembly, Figure 2.

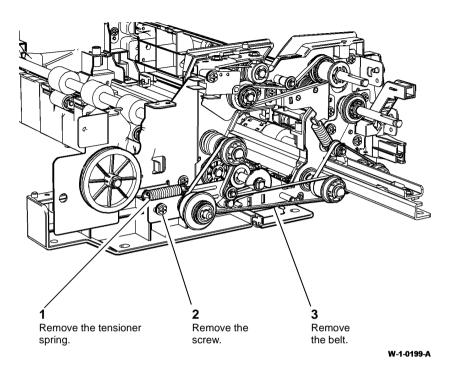
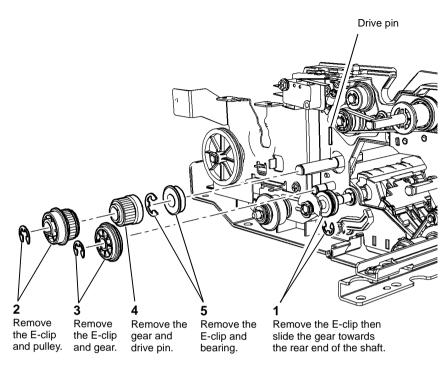


Figure 2 Preparation

4. Remove the rear components, Figure 3.



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Figure 3 Rear components removal

5. Remove the exit roll assembly, Figure 4.

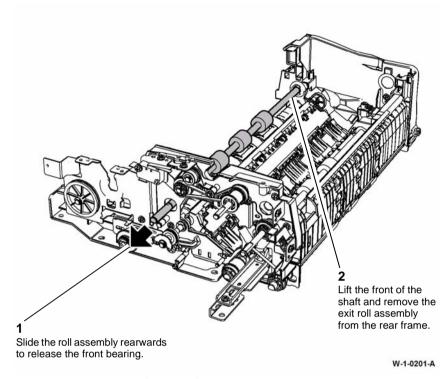


Figure 4 Exit roll assembly removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 5.8 Stack Height Sensor, Takeaway Sensor and Feed Sensor

Parts List on PL 5.20 Removal

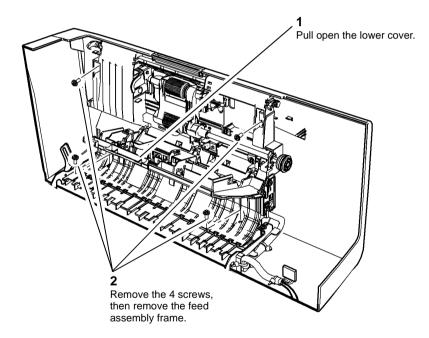


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 1.
- 2. Remove the feed assembly frame, Figure 1.



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Figure 1 Frame removal

3. Remove the appropriate sensor, Figure 2.

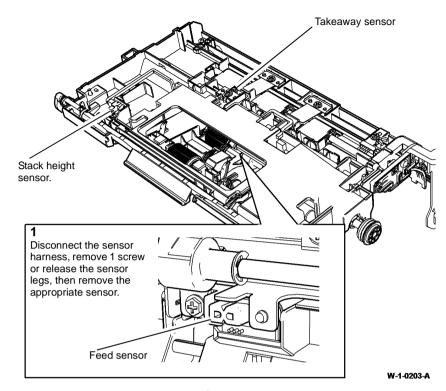


Figure 2 Sensor removal

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the feed assembly frame is located correctly within the top cover before tightening the 4 screws.

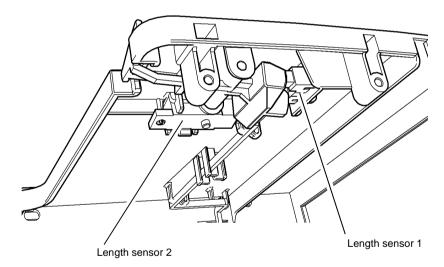


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the input tray lower cover, 2 screws, PL 5.30 Item 4.
- 2. Remove the appropriate length sensor, Figure 1.

NOTE: Machines W/TAG D-003 do not have a ground wire connected to a grounding strip, adjacent to length sensor 2.

1 Disconnect the PJ, then remove the appropriate sensor.



NOTE: Removal of the sensor flag will improve access to length sensor 1.

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Figure 1 Length sensors removal

Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

The replacement is the reverse of the removal procedure.

REP 5.10 SPDH Reg Sensor

Parts List on PL 5.18 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the side 2 scan assembly, REP 60.6.
- 2. Prepare to remove the SPDH reg sensor, Figure 1.

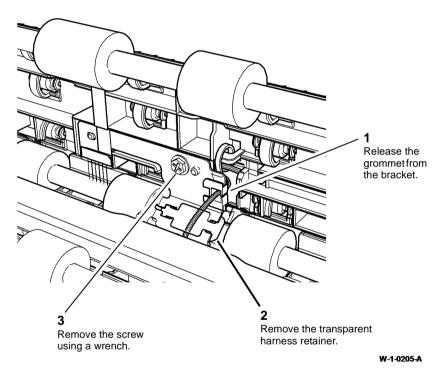


Figure 1 Preparation

3. Remove the SPDH reg sensor and bracket assembly, Figure 2.

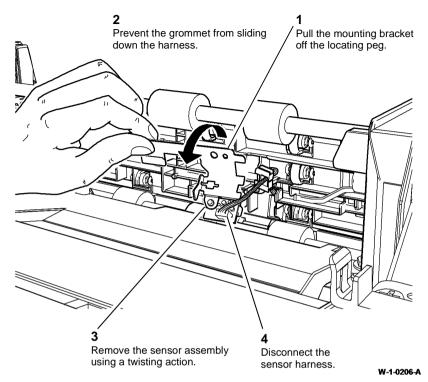
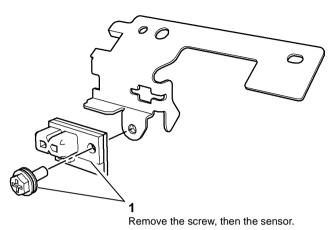


Figure 2 Sensor assembly removal

4. Remove the sensor from the bracket, Figure 3.



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Figure 3 Sensor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.11 Calibration Home Position Sensor

Parts List on PL 5.18

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the LED cooling fan, REP 5.21.
- 2. If necessary rotate the exit jam clearance knob, PL 5.17 Item 5, so that the flag is not within the gap of the sensor.
- 3. Remove the calibration home position sensor, Figure 1.

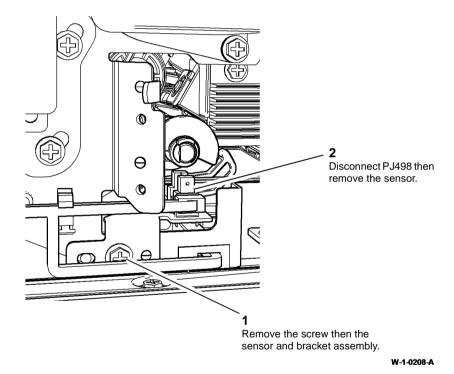


Figure 1 Sensor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.12 Feed Motor and Belt

Parts List on PL 5.18 and PL 5.19

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.

WARNING

Take care during this procedure. Sharp edges may be present that can cause injury.



Be careful when self tapping screws are installed into plastic components, refer to GP 6.



The working area is restrictive, take care not to drop any components. Extensive repair procedures may be required to retrieve fallen parts from within the SPDH.

1. Remove 5 screws then the rear cover, PL 5.10 Item 1.

2. Remove the feed motor, Figure 1.

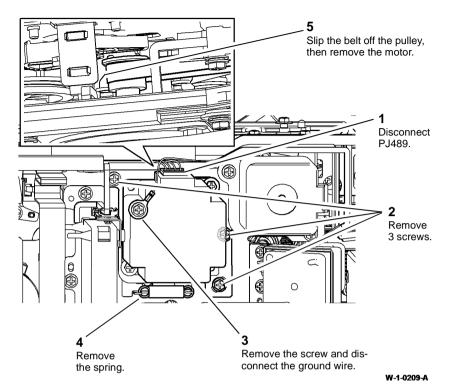
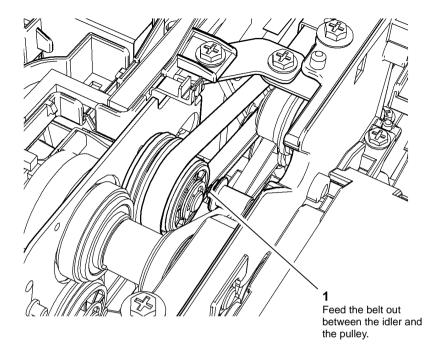


Figure 1 Feed motor removal

3. Remove the feed motor belt, Figure 2.



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Figure 2 Feed motor belt removal

Replacement

NOTE: Temporary removal of the top cover interlock switch, PL 5.10 Item 13 with mounting bracket, PL 5.10 Item 14 and the lift home position sensor, PL 5.18 Item 9 with sensor bracket, PL 5.18 Item 10, will provide improved access during the installation of the motor drive belt.

The replacement is the reverse of the removal procedure.

- Position the motor in the loop of the drive belt.
- 2. Insert, but do not tighten the 3 screws.
- 3. Attach the spring to correctly tension the drive belt, then tighten the 3 screws.

REP 5.13 Read Motor

Parts List on PL 5.18

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Be careful when self tapping screws are installed into plastic components, refer to GP 6.



The working area is restrictive, take care not to drop any components. Extensive repair procedures may be required to retrieve fallen parts from within the SPDH.

- 1. Remove 5 screws then the rear cover, PL 5.10 Item 1.
- 2. Remove the read motor, Figure 1.

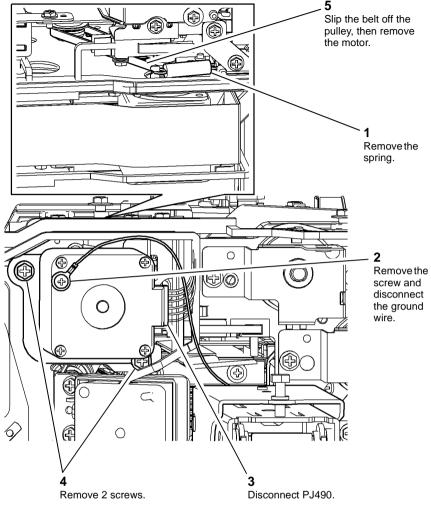


Figure 1 Read motor removal

Replacement

NOTE: Temporary removal of the top cover interlock switch, PL 5.10 Item 13 with mounting bracket, PL 5.10 Item 14 and the lift home position sensor, PL 5.18 Item 9 with sensor bracket, PL 5.18 Item 10, will provide improved access during the installation of the motor and tension spring.

- Position the motor in the loop of the drive belt.
- 2. Insert but do not tighten the 2 screws.
- 3. Attach the spring to correctly tension the drive belt, then tighten the 2 screws.
- The remainder of the replacement is the reverse of the removal procedure.

REP 5.14 Feed Clutch

Parts List on PL 5.18 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 15.
- 2. Remove 5 screws then the rear cover, PL 5.10 Item 1.

3. Prepare to remove the feed clutch, Figure 1.

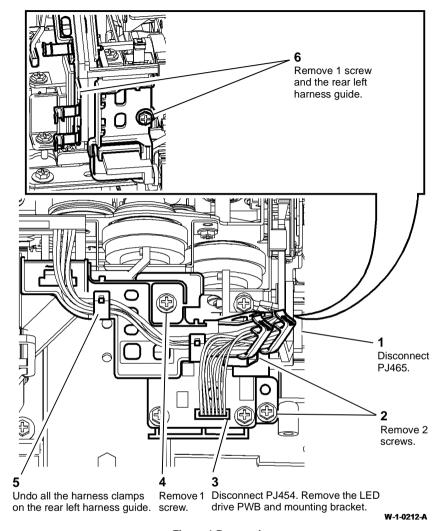


Figure 1 Preparation

4. Remove the feed clutch, Figure 2.

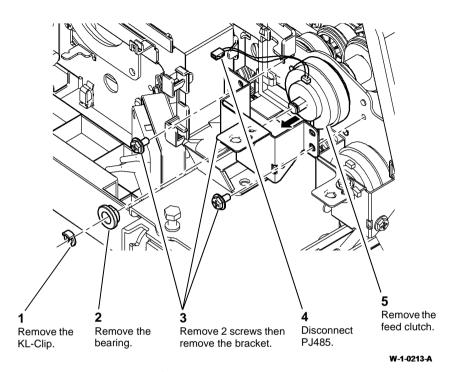
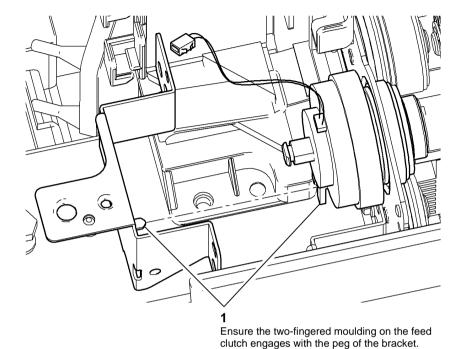


Figure 2 Feed clutch removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the feed clutch engages correctly with the bracket, Figure 3.



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Figure 3 Clutch locator

REP 5.15 Takeaway Clutch

Parts List on PL 5.18

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the SPDH top cover assembly, PL 5.20 Item 15.
- 2. Remove 5 screws then the rear cover, PL 5.10 Item 1.

3. Prepare to remove the takeaway clutch, Figure 1.

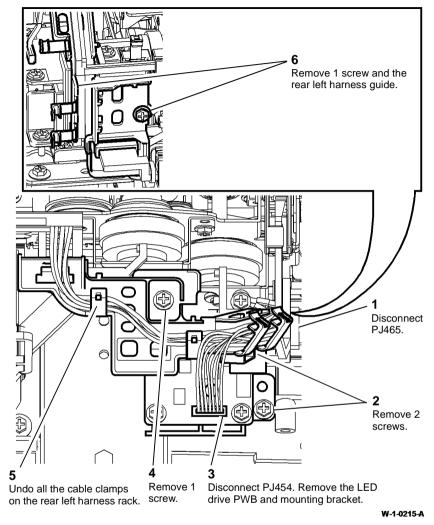


Figure 1 Preparation

4. Remove the Takeaway clutch, Figure 2.

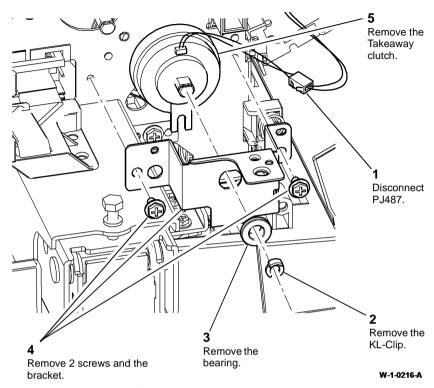
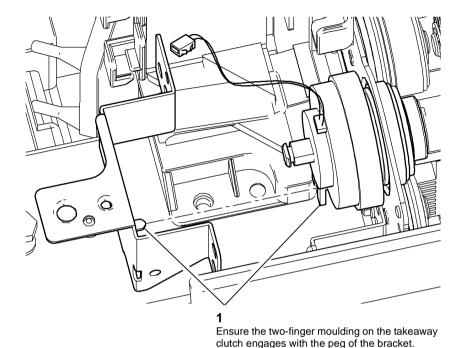


Figure 2 Takeaway clutch removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the takeaway clutch engages correctly with the bracket, Figure 3.



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Figure 3 Clutch locator

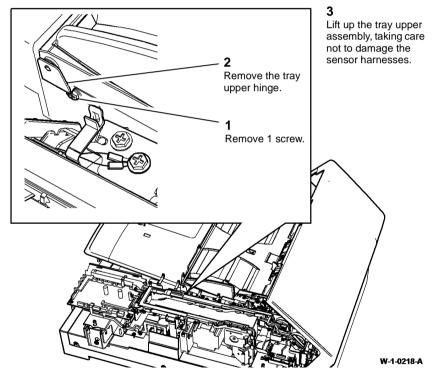
REP 5.16 Input Tray Sensors and Doc Present Sensor Actuator

Parts List on PL 5.30 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove 5 screws then the rear cover, PL 5.10 Item 1.
- 2. Remove the tray upper hinge, Figure 1.



3. Release the sensor mounting plate, Figure 2.

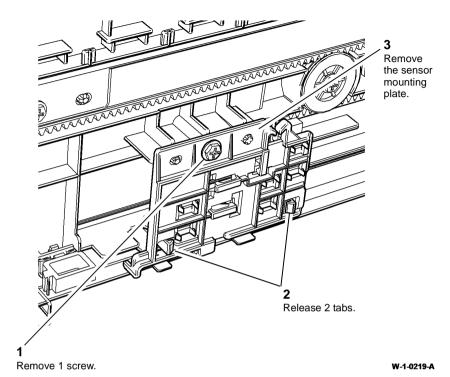


Figure 2 Mounting plate release

4. Remove the document width sensors, Figure 3.

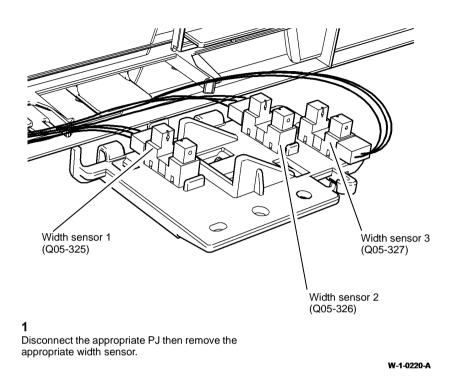
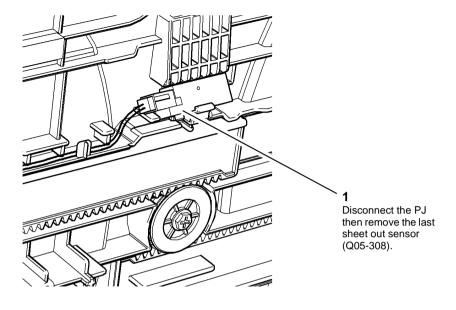
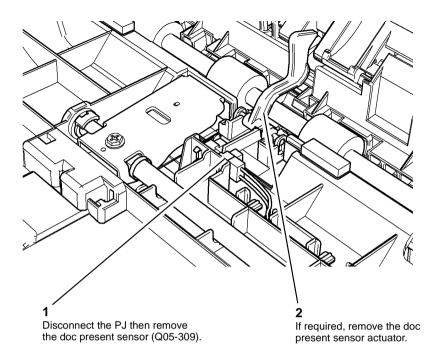


Figure 3 Width sensors removal

5. Remove the last sheet out sensor, Figure 4.



6. Remove the doc present sensor, Figure 5.



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Figure 4 Last sheet out sensor removal

Figure 5 Doc present sensor removal

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Replacement



Be careful when self tapping screws are installed into plastic components, refer to GP 6.

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the actuator spring is positioned correctly, Figure 6.

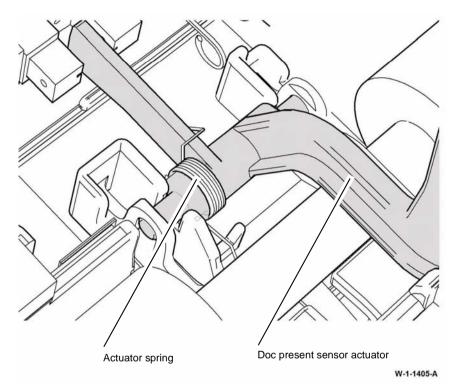


Figure 6 Spring position

REP 5.17 Pre Scan Roll Assembly

Parts List on PL 5.17

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the SPDH read assembly outer frame, by performing REP 5.25 up to step 2.
- 2. Place the SPDH read assembly upside down on a work surface.



The mid scan and pre scan document guides are spring loaded, take care to not lose the springs when the guides are opened.

3. Prepare to remove the mid scan document guide, Figure 1.

4. Remove 4 springs, Figure 2.

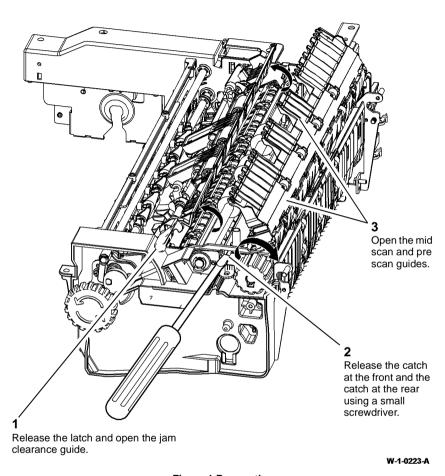
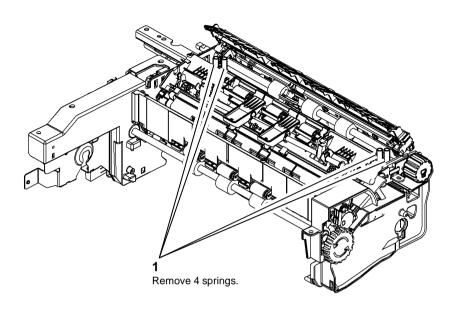


Figure 1 Preparation



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Figure 2 Springs removal

- 5. Remove the mid scan document guide and pre scan clearance knob, Figure 3.
- 6. Remove the pre scan document guide, Figure 4.

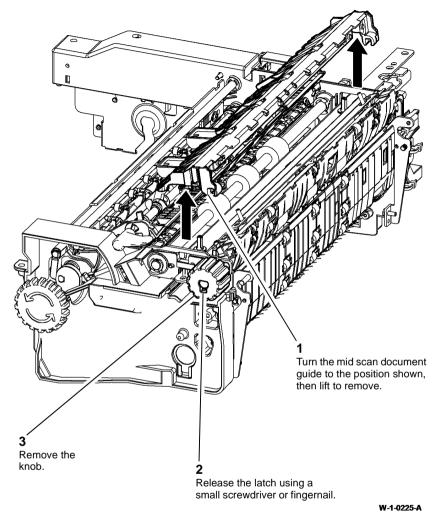


Figure 3 Guide and knob removal

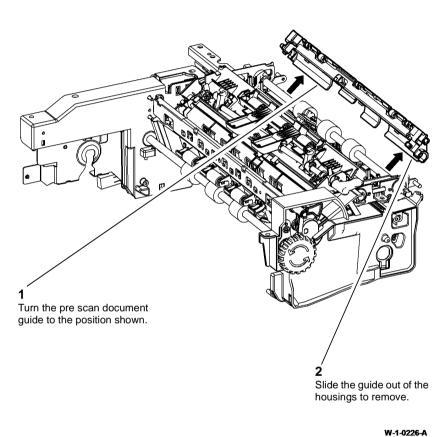


Figure 4 Pre scan guide removal

7. Prepare to remove the pre scan roll assembly, Figure 5.

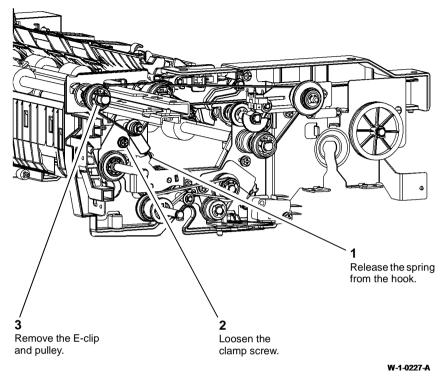


Figure 5 Preparation

8. Remove the pre scan roll assembly, Figure 6.

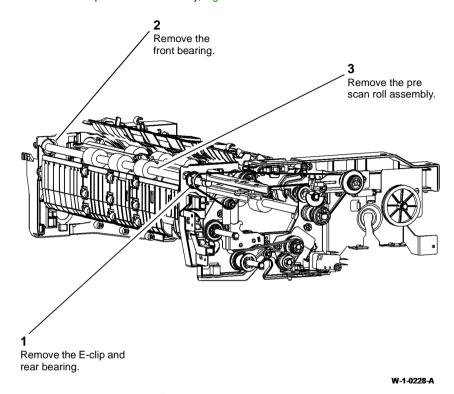


Figure 6 Pre scan roll removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

Parts List on PL 5.17

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- Remove the SPDH read assembly outer frame, by performing REP 5.25 up to step 2.
- 2. Place the SPDH read assembly upside down on a work surface.



The mid scan and pre scan document guides are spring loaded, take care to not lose the springs when the guides are opened.

3. Open the mid scan document guide and pre scan document guide, Figure 1.

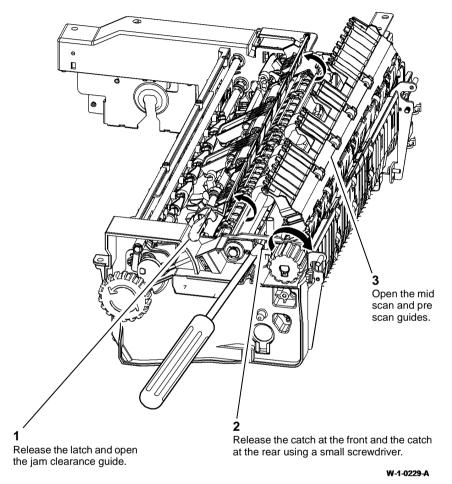


Figure 1 Guides opening

- 4. Release the belt tension in the 2 drive belts, Figure 2.
- Release the spring from the hook. Loosen the clamp screw. Loosen the clamp screw. Release the spring from the hook.

Figure 2 Belt tensions release

5. Remove the mid scan roll assembly, Figure 3.

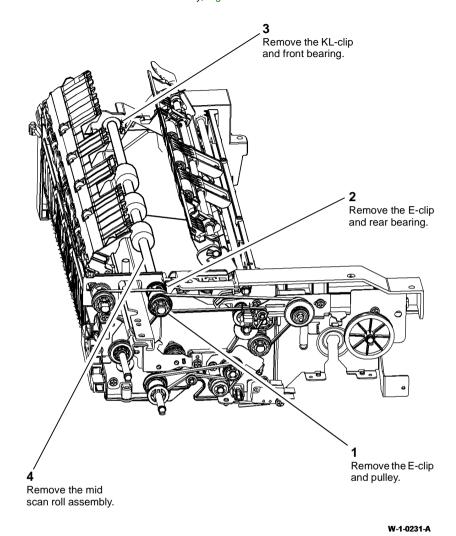


Figure 3 Mid scan roll removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

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REP 5.19 SPDH Removal

Parts List on PL 5.10

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the scanner rear cover and faraday shield, REP 60.1.
- 2. Disconnect the communication and power cables, Figure 1.

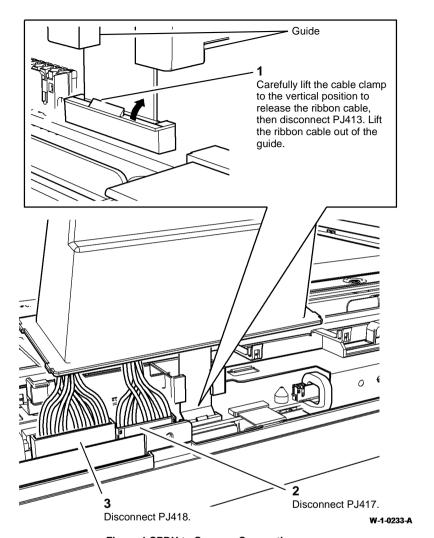


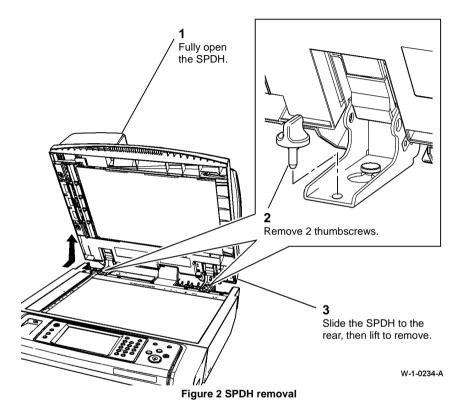
Figure 1 SPDH to Scanner Connections



Use safe handling procedures when removing the module, GP 16. The module is heavy.

NOTE: The SPDH weight is 11.5Kg (25.4lb).

3. Remove the SPDH from the rear of the machine, Figure 2.



4. If necessary remove the SPDH harness guide, Figure 3.

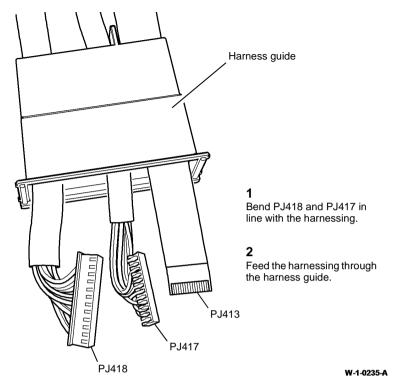


Figure 3 Harness guide removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the thumb screws are secure and fully tightened.
- 3. If a new SPDH is installed, perform the steps that follow:
 - a. Select dC131 location 606-482. Reset the copy count to zero.
 - Reset the document feeder feed roller count. Refer to dC135 CRU/HFSI Status.
 - c. ADJ 5.2 SPDH Height.
 - d. ADJ 5.3 SPDH Skew.
- 4. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 5.20 Motor Cooling Fan

Parts List on PL 5.18 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove 5 screws then the rear cover, PL 5.10 Item 1.
- Disconnect PJ470 on the SPDH PWB. 2.
- Release the 5 cable ties leading to the motor cooling fan from the SPDH PWB.
- Remove the motor cooling fan, Figure 1.

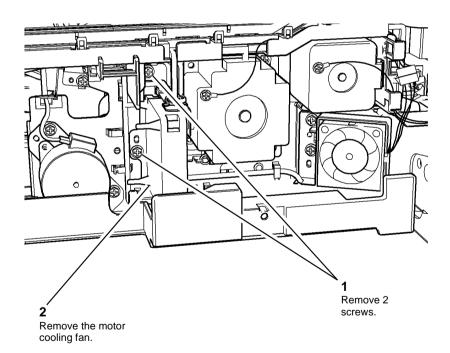


Figure 1 Motor cooling fan removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.21 LED Cooling Fan

Parts List on PL 5.18

Removal

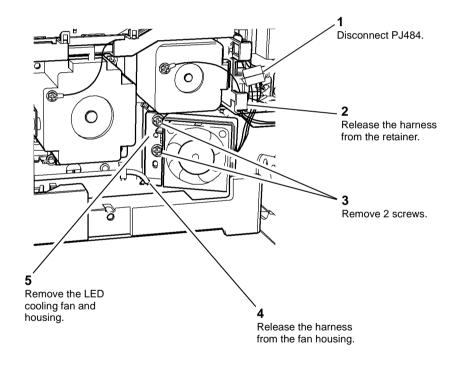


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove 5 screws then the rear cover, PL 5.10 Item 1.
- Remove the LED cooling fan, Figure 1.



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Figure 1 LED Cooling fan removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.22 Side 2 Scan Power and Data Ribbon Cables

Parts List on PL 5.10

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the scanner rear cover and faraday shield, REP 60.1.
- 2. Refer to REP 5.19. Disconnect PJ413 only, by following step 1 in figure 1.
- 3. Remove 5 screws, then remove the rear cover, PL 5.10 Item 1.
- 4. Refer to REP 5.3. Remove separation assembly. Do not remove the retard roll.
- Refer to REP 60.6. Disconnect the ribbon cables from PJ451 and PJ452. Do not disconnect PJ456. Do not remove the side 2 scanner
- Prepare to remove the side 2 scan assembly data ribbon cable and power ribbon cable, Figure 1.

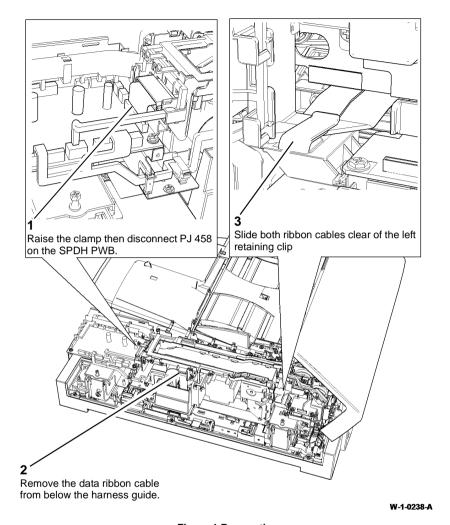


Figure 1 Preparation

7. Remove the side 2 scan assembly data ribbon cable and power ribbon cable, Figure 2.

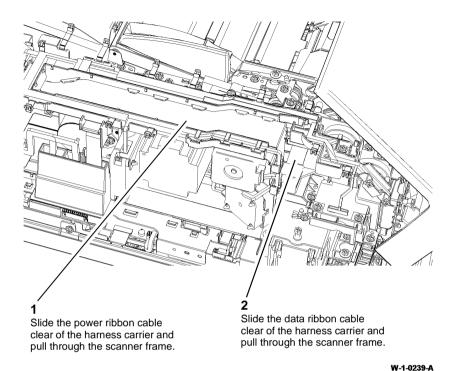


Figure 2 Ribbon cable removal

Replacement

1. New ribbon cable are supplied pre-folded, refer to Figure 3.

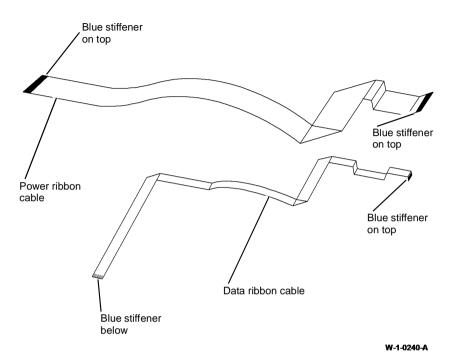


Figure 3 Ribbon cable folds

2. Install the data ribbon cable on the harness carrier, Figure 4, Figure 5 and Figure 6.

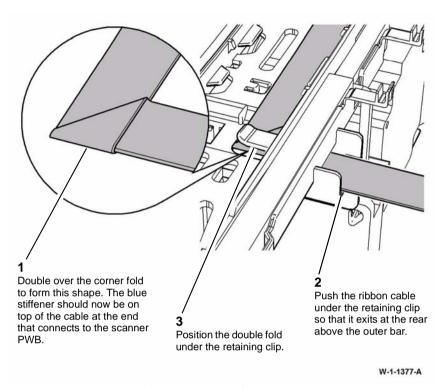


Figure 4 Data cable install 1 of 3

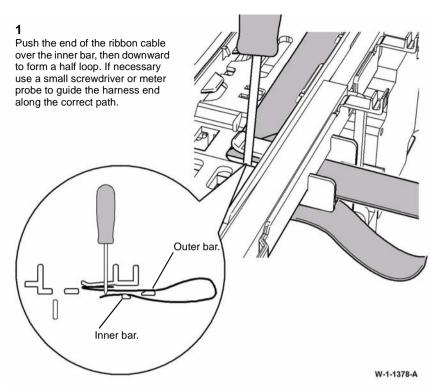


Figure 5 Data cable install 2 of 3

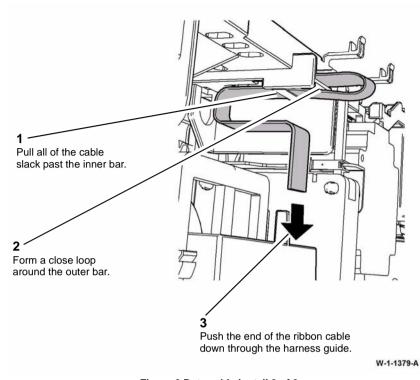


Figure 6 Data cable install 3 of 3

- 3. Position the second corner fold over the left retaining clip (shown in Figure 1) to check the length of the data ribbon cable along the harness carrier. If the data ribbon cable appears to be too long, form a Z fold in the cable where it lies over the harness carrier.
- 4. Thread the power ribbon cable along the harness carrier from the left end towards the SPDH PWB, so that is on top of the data ribbon cable. The blue stiffener at the SPDH PWB end of the cable should be on top of the cable.
- 5. Pass the side 2 scanner end of the power ribbon cable through the SPDH frame to lay on top of the side 2 scanner.
 - **NOTE:** To ease the passage of the harness through the frame, position a 150mm (6 inch) rule through the frame first, then slide the ribbon cable along the rule.
- 6. Pass the side 2 scanner end of the data ribbon cable through the SPDH frame to lay on top of the power ribbon cable. Place the corner fold of the data ribbon cable inside the corner fold of the power ribbon cable. Slide both ribbon cables under the left retaining clip (shown in Figure 1).
- Connect the power ribbon cable to the side 2 scanner PJ451 by pushing the ribbon cable
 into the connector. The blue stiffener at the scanner end of the cable should be on top of
 the cable.
- 8. Connect the data ribbon cable to the side 2 scanner PJ452:

- a. Ensure the cable clamp is facing to the left (open).
- b. Place the ribbon cable fully into the connector. The blue stiffener at the scanner end of the cable should be on the same side as the cable clamp.
- c. Close the cable clamp by folding it up against the cable.
- 9. The remainder of the replacement is the reverse of the removal procedure.

REP 5.23 SPDH Read Assembly

Parts List on PL 5.19 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

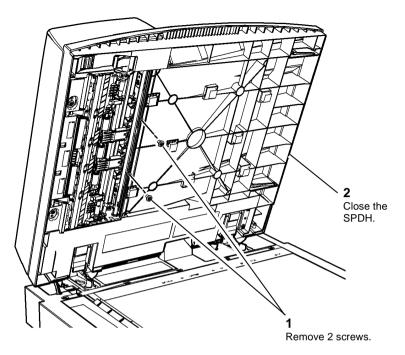


Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the document pad, PL 5.10 Item 3, by removing 2 K-L clips from the right side of the pad, then un-clip the 2 fasteners at the left side.
- 2. Remove the read assembly lower fasteners, Figure 1.



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Figure 1 Lower fasteners removal

- Remove the SPDH, REP 5.19.
- 4. Remove the input tray assembly, REP 5.4.
- 5. Remove the top cover assembly, REP 5.1.
- 6. Remove the tray elevator motor, REP 5.24.
- 7. Remove the motor cooling fan, REP 5.20.
- Remove the feed motor, REP 5.12.
- 9. Remove the LED cooling fan, REP 5.21.
- 10. Remove the read motor, REP 5.13.
- 11. Remove the feed clutch, REP 5.14.
- 12. Remove the takeaway clutch, REP 5.15.
- 13. Remove the SPDH ribbon harnesses, REP 5.22.
- With the exception of PJ459 and PJ460, disconnect all the remaining PJs on the SPDH PWB.
- 15. Disconnect the top cover interlock switch, PL 5.10 Item 13.
- 16. Remove the calibration home position sensor and bracket, REP 5.11.
- Release from the harness carrier any remaining harnesses that are still attached to components.

18. Remove the harness carrier, Figure 2.

19. Remove the SPDH read assembly, Figure 3.

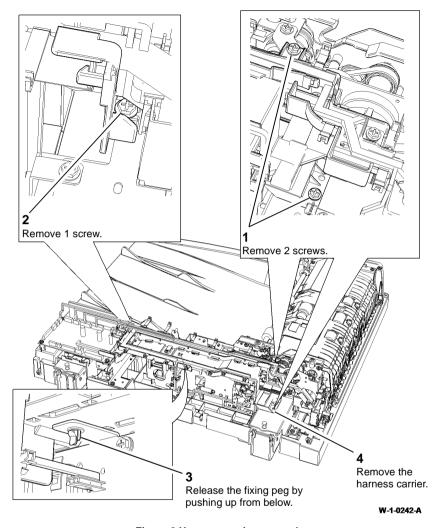


Figure 2 Harness carrier removal

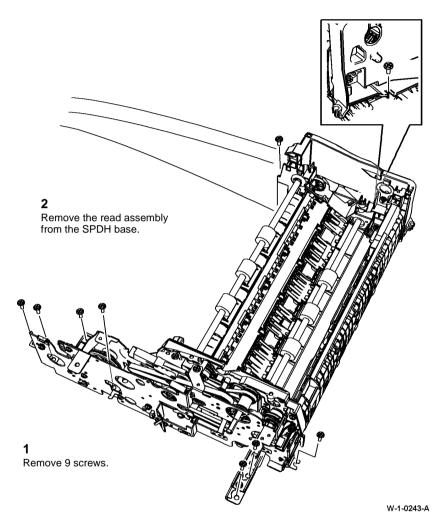
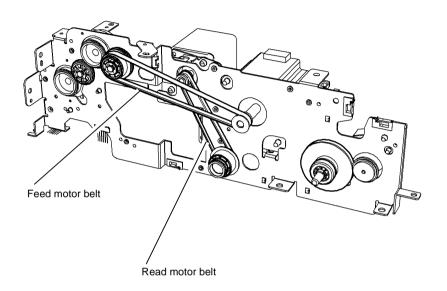


Figure 3 SPDH read assembly removal

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. When installing the feed motor and read motor, refer to Figure 4 for the drive belt routing.



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Figure 4 Drive belt routing

3. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 5.24 Tray Elevator Motor

Parts List on PL 5.18

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Do not remove the SPDH while the SPDH is lowered. In the lowered position the counterbalance springs are compressed and can cause injury when released.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: It is not necessary to remove the SPDH from the scanner to remove the SPDH harness guide.

- Remove the SPDH harness guide, PL 5.10 Item 15 to allow access to the tray elevator motor, refer to REP 5.19.
- 2. Disconnect PJ469 on the SPDH PWB.
- Release the 3 cable ties leading to the tray elevator motor from the SPDH PWB.

4. Remove the tray elevator motor, Figure 1.

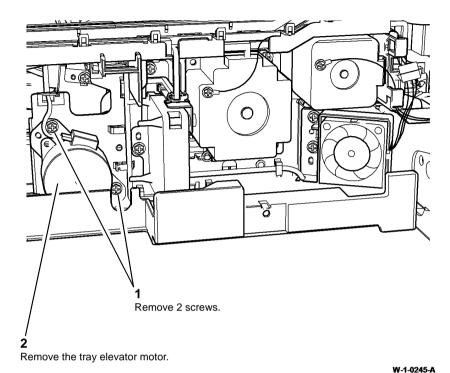


Figure 1 Motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 5.25 SPDH Read Assembly Drives

Parts List on PL 5.19

Removal

This procedure deals with all of the components within the SPDH drive kit, PL 5.19 Item 23.

- 1. Remove the SPDH read assembly, REP 5.23.
- 2. Remove the outer frame, Figure 1.

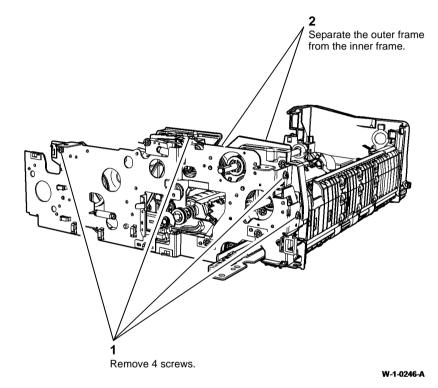


Figure 1 Outer frame removal

- 3. Remove the mid scan drive belt, PL 5.19 Item 21 and the pre scan roll drive belt, PL 5.19 4. Remove the calibration shutter driven gear PL 5.19 Item 8 and the bearing, Figure 3. Item 20, Figure 2.

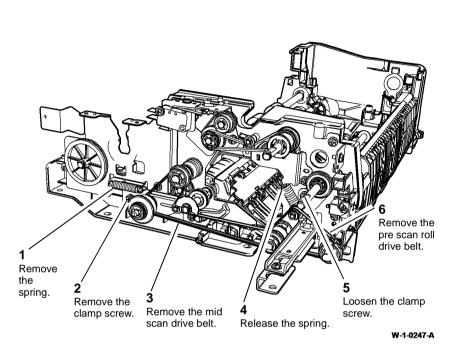


Figure 2 Drive belts removal

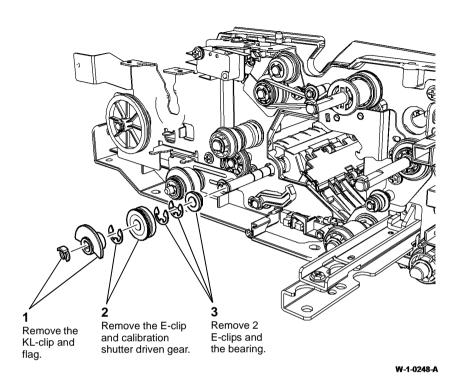


Figure 3 Shutter components removal

- Remove the calibration shutter idler gear, PL 5.19 Item 7, the exit roll drive pulley, PL 5.19 Item 12 and the calibration shutter drive gear, PL 5.19 Item 10, Figure 4.
- 6. Remove the calibration shutter lever and bearing, Figure 5.

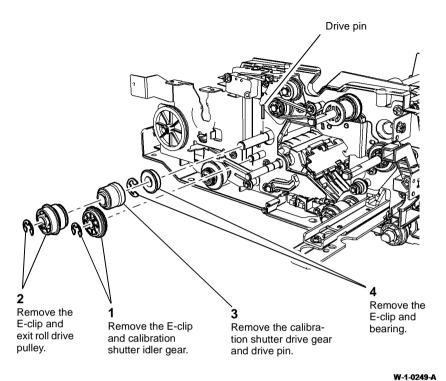


Figure 4 Exit roll components removal

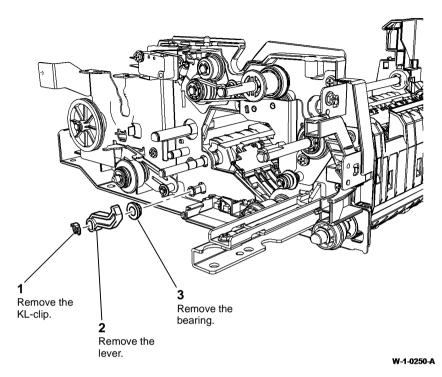


Figure 5 Shutter lever removal

 Remove the top cover interlock switch and bracket (1 screw), PL 5.10 Item 13 and PL 5.10 Item 14.

- 8. Remove the mid scan roll drive pulley, PL 5.19 Item 13 and bearing, Figure 6.
- 9. Remove the pre scan roll drive pulley, PL 5.19 Item 12 and bearing, Figure 7.

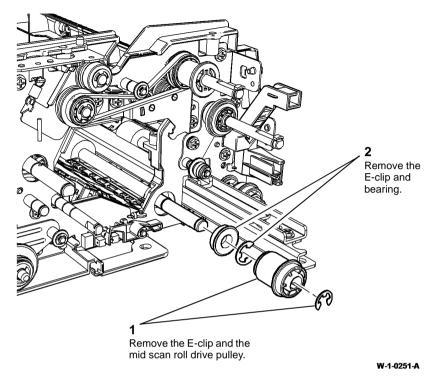


Figure 6 Mid scan pulley removal

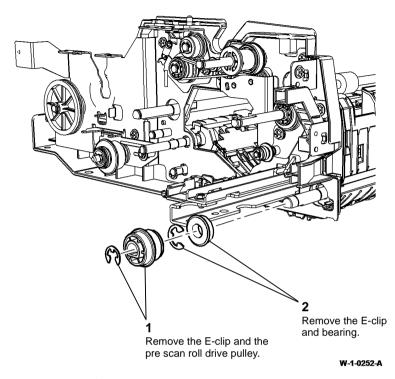


Figure 7 Pre scan roll pulley removal

11. Remove the read motor intermediate pulley, PL 5.19 Item 15 and the belt tensioner, Figure 9.

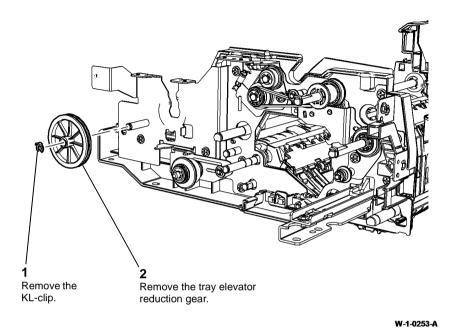


Figure 8 Reduction gear removal

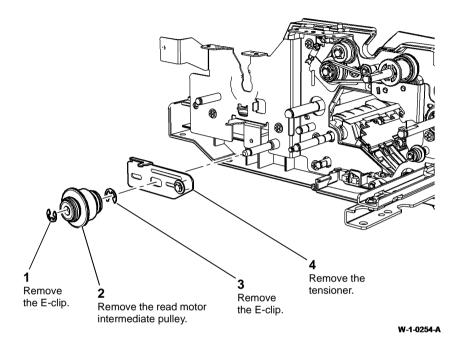


Figure 9 Intermediate pulley removal

12. Remove the pre scan belt idler pulley, PL 5.19 Item 14, Figure 10.

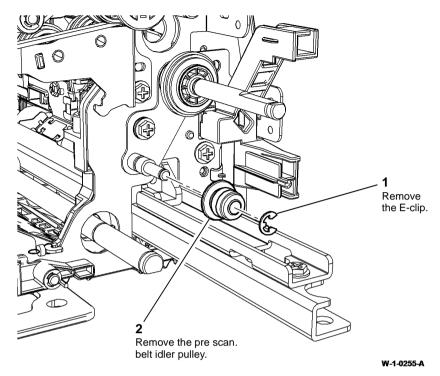


Figure 10 Idler pulley removal

13. Remove the drives support plate, Figure 11.

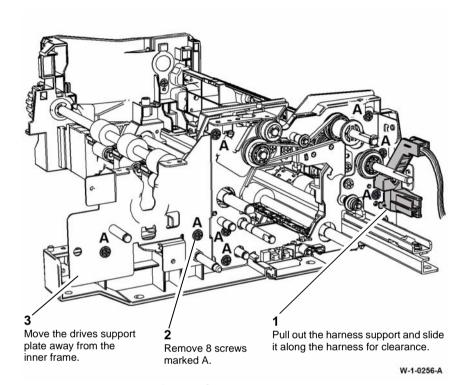


Figure 11 Support plate removal

14. Remove the takeaway roll drive gear, PL 5.19 Item 6, from the front face of the drives support plate, Figure 12.

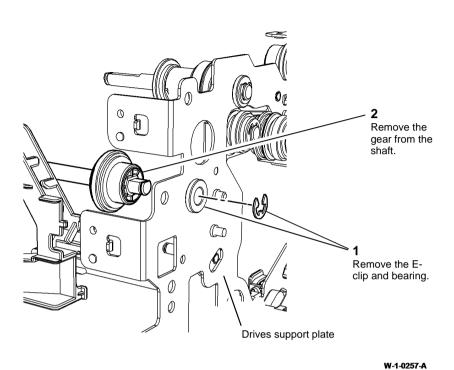


Figure 12 Drive gear removal

15. Remove the retard/feed drive gear/pulley, PL 5.19 Item 22 and feed assembly drive belt, PL 5.19 Item 18, Figure 13.

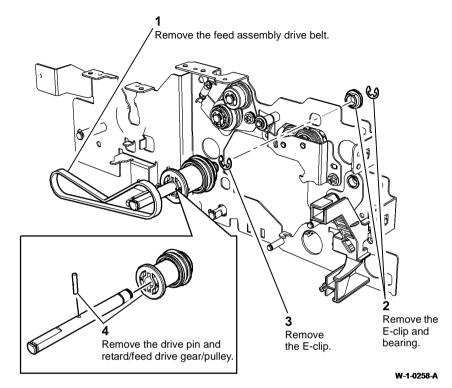


Figure 13 Gear and belt removal

- Remove the feed assembly drive idler gear, PL 5.19 Item 5 and the feed assembly drive gear/pulley, PL 5.19 Item 11, Figure 14.
- 17. Remove the retard roll intermediate drive gear, PL 5.19 Item 1, the retard roll driven gear, PL 5.19 Item 2 and the retard roll drive gear, PL 5.19 Item 3, Figure 15.

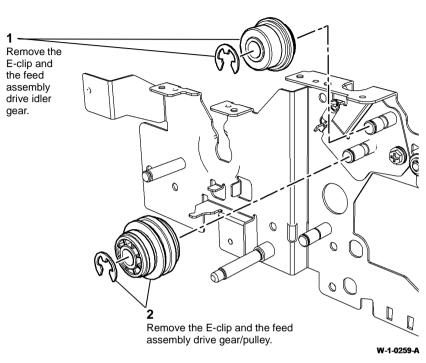


Figure 14 Drive and idler gears removal

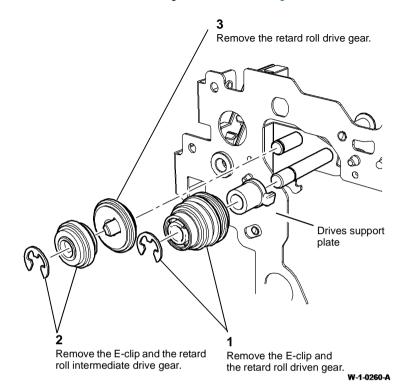


Figure 15 Retard drive removal

18. Remove the tray elevator reduction gear, PL 5.19 Item 9, from the front face of the outer frame, Figure 16.

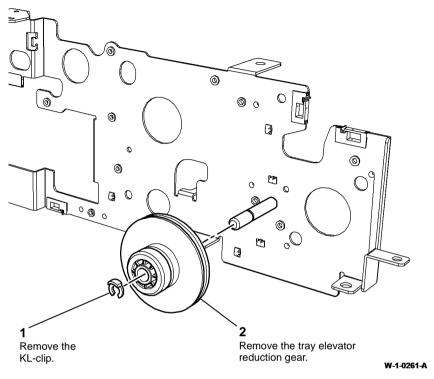


Figure 16 Reduction gear removal

19. Remove the feed clutch drive gear/pulley, PL 5.19 Item 4 and the takeaway clutch drive gear, PL 5.19 Item 7, from the front face of the outer frame, Figure 17.

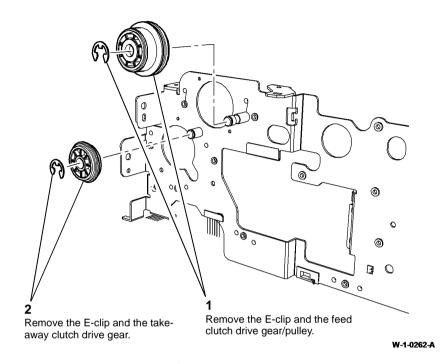


Figure 17 Gears removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 10.1 Inverter Assembly

Parts List on PL 10.10, PL 10.11, PL 10.12, PL 10.13

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

Perform the appropriate procedure dependent on the machine configuration:

- Horizontal Transport Inverter Assembly.
- Centre Output Tray Inverter Assembly.

Horizontal Transport Inverter Assembly

- 1. Open the front door.
- 2. Open the left door.
- 3. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 4. Remove the horizontal transport, REP 10.6.
- 5. Disconnect the harnesses to the inverter, Figure 1.

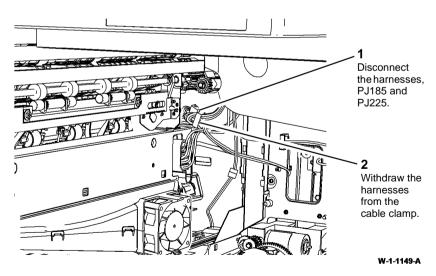


Figure 1 Harness disconnection

6. Prepare to remove the inverter assembly, Figure 2.

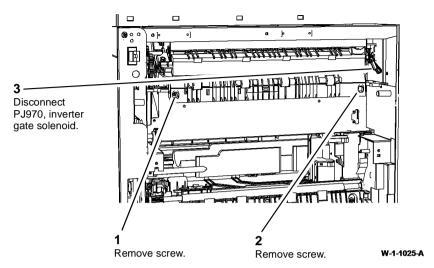


Figure 2 Inverter removal preparation

- 7. Remove the exit drive assembly, REP 10.2.
- 8. Remove the inverter locator, Figure 3.

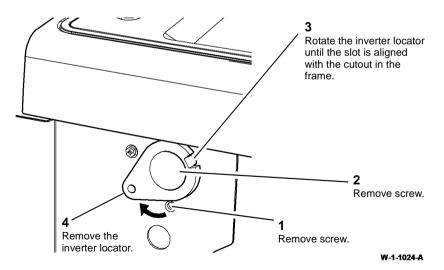
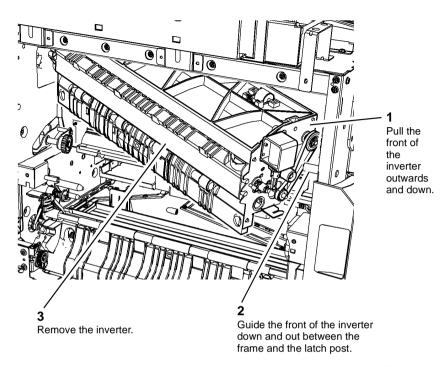


Figure 3 Inverter locator removal

9. Remove the inverter assembly, Figure 4.



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Figure 4 Inverter removal

Centre Output Tray Inverter Assembly

- 1. Open the front door.
- Open the left door.
- 3. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 4. Remove the diverter output guide, PL 10.10 Item 3.
- 5. Remove the centre output tray, REP 28.1.

6. Disconnect the harnesses to the inverter, Figure 1.

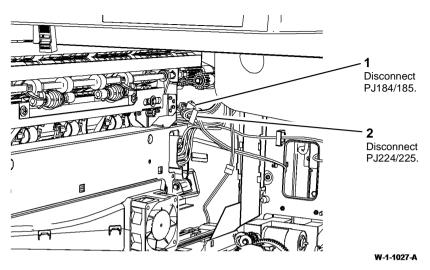


Figure 5 Harness disconnection

- 7. Remove the centre exit cover. REP 28.1.
- 8. Prepare to remove the inverter assembly. Refer to Figure 2.
- 9. Remove the exit drive assembly, REP 10.2.
- 10. Remove the inverter locator. Refer to Figure 3.
- 11. Remove the inverter assembly. Refer to Figure 4.

Replacement



Screws must be replaced in the exact reverse of the removal order shown to ensure the optimum alignment of the inverter assembly.

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure that the inverter harnesses are not trapped between the inverter and the machine frame
- 3. Ensure that the inverter harness connectors, PJ185 and PJ225 do not interfere with the drive gears. Refer to Figure 1.
- Ensure that the bail arm assembly, PL 10.11 Item 25, is not trapped between the inverter and the centre output tray, (centre output tray only).

REP 10.2 Exit Drive Assembly

Parts List on PL 10.14

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

1. Remove the rear cover, REP 28.2.



Take care to not damage the wiring harness that passes over the top of the exit drive assembly, inside the rear frame.

2. Remove the exit drive assembly, Figure 1.

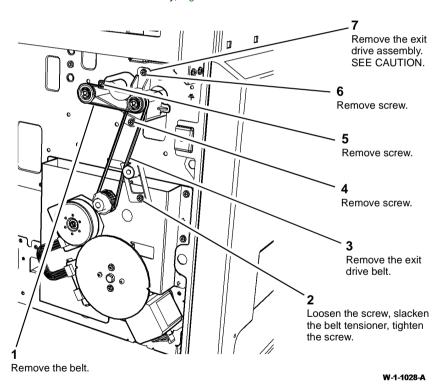


Figure 1 Exit drive assembly removal

Replacement



Screws must be replaced in the exact reverse of the removal order shown to ensure the optimum alignment of the exit drive assembly.

- Check that the gears are adequately greased, if necessary perform the Exit Drive Assembly procedure of ADJ 40.1.
- 2. The replacement is the reverse of the removal procedure. SEE CAUTIONS.

REP 10.3 Inverter Motor Parts List on PL 10.11, PL 10.12

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the inverter assembly, REP 10.1.
- 2. Remove the inverter motor, Figure 1.

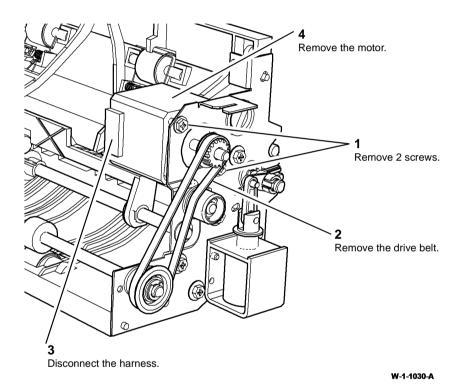


Figure 1 Inverter motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 10.4 Offset Motor

Parts List on PL 10.11

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the inverter assembly, REP 10.1.
- 2. Remove the offset motor assembly, Figure 1.

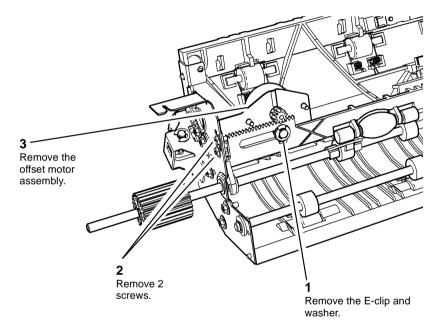


Figure 1 Offset motor removal

Replacement

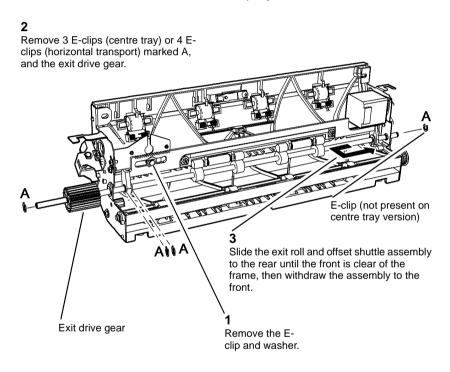
The replacement is the reverse of the removal procedure.

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Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the inverter assembly, REP 10.1.
- 2. Remove the exit roll and offset shuttle assembly, Figure 1.



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Figure 1 Shaft and shuttle removal

Replacement

The replacement is the reverse of the removal procedure.

REP 10.6 Horizontal Transport Assembly

Parts List on PL 10.15

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



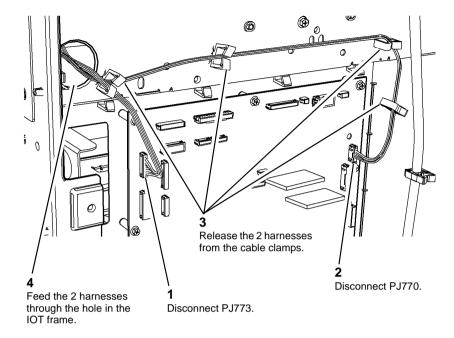
Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the finisher. Refer to:
 - REP 12.13-110 LCSS Un-Docking.
 - REP 12.13-150 LVF BM Un-Docking.
- 2. Remove the rear cover, REP 28.2.

3. Disconnect the harnesses to the horizontal transport assembly, Figure 1.



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Figure 1 Harness disconnection

- 4. Remove the upper right cover, PL 28.10 Item 3.
- 5. Open the left door.
- 6. Remove the fuser module, PL 10.8 Item 1.
- 7. Remove the centre exit cover, REP 28.1.

8. Prepare to remove the horizontal transport assembly, Figure 2.

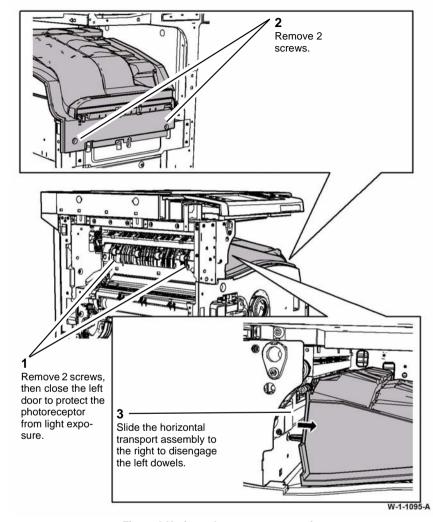
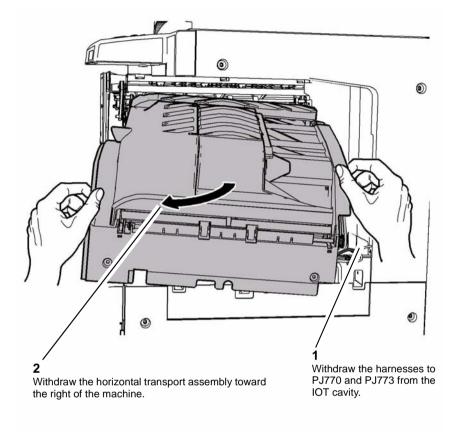


Figure 2 Horizontal transport preparation

9. Remove the horizontal transport assembly, Figure 3.



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Figure 3 Horizontal transport removal

Replacement

1. The replacement is the reverse of the removal procedure.

2. Ensure that the dowels on the horizontal transport assembly align with the holes in the frame, Figure 4.

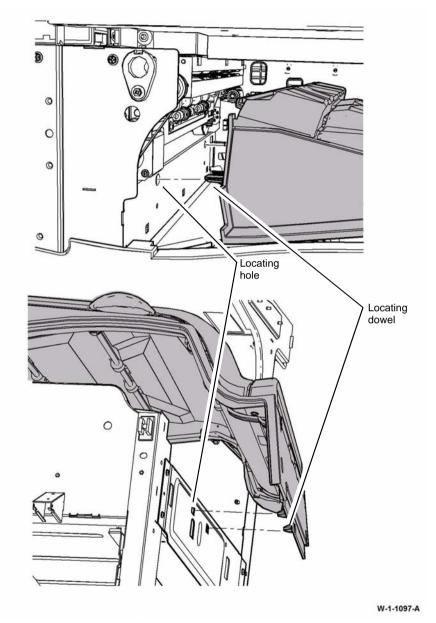


Figure 4 Transport replacement

REP 10.7 Horizontal Transport Motor and Drive Belt

Parts List on PL 10.16

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- Remove the horizontal transport assembly, REP 10.6.
- 2. Remove the pulley cover, Figure 1.

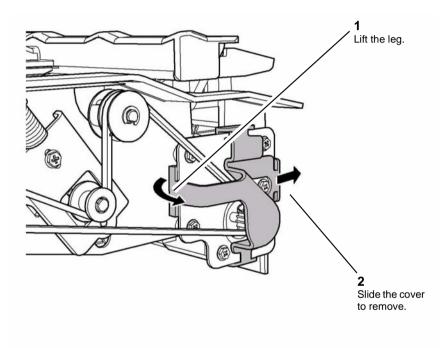


Figure 1 Pulley cover removal

Remove the horizontal transport motor or horizontal transport drive belt, as necessary, Figure 2.

NOTE: If removing only the drive belt, perform steps 2 and 3 only in Figure 2.

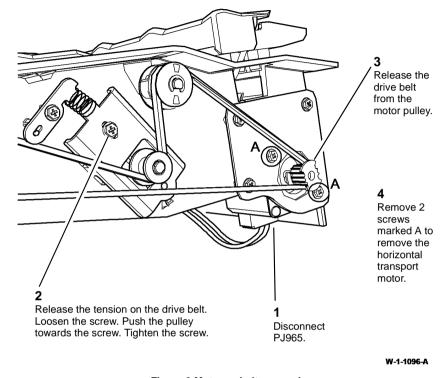


Figure 2 Motor or belt removal

Replacement

1. The replacement is the reverse of the removal procedure.

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Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the Inverter Assembly, REP 10.1.
- 2. Remove the jam clearance paper guide & hinge assembly, Figure 1.

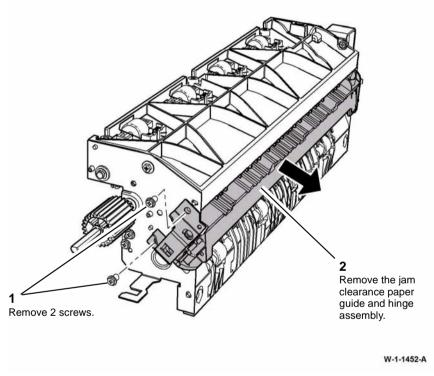


Figure 1 Assembly removal

Replacement

1. The replacement is the reverse of the removal procedure.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: Removing the top cover first will allow easy removal of the front door cover assembly and rear cover.

NOTE: Later versions of the 2K LCSS rear cover and front door cover assembly may be additionally retained by protrusions that locate in holes in the frame edges. These protrusions are best released by pulling on the bottom section of the covers.

Remove the covers, Figure 1.

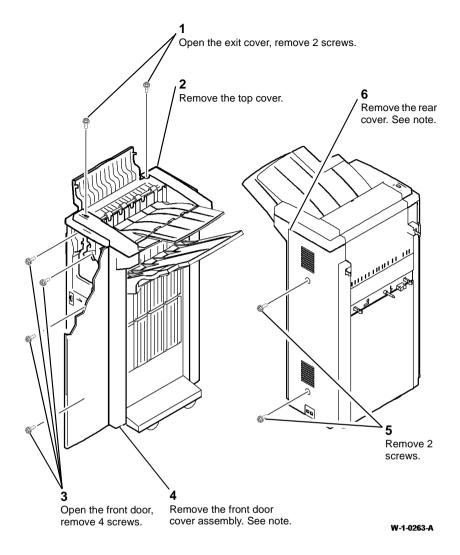


Figure 1 Covers removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.2-110 Input Drive Belt and Transport Motor 1

Parts List on PL 12.40

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS top cover and rear cover, REP 12.1-110.
- 2. Remove transport motor 1 and the input drive belt, Figure 1.

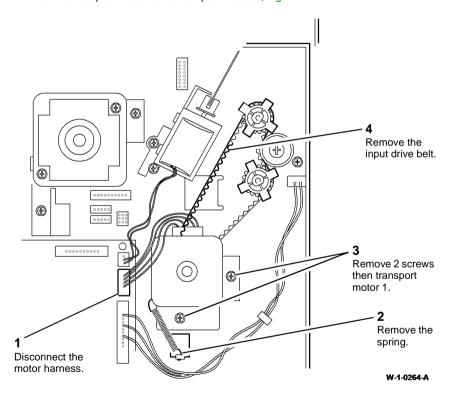


Figure 1 Component removal

Replacement

- 1. Place the input drive belt around the pulleys.
- 2. Install the motor screws, but do not tighten.
- 3. Install the spring
- 4. Rotate the shaft by hand to ensure the belt runs smoothly over the pulleys and allows the spring to tension the belt, ADJ 12.4-110.
- 5. Tighten the motor screws and re-connect the harness.
- 6. Install the 2K LCSS top cover and rear cover, REP 12.1-110.

REP 12.3-110 Intermediate Paper Drive Belt

Parts List on PL 12.60

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS top cover and rear cover, REP 12.1-110.
- 2. Remove the intermediate paper drive belt, Figure 1.

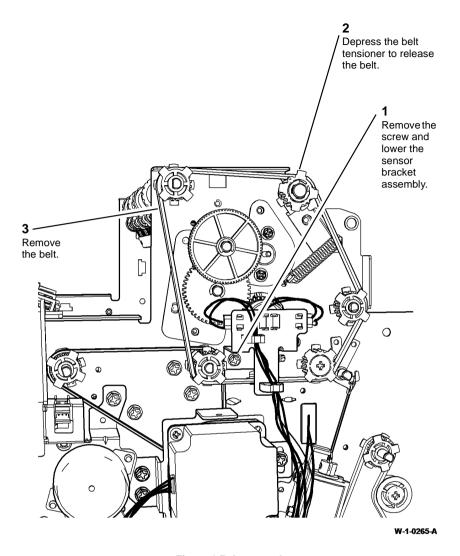


Figure 1 Belt removal

Replacement

- 1. If necessary, lubricate the belt tensioner, refer to ADJ 40.1.
- 2. Install the belt over the pulleys, ensuring that the belt is on all 5 pulleys.

NOTE: Two of the pulleys are free to slide along the shaft. Ensure that the belt is correctly located on these pulleys.

3. Reverse the removal procedure to install the remainder of the components.

REP 12.4-110 Paper Output Drive Belt and Transport Motor 2

Parts List on PL 12.60 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS top cover and rear cover, REP 12.1-110.
- 2. Remove the intermediate paper drive belt, REP 12.3-110.
- 3. Remove the paper output drive belt and transport motor 2, Figure 1.

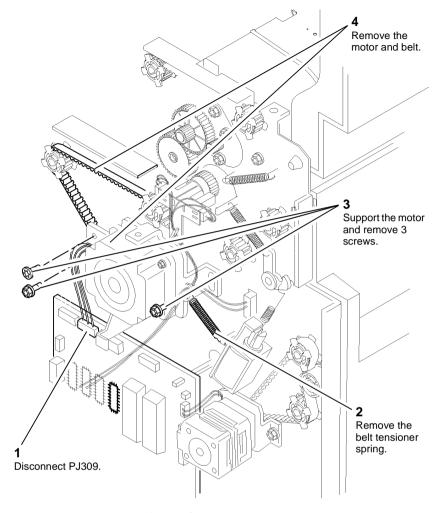


Figure 1 Component removal

Replacement

- 1. Install the paper output drive belt over the pulleys.
- 2. Install the transport motor 2 pivot shoulder screw and fully tighten.
- 3. Install the 2 motor mounting bracket securing screws, but do not tighten them.
- 4. Install the belt tensioner spring.
- Rotate the belt by hand to allow the spring to tension the belt, ADJ 12.4-110. Tighten the screws
- 6. Install the intermediate drive belt, REP 12.3-110.
- 7. Install the 2K LCSS top cover and rear cover, REP 12.1-110.

REP 12.5-110 Bin 1 Drive Belts

Parts List on PL 12.30 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

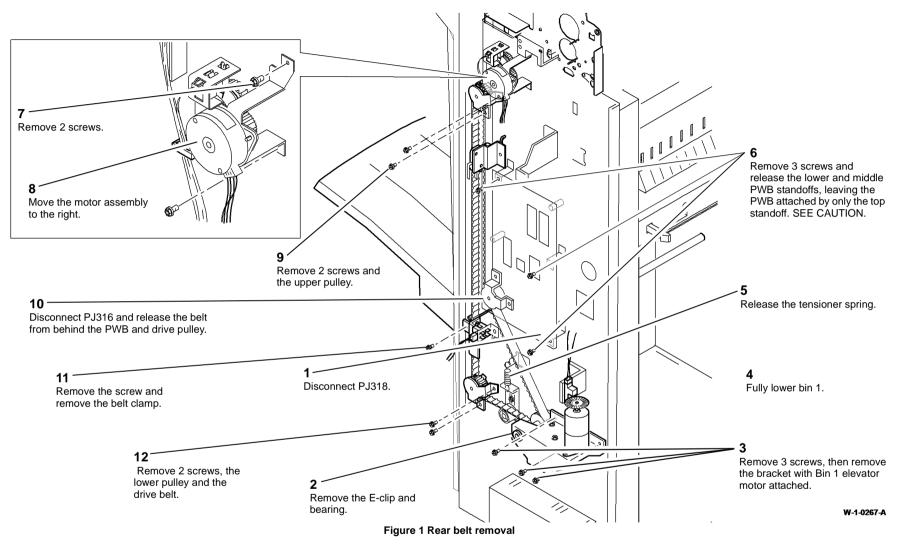
1. Remove the 2K LCSS covers, REP 12.1-110.



CAUTION

Ensure that ESD procedures are observed during step 6 of Figure 1.

2. Remove the bin 1 drive belt (rear) Figure 1.



B. Remove the bin 1 drive belt (front) Figure 2.

NOTE: Keep all of the front components removed as a set. The set of front frame components are different from the rear frame set.

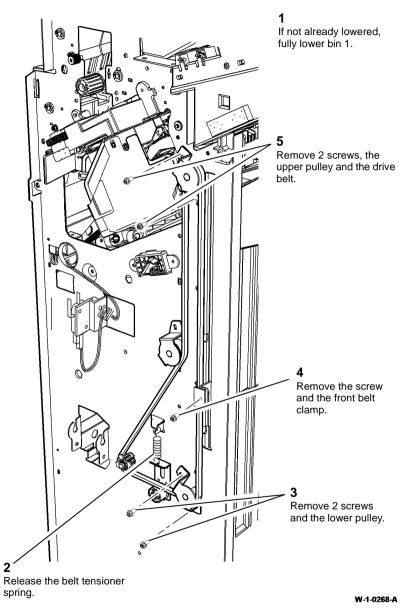


Figure 2 Front belt removal

Replacement

NOTE: Ensure the correct set of components are used for the front and the rear of the 2K LCSS.

- Check that bores of the pulleys and idlers are adequately greased, if necessary perform the 2K LCSS Bin 1 Drive Belt Pulleys and Idler procedure of ADJ 40.1.
- Check that belt tensioners are adequately greased, if necessary perform the 2K LCSS Drive Belt Tensioners procedure of ADJ 40.1.
- 3. The replacement is the reverse of the removal procedure.

NOTE: The bin 1 level can critically affect the overall stack registration. Refer to ADJ 12.1-110 if adjustment is necessary.

4. Install the 2K LCSS covers, REP 12.1-110.

REP 12.6-110 Tamper Assembly

Parts List on PL 12.45

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.

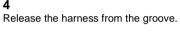


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS covers, REP 12.1-110.
- 2. Prepare to remove the tamper assembly, Figure 1.



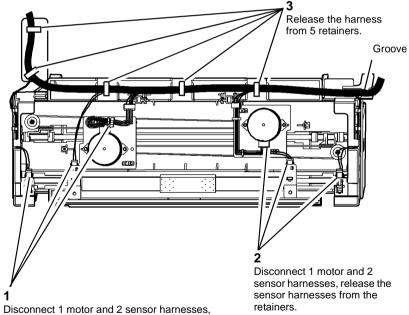


Figure 1 Preparation

3. Remove the tamper assembly, Figure 2.

NOTE: For clarity, bin 1, PL 12.10 Item 10 has been omitted from Figure 2.

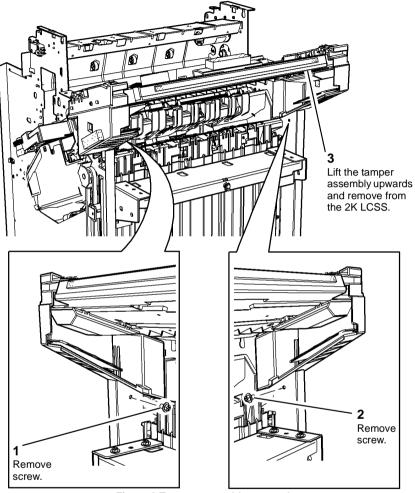


Figure 2 Tamper assembly removal

Replacement

NOTE: Ensure that the tamper assembly locates correctly in the 2K LCSS frame.

NOTE: Ensure that the sensors are correctly located in the tamper assembly. They are easily mis-located when being re-connected to the harnesses.

NOTE: Ensure that all connectors in the harness over the tamper assembly are securely connected.

The replacement is the reverse of the removal procedure.

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release the sensor harnesses from the retainers.

REP 12.7-110 Hole Punch Unit, Motor and Sensors

Parts List on PL 12.20

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS covers, REP 12.1-110.
- 2. Remove and empty the chad bin, PL 12.20 Item 4.
- 3. Remove the hole punch unit, motor assembly and sensors, Figure 1.

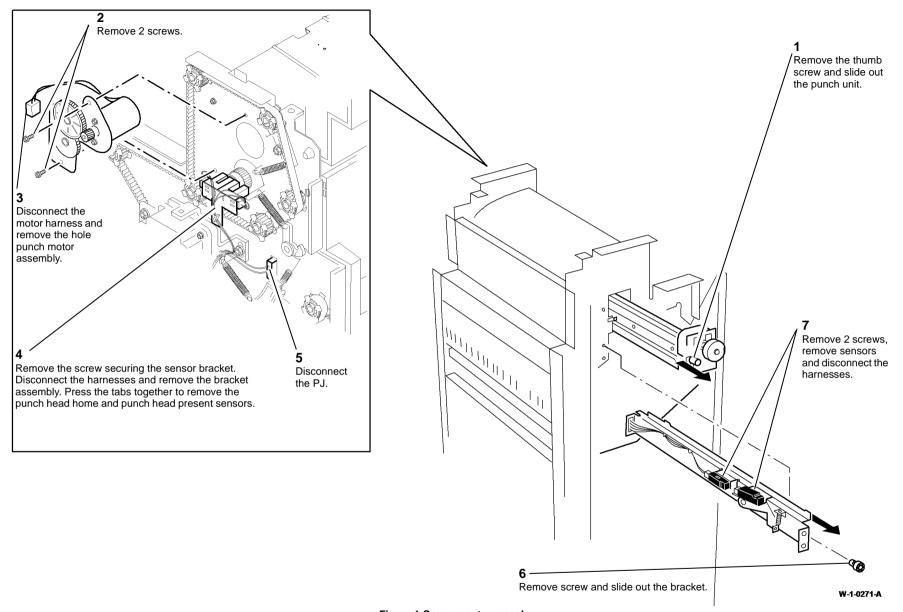


Figure 1 Component removal

Replacement

NOTE: When installing the hole punch motor assembly, ensure that the belt tensioner arm does not get trapped behind the motor assembly plate.

1. The replacement is the reverse of the removal procedure.

REP 12.8-110 Stapler Traverse Assembly

Parts List on PL 12.55

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when un-docked from the machine. Do not show the customer how to un-dock the 2K LCSS.

- 1. Un-dock the 2K LCSS, REP 12.13-110.
- 2. Remove the 2K LCSS covers, REP 12.1-110.
- B. Remove the entry guide cover, REP 12.15-110.
- 4. Manually move the ejector, PL 12.50 Item 1 fully to the right.

5. Disconnect the harness, Figure 1.

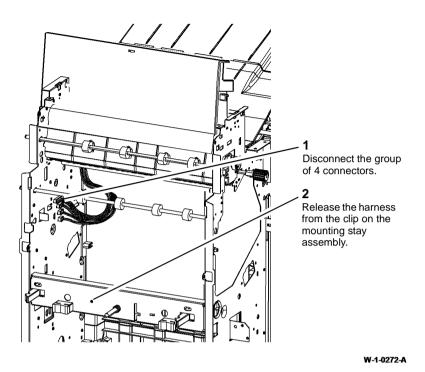


Figure 1 Harness disconnection



When removing and replacing the stapler traverse assembly, support the weight of the assembly underneath the stapler and take care not to damage the wiring.

6. Remove the stapler traverse assembly, Figure 2.

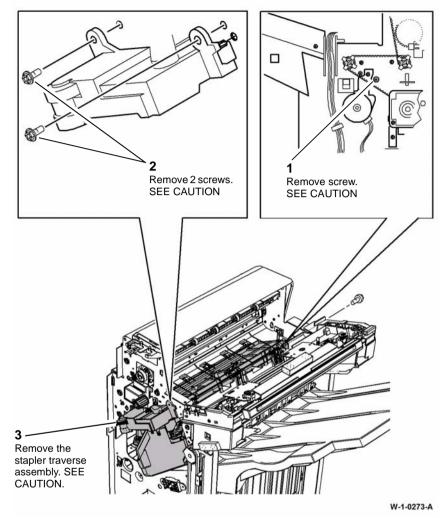


Figure 2 Traverse assembly removal

Replacement

NOTE: Ensure the stapling traverse assembly is engaged on the front and rear locating dowels.

NOTE: Ensure that the harness clamp on the mounting stay assembly is located between the two cable ties on the stapler harness.

The replacement is the reverse of the removal procedure.

REP 12.9-110 Staple Head Unit

Parts List on PL 12.55

Removal

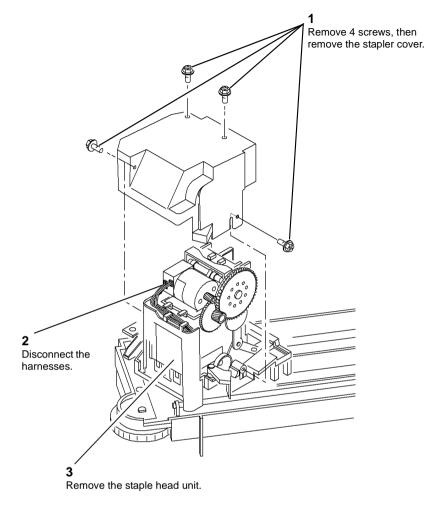


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the stapler traverse assembly, REP 12.8-110.
- 2. Place the stapler traverse unit upside-down.
- 3. Remove the staple head unit from the stapler traverse assembly Figure 1.



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Figure 1 Staple head unit removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.10-110 Ejector Assembly and Sensors

Parts List on PL 12.50

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when un-docked from the machine. Do not show the customer how to un-dock the 2K LCSS.

NOTE: The home position of the stapling unit is when the staple head unit is at the corner stapling position (fully to the front of the 2K LCSS and rotated through 45 degrees).

- 1. Disconnect the 2 harnesses between the 2K LCSS and the machine.
- 2. Un-dock the 2K LCSS. REP 12.13-110 and move it away from the machine.
- 3. Remove the top cover and front door cover assembly, REP 12.1-110.
- 4. Ensure the stapling unit is at the home position.
- 5. If necessary, manually move the ejector to the home (left) position.
- 6. Figure 1, remove the ejector assembly.

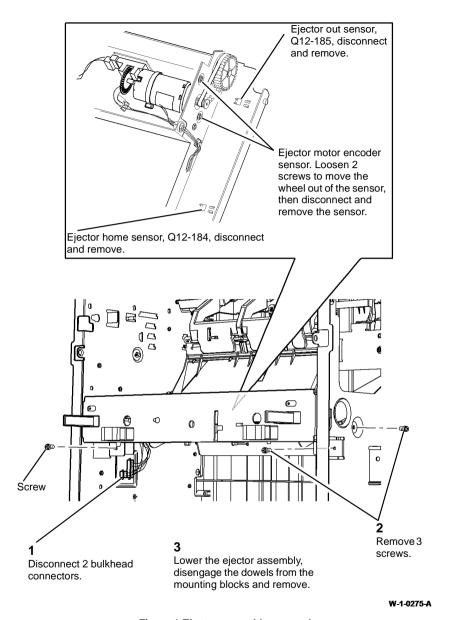


Figure 1 Ejector assembly removal

7. Figure 1, remove the appropriate sensor by releasing the sensor tabs and disconnecting the harness.

Replacement



When installing the ejector assembly onto the 2K LCSS, ensure that the ejector fingers do not damage the wiring to the staple head unit.

The replacement is the reverse of the removal procedure.

REP 12.11-110 Bin 1 Upper Level Sensor

Parts List on PL 12.35

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the ejector assembly, REP 12.10-110.

2. Remove the bin 1 upper level sensor, Figure 1.

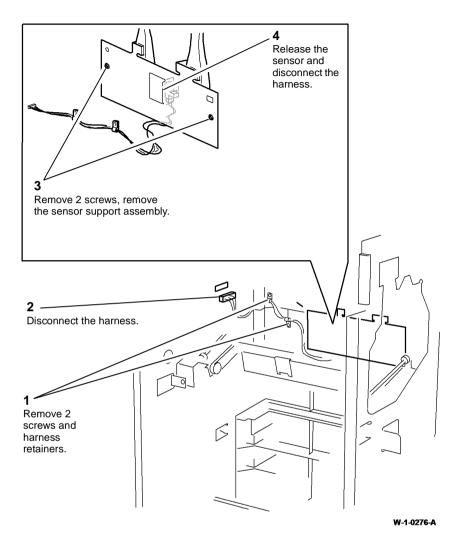


Figure 1 Removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.12-110 Paddle Shaft Assembly

Parts List on PL 12.25.

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tamper assembly, REP 12.6-110.
- 2. Remove bin 1, PL 12.10 Item 10.

3. Remove the paddle motor assembly, Figure 1.

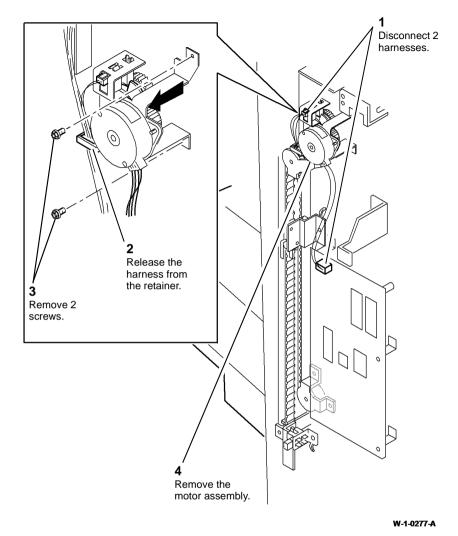


Figure 1 Paddle motor removal

4. Prepare to remove the rear components, Figure 2.

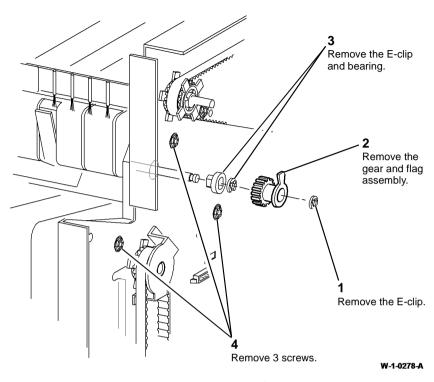


Figure 2 Rear preparation

5. Prepare to remove the front components, Figure 3.

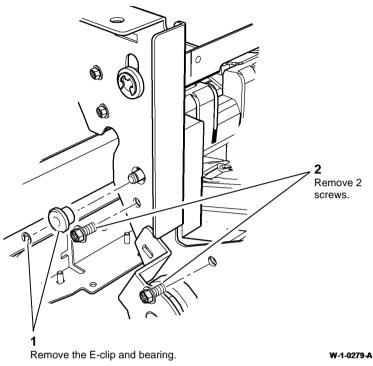


Figure 3 Front preparation

6. Ensure that the compiler ejector is in the home position (fully to the left).

7. Remove the paddle shaft assembly, Figure 4.

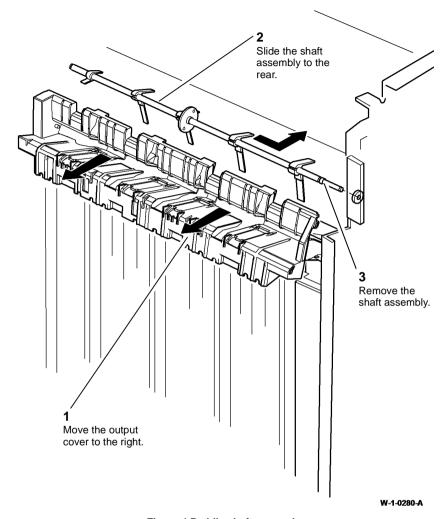
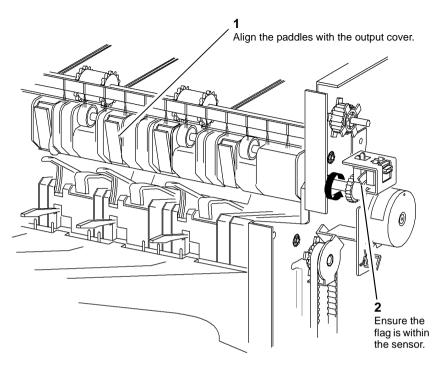


Figure 4 Paddle shaft removal

Replacement

- 1. Install the paddle shaft assembly, front bearing and E-clip. Refer to Figure 3.
- 2. Install the output cover. Refer to Figure 4.
- 3. Install the rear bearing and E-clip. Refer to Figure 2.
- 4. Install the gear and flag assembly, with the E-clip.
- 5. Install the paddle motor assembly. Refer to Figure 1.

6. Ensure the paddles and flag are correctly aligned, Figure 5.



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Figure 5 Paddle alignment

- Test the operation of the paddle roll. Enter dC330, output code 012-238. When the code is
 cancelled, the paddles must stop with both rubber blades inside of the output cover. If
 necessary, check that the paddles are assembled on the shaft correctly.
- 8. Reverse the remainder of the removal procedures to complete the procedure.

REP 12.13-110 2K LCSS Un-Docking

Parts List on PL 12.15

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when un-docked from the machine. Do not show the customer how to un-dock the 2K LCSS.

- 1. If necessary, disconnect the harnesses between the 2K LCSS and the machine.
- 2. Open the 2K LCSS front door.

3. Release the 2K LCSS docking latch assembly, Figure 1.

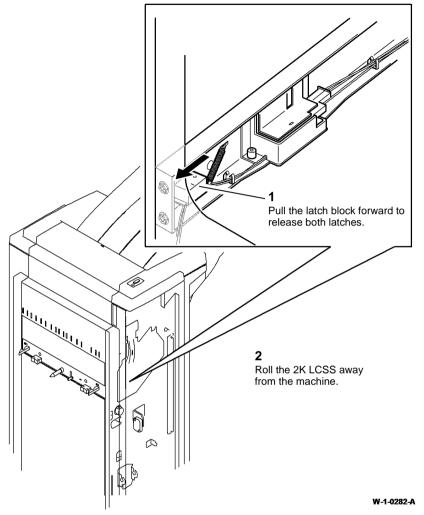


Figure 1 Docking latch assembly

Replacement

Align the 2K LCSS latches to the machine apertures, then push the 2 units firmly together until they latch.

REP 12.14-110 2K LCSS PWB

Parts List on PL 12.75

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.





Ensure that ESD procedures are observed during the removal and installation of the 2K LCSS PWB.

- 1. Remove the 2K LCSS rear cover, REP 12.1-110.
- Disconnect all harness connectors from the 2K LCSS PWB.
- 3. Remove the 3 screws and release the 3 standoffs securing the 2K LCSS PWB.

Replacement

NOTE: Before replacing the 2K LCSS rear cover, perform 312F-110 2K LCSS PWB DIP Switch Settings RAP.

The replacement is the reverse of the removal procedure.

REP 12.15-110 Entry Guide Cover

Parts List on PL 12.70

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

WARNING

Take care not to topple the 2K LCSS. The 2K LCSS is unstable when un-docked from the machine. Do not show the customer how to un-dock the 2K LCSS.

- 1. Un-dock the 2K LCSS, REP 12.13-110 and move it away from the machine.
- Remove the 2K LCSS covers, REP 12.1-110.
- 3. Remove the entry guide cover, Figure 1.

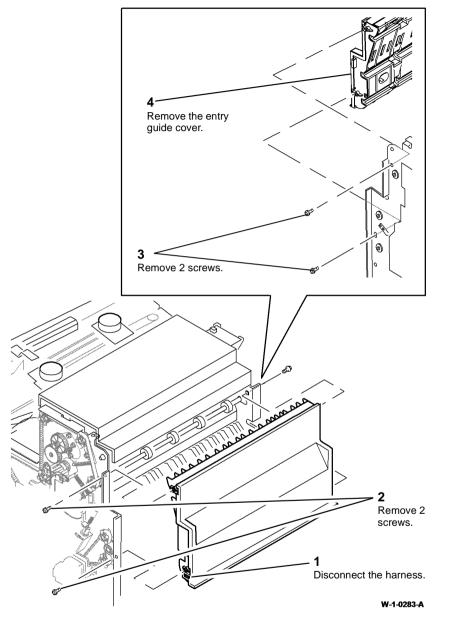


Figure 1 Entry guide cover removal

Replacement

- 1. Bias the entry guide cover away from the paper guide when you tighten the screws.
- The clearance between the entry guide cover and the paper guide must be a minimum of 1 mm. Refer to Figure 2.

NOTE: If the clearance is less than 1 mm, then install a new entry guide cover.

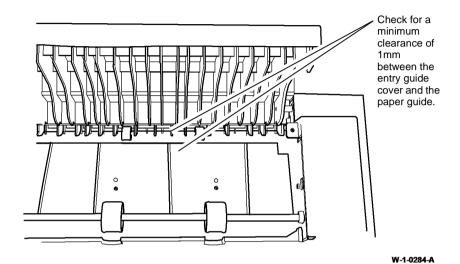


Figure 2 Entry guide cover clearance

- 3. Connect the entry sensor and dock the 2K LCSS to the machine.
- Run copies through the 2K LCSS, if possible use heavyweight paper or labels. Check for marks on the print and for damage to the paper. If there are no marks or damage then install the covers.

REP 12.16-110 Docking Latch Assembly

Parts List on PL 12.15

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the 2K LCSS. The 2K LCSS is unstable when un-docked from the machine. Do not show the customer how to un-dock the 2K LCSS.

- 1. Un-dock the 2K LCSS, REP 12.13-110 and move it away from the machine.
- 2. Remove the 2K LCSS covers, REP 12.1-110.

3. Prepare to remove the docking latch assembly, Figure 1.

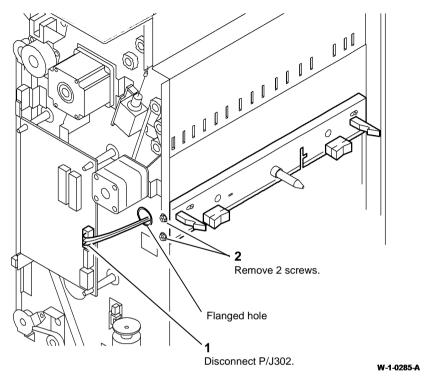


Figure 1 Preparation

4. Remove the docking latch assembly, Figure 2.

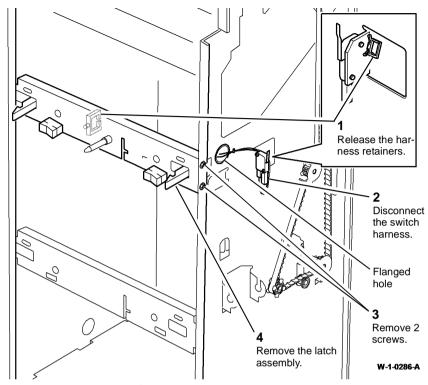


Figure 2 Latch assembly removal.

Replacement

The replacement is the reverse of the removal procedure.



Ensure that the front and rear harness are routed through the flanged holes. Refer to Figure 1 and Figure 2.

REP 12.17-110 Ejector Belt

Parts List on PL 12.50 Item 5 Removal

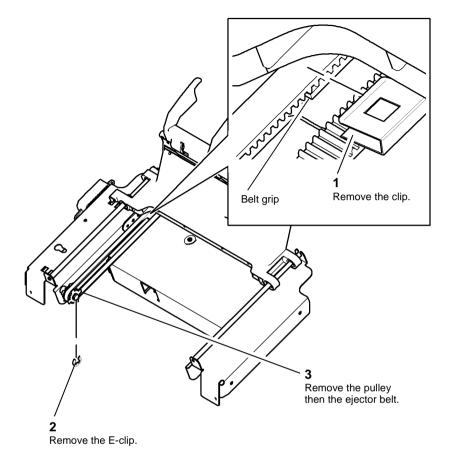


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the ejector assembly, refer to REP 12.10-110.
- 2. Remove the ejector belt, Figure 1.



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Figure 1 Ejector belt removal

Replacement

The replacement is the reverse of the removal procedure. Ensure that the ejector belt is correctly engaged with the belt grip on the ejector assembly before the clip is re-installed. Refer to Figure 1.

Parts List on PL 12.25

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

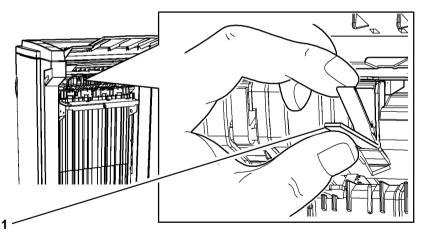
NOTE: This procedure shows the replacement of the paddles with the paddle shaft assembly installed. If necessary, remove the paddle shaft assembly before replacing the paddles. Refer to REP 12.12-110.

- 1. Remove bin 1, PL 12.10 Item 10.
- 2. Remove the top cover and the rear cover. REP 12.1-110.
- 3. Rotate the paddle shaft assembly by rotating the gear on the rear of the paddle shaft assembly until the 2 rubber blades are visible, and the shorter blade is horizontal.



To ensure that the correct home position of the paddle shaft assembly is maintained, remove the old paddles and install the new paddles one at a time.

4. Remove the paddles, Figure 1.



Squeeze the rubber blades together and pull the paddle from the shaft

W-1-0288-A

Figure 1 Paddle removal

Replacement

Hold the paddle by the 2 rubber blades, ensuring that the longer rubber blade is uppermost, align the pin inside the paddle with the hole in the shaft and clip the paddle onto the shaft

REP 12.19-110 Lower Right Paper Guide

Parts List on PL 12.65 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS covers. REP 12.1-110.
- 2. Remove the tamper assembly, REP 12.6-110.
- 3. Remove the paper output drive belt, REP 12.4-110.
- 4. Loosen the fixing screws on transport motor 2, PL 12.60 Item 5.
- 5. Prepare to remove the drive shafts Figure 1.

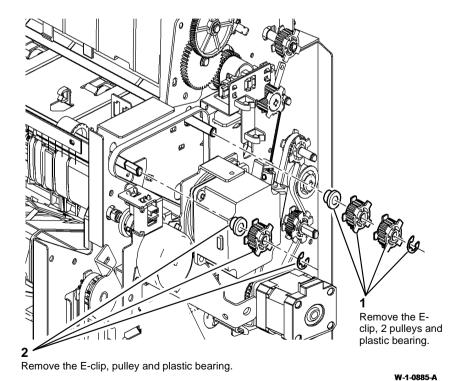


Figure 1 Preparation

6. Remove the ejector drive shaft, Figure 2.

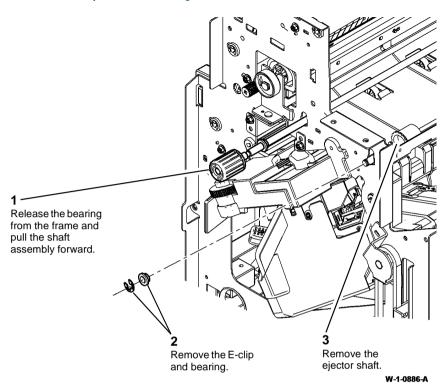


Figure 2 Ejector shaft removal

7. Remove the drive shaft, Figure 3.

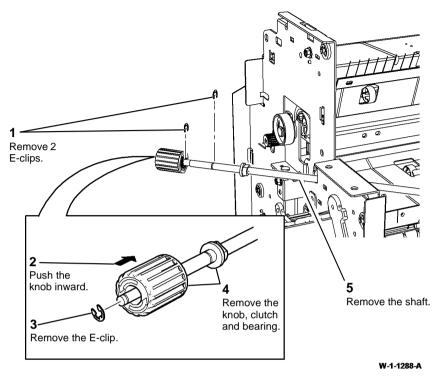


Figure 3 Drive shaft removal

8. Prepare to remove the upper right paper guide, Figure 4.

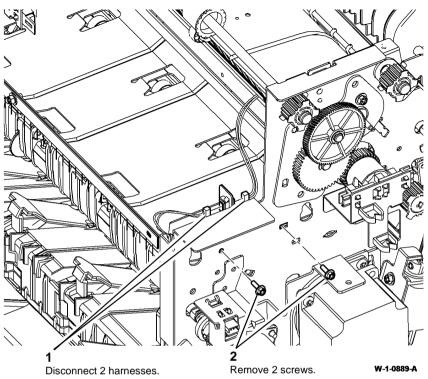


Figure 4 Preparation

9. Remove the upper right paper guide, Figure 5.

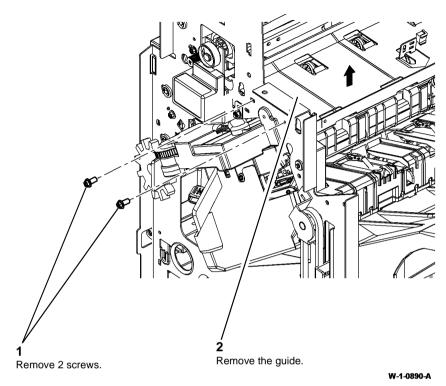


Figure 5 Upper right guide removal

10. Prepare to remove the lower right paper guide, Figure 6.

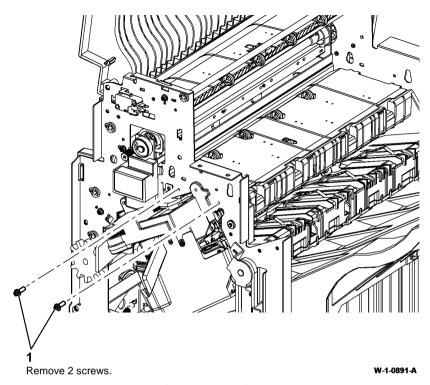


Figure 6 Preparation

11. Remove the lower right paper guide, Figure 7.

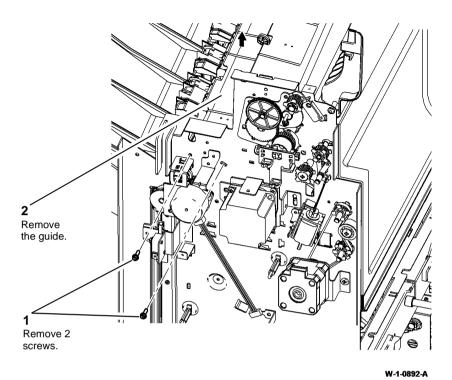
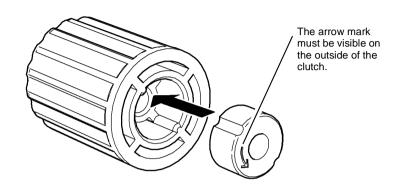


Figure 7 Lower right guide removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure that the one-way-clutch inside the knob is installed correctly, Figure 8.



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Figure 8 Clutch orientation

REP 12.20-110 Paper Guide and Top Exit Sensor

Parts List on PL 12.60 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the 2K LCSS covers. REP 12.1-110.
- 2. Remove the hole punch motor assembly, REP 12.7-110.
- 3. Prepare to remove the paper guide, Figure 1.

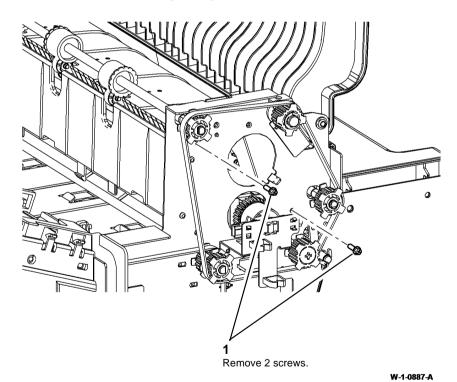


Figure 1 Preparation

4. Remove the paper guide and top tray exit sensor, Q12-107, Figure 2.

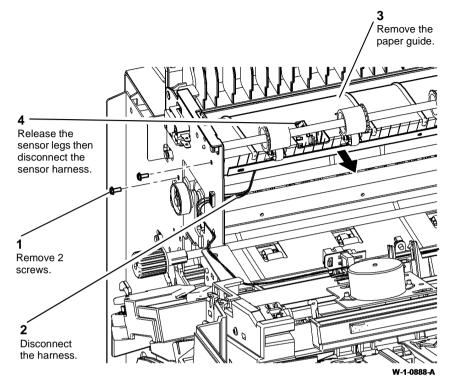


Figure 2 Guide and sensor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.1-150 LVF BM Covers

Parts List on PL 12.320, PL 12.395

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

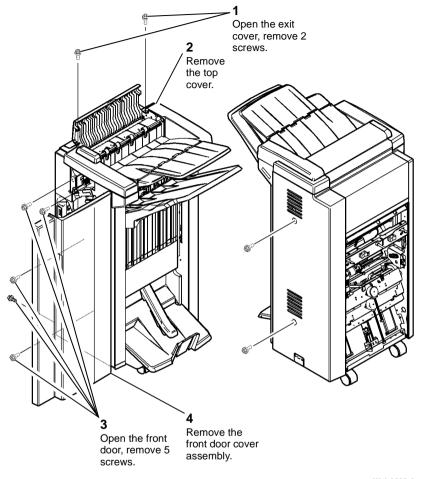


Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: Removing the top cover first will allow easy removal of the front door cover assembly and rear cover.

NOTE: The front and rear covers are additionally retained by protrusions that locate in holes in the frame edges. These protrusions are best released by pulling on the bottom section of the covers.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the covers, Figure 1 and Figure 2.



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Figure 1 Covers removal 1 of 2

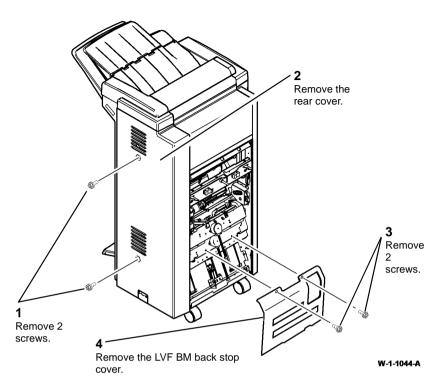


Figure 2 Covers removal 2 of 2

Replacement

The replacement is the reverse of the removal procedure.

REP 12.2-150 Input Drive Belt, Compiler Entrance Drive Belt 1 and Transport Motor 1 and Gearbox Assembly

Parts List on PL 12.350

Removal



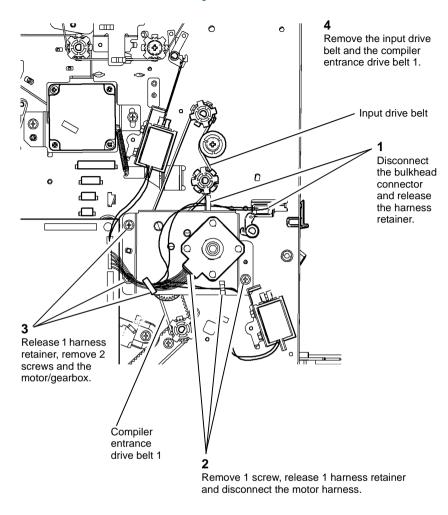
Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the LVF BM rear cover, REP 12.1-150.

2. Remove the motor and drive belt, Figure 1.



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Figure 1 Motor and drive belt removal

3. If necessary, remove 2 screws to remove the motor from the gearbox.

Replacement

Replacement is the reverse of the removal procedure.

REP 12.3-150 Intermediate Paper Drive Belt

Parts List on PL 12.370

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the LVF BM rear cover and top cover, REP 12.1-150.

2. Remove the intermediate paper drive belt, Figure 1.

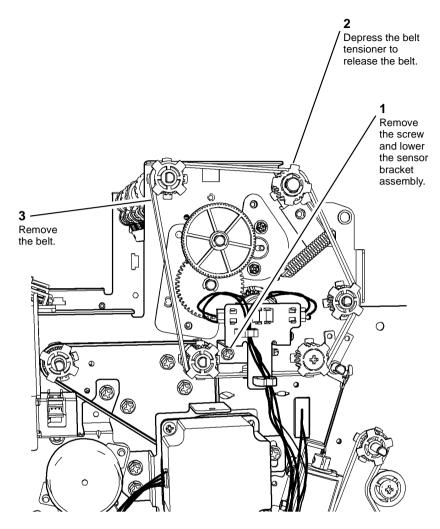


Figure 1 Belt removal

Replacement

- 1. If necessary, lubricate the belt tensioner, refer to ADJ 40.1.
- 2. Install the belt over the pulleys, ensuring that the belt is on all 5 pulleys.

NOTE: Two of the pulleys are free to slide along the shaft. Ensure that the belt is correctly located on these pulleys.

3. Reverse the removal procedure to install the remainder of the components.

REP 12.4-150 Paper Output Drive Belt and Transport Motor 2

Parts List on PL 12.370 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove the LVF BM rear cover, REP 12.1-150.
- 2. Remove the intermediate drive belt, REP 12.3-150.
- 3. Remove the output drive belt and motor, Figure 1.

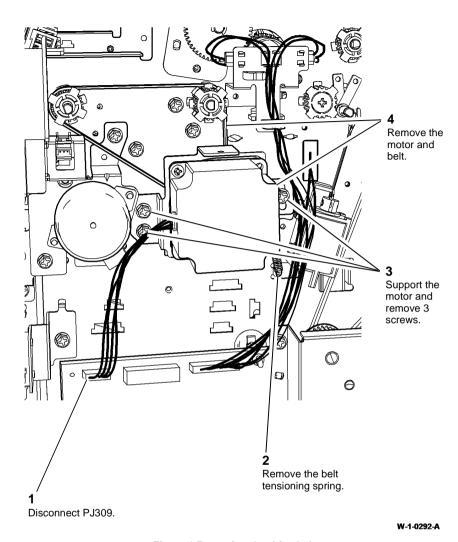


Figure 1 Removing the drive belt

Replacement

- Install the belt over the pulleys.
- 2. Install the motor pivot shouldered screw and fully tighten.
- 3. Install the 2 motor mounting bracket securing screws but do not tighten them.
- 4. Install the belt tensioner spring.
- Rotate the belt by hand to allow the spring to tension the belt, ADJ 12.4-110. Tighten the screws.

- Install the intermediate drive belt, REP 12.3-150.
- 7. Install the LVF BM rear cover, REP 12.1-150.

REP 12.5-150 Bin 1 Drive Belts and Stacker Tray Drive and **Motor Assembly**

Parts List on PL 12.340 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- Remove the bin 1 drive belt (rear), Figure 1.

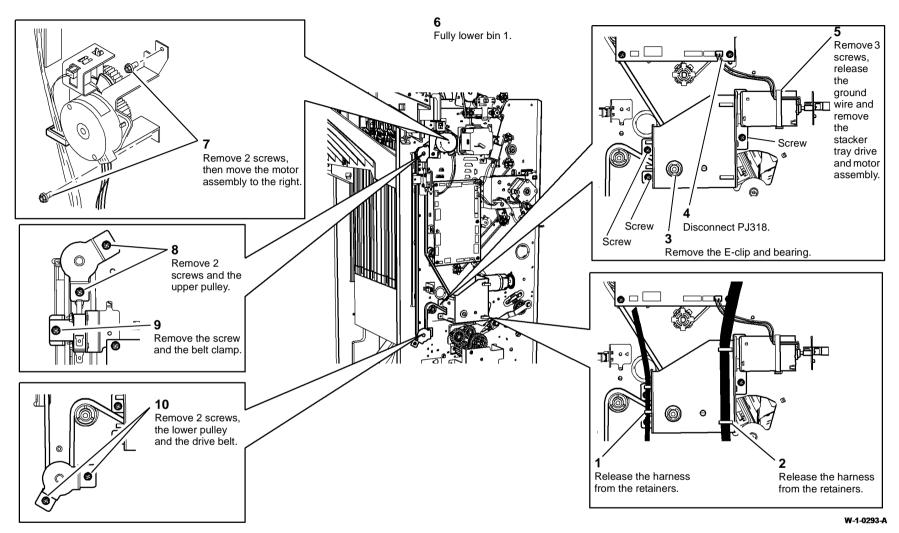


Figure 1 Bin 1 drive belt (rear)

3. Remove the bin 1 drive belt (front) Figure 2.

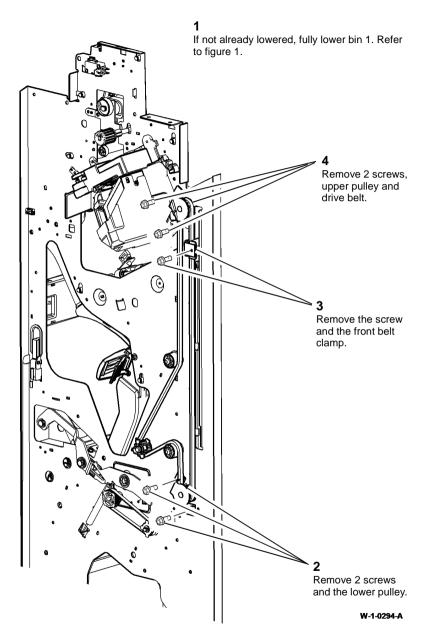


Figure 2 Bin 1 drive belt (front)

Replacement

NOTE: Ensure that the correct set of components are used for each side of the LVF BM.

- 1. Check that bores of the pulleys and idlers are adequately greased, if necessary perform the LVF BM Bin 1 Drive Belt Pulleys and Idlers procedure of ADJ 40.1.
- 2. The replacement is the reverse of the removal procedure.

NOTE: The bin 1 level can critically affect the overall stack registration. Refer to ADJ 12.1-110 if adjustment is necessary.

3. Install the LVF BM front door cover assembly and rear cover. REP 12.1-150.

REP 12.6-150 Tamper Assembly and Sensors

Parts List on PL 12.355

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove the LVF BM covers REP 12.1-150.
- 2. Remove bin 1 (1 K-L clip).

3. Prepare to remove the tamper assembly Figure 1.

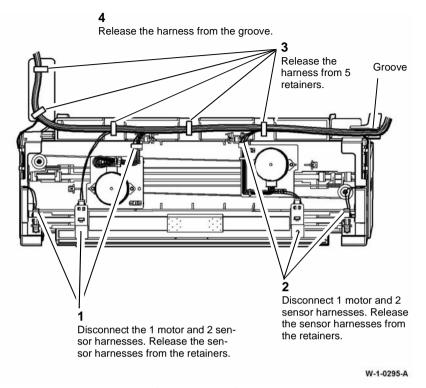
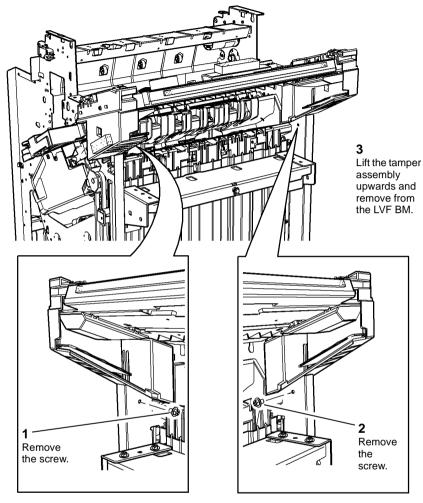


Figure 1 Preparation

4. Remove the tamper assembly, Figure 2.



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Figure 2 Removing the tamper assembly

- 5. To remove the front tamper home sensor, Q12-180, disconnect the harness and release the sensor legs.
- 6. To remove the rear tamper home sensor, Q12-181, disconnect the harness and release the sensor legs.
- 7. To remove the rear tamper away sensor, Q12-183, disconnect the harness and release the sensor legs.

Replacement

- 1. Refer to GP 6 before re-fitting the screws.
- 2. The replacement is the reverse of the removal procedure.

NOTE: Ensure that:

- The slots in the tamper assembly locate correctly in the LVF BM frame.
- The sensors are correctly located in the tamper assembly, they are easily mis-located when being re-connected to the harnesses.
- All connectors in the harness over the tamper assembly are securely connected.

REP 12.7-150 Hole Punch Unit, Motor and Sensors

Parts List on PL 12.330

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the LVF BM covers, REP 12.1-150.
- 2. Remove and empty the chad bin, PL 12.330 Item 4.
- 3. Remove the hole punch unit, motor assembly and sensors, Figure 1.

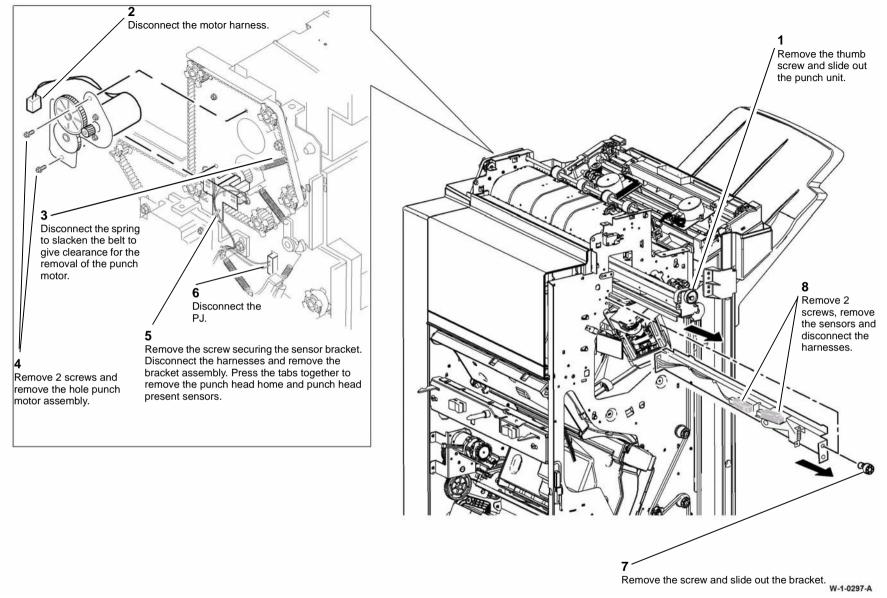


Figure 1 Removal

NOTE: Refer to IQS 6 Copy/Print Defects for hole punch performance specifications.

Replacement

1. The replacement is the reverse of the removal procedure.

REP 12.8-150 Stapler Traverse Assembly and Sensors

Parts List on PL 12.365

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the rear cover and front door cover assembly, REP 12.1-150.
- 3. Remove the entry guide cover assembly, REP 12.15-150.
- 4. Remove the paper entry guide assembly, Figure 1.

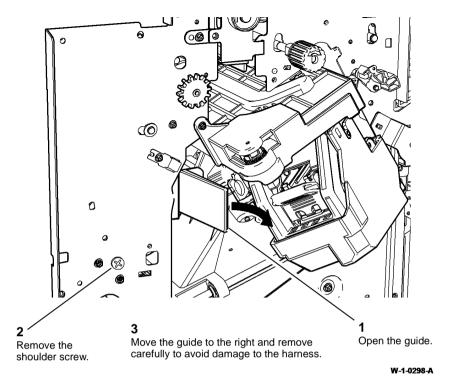


Figure 1 Paper entry guide removal

5. If necessary, manually move the ejector, PL 12.360 Item 1 fully to the right.

6. Disconnect the harness, Figure 2.

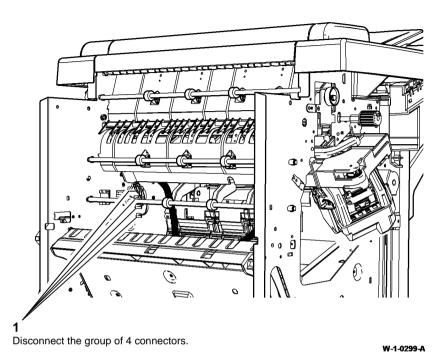


Figure 2 Harness disconnection

7. Release the stapler harness, Figure 3.

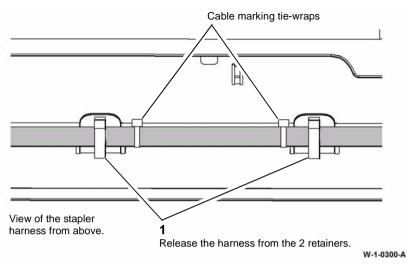


Figure 3 Harness release



When removing and replacing the stapler traverse assembly, support the weight of the assembly underneath the stapler and take care not to damage wiring.

8. Remove the stapler traverse assembly, Figure 4.

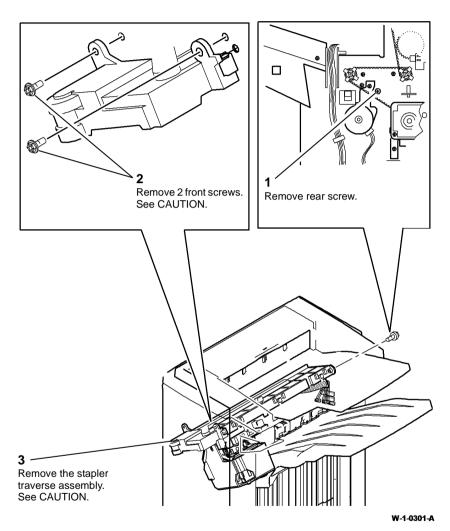


Figure 4 Traverse assembly removal

To remove the staple home sensor, Q12-135, disconnect the harness and release the sensor legs.

- To remove the stapler index sensor, Q12-168, disconnect the harness and release the sensor legs.
- 11. To remove the SH1 paper sensor, Q12-196, disconnect the harness and release the sensor grips.

Replacement

- 1. Refer to GP 6 before re-fitting screws into plastic components.
- When installing the stapler harness, ensure that the cable marking tie-wraps are positioned between the 2 harness retainers, Figure 3.
- Ensure that the stapling traverse assembly is engaged on the front and rear locating dowels
- Ensure that the stapler harness does not interfere with the paper entry guide assembly, Figure 1.
- 5. Reverse the removal procedure to replace the stapling unit.

REP 12.9-150 Staple Head Unit

Parts List on PL 12.365

Removal

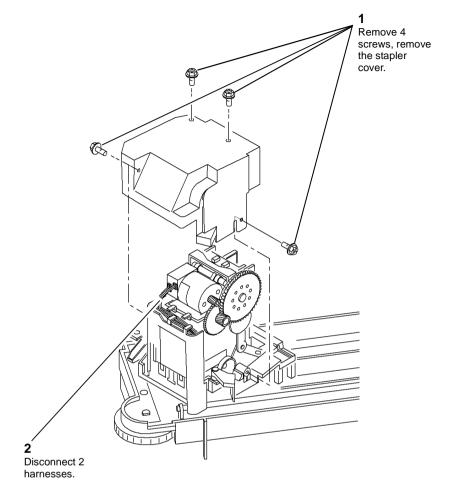


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the stapler traverse assembly, REP 12.8-150.
- 2. Place the stapler traverse unit upside-down.
- 3. Remove the staple head unit from the stapling unit, Figure 1.



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Figure 1 Staple head unit removal

Replacement

- 1. Refer to GP 6 before re-fitting screws into plastic components.
- 2. The replacement is the reverse of the removal procedure.

REP 12.10-150 Ejector Assembly, Support Finger and Sensors

Parts List on PL 12.360 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

- 1. Remove the stapler traverse assembly, REP 12.8-150.
- 2. Remove and empty the chad bin, PL 12.330 Item 4.
- 3. If necessary, manually move the ejector to the left position.

4. Prepare to remove the ejector assembly, Figure 2 and Figure 3.

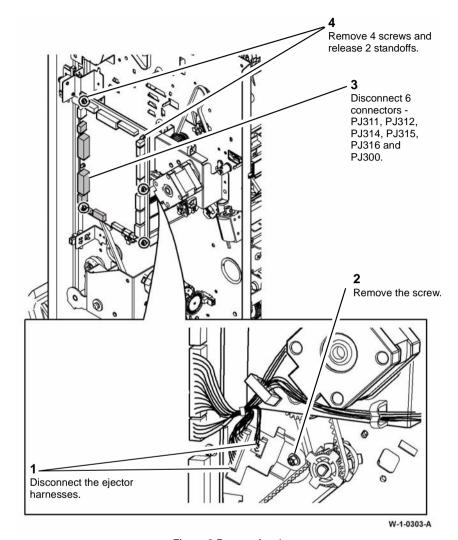


Figure 2 Preparation 1

5. Remove the front fixings, Figure 4.

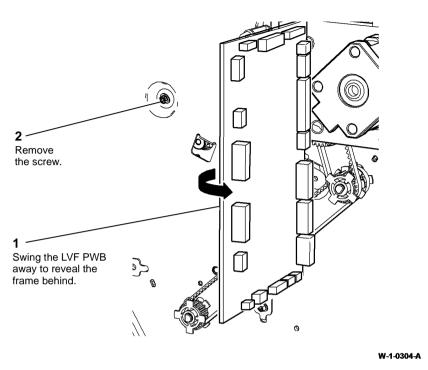


Figure 3 Preparation 2

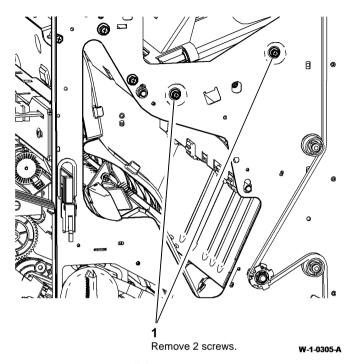


Figure 4 Front fixings removal

6. Remove the ejector assembly, Figure 5.

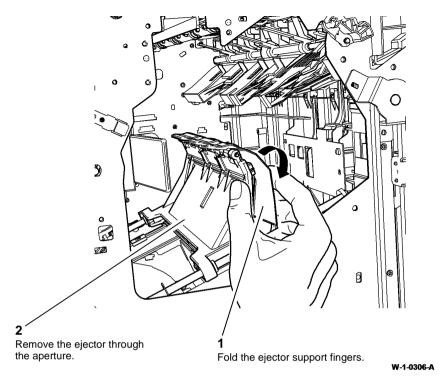


Figure 5 Ejector assembly removal

7. If required, remove the appropriate sensor, Figure 6.

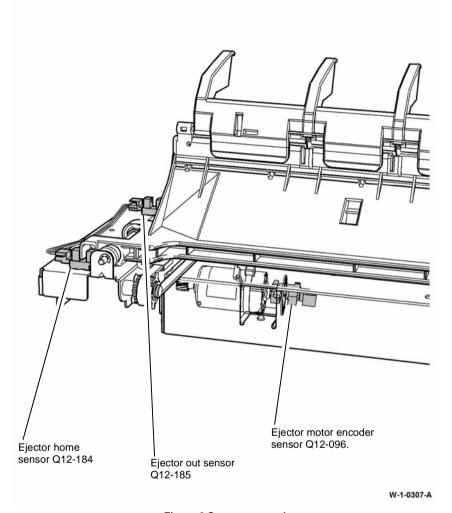


Figure 6 Sensor removal

8. If required, prepare to remove the support finger, Figure 7.

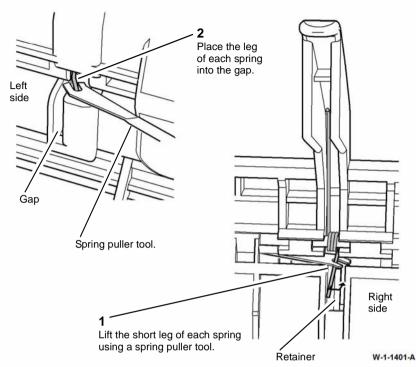


Figure 7 Preparation

9. Remove the support finger, Figure 8.

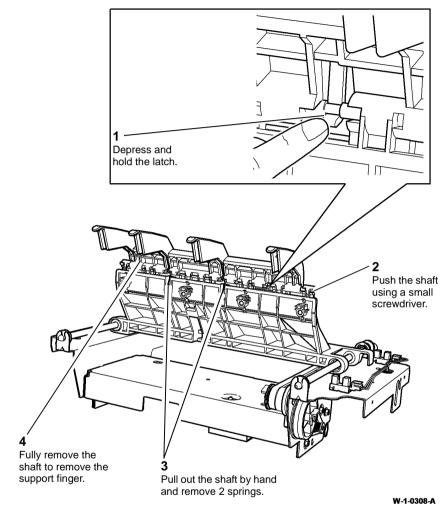


Figure 8 Support finger removal

Replacement

The replacement is the reverse of the removal procedure.

NOTE: After replacing the support finger, springs and shaft, ensure that the spring legs are lifted back behind the retainers, refer to Figure 7.

REP 12.11-150 Bin 1 Upper Level Sensor Parts List on PL 12.345 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the ejector assembly. Refer to REP 12.10-150.
- 2. Remove the bin 1 upper level sensor Figure 1.

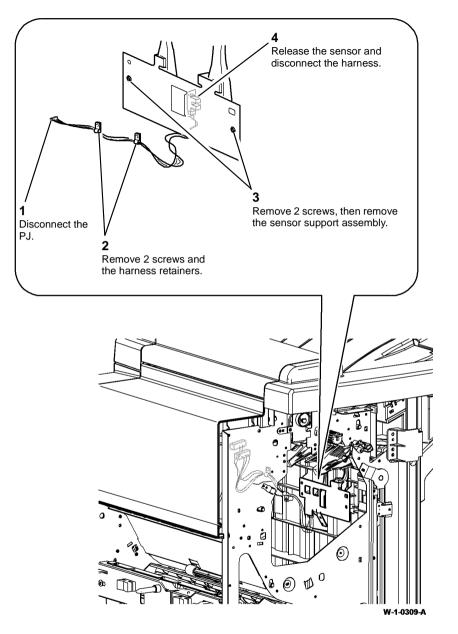


Figure 1 Bin 1 level sensors removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.12-150 Paddle Shaft Assembly and Paddle Motor Assembly

Parts List on PL 12.335

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tamper assembly, REP 12.6-150.
- 2. Remove bin 1, PL 12.320 Item 10.

3. Remove the paddle motor assembly, Figure 1.

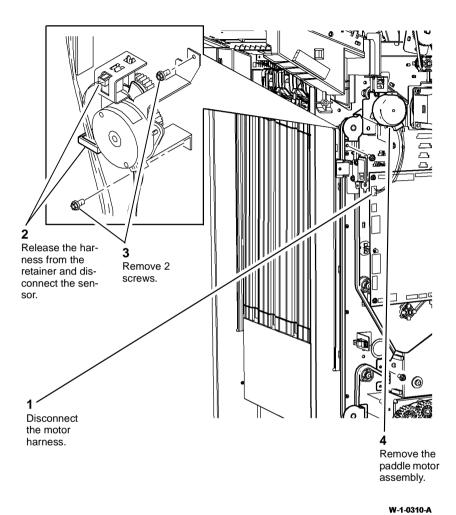


Figure 1 Paddle motor assembly

4. Prepare to remove the rear components, Figure 2.

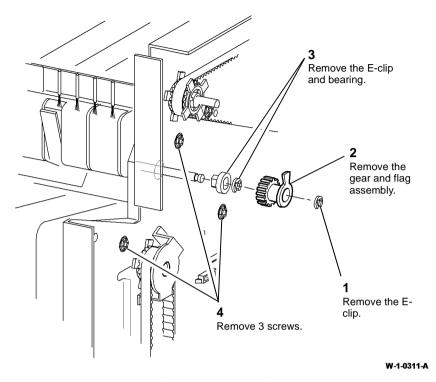


Figure 2 Rear preparation

5. Prepare to remove the front components, Figure 3.

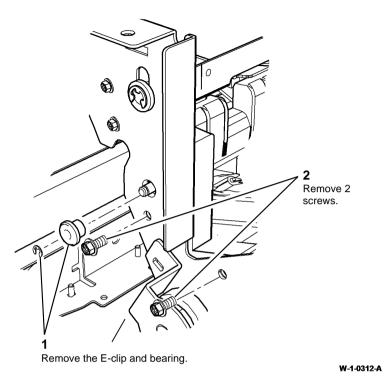


Figure 3 Front preparation

6. Remove the paddle shaft assembly, Figure 4.

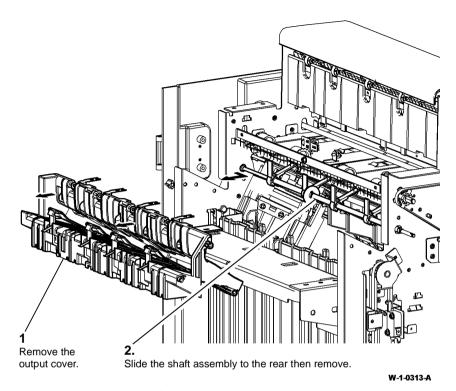
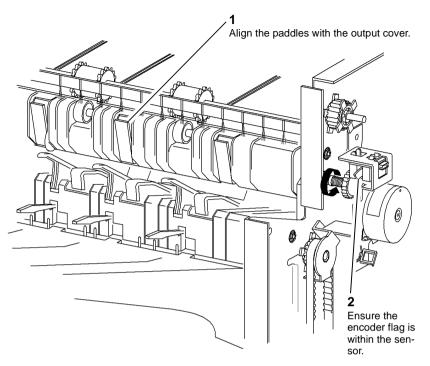


Figure 4 Paddle shaft removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. Install the paddle shaft. Install the front E-clip.
- 3. Install the output cover, Figure 4.
- 4. Install the rear bearing and E-clip.
- Install the gear and flag assembly with the E-clip. Ensure that it locates onto the "D" flat, Figure 2.
- 6. Install the motor assembly, Figure 1.
- 7. Install the tamper assembly and bin 1.

8. Ensure that the paddles and flag are correctly aligned Figure 5.



W-1-0314-A

Figure 5 Paddle alignment

Test the operation of the paddle roll, enter dC330, output code 012-238. When the code is
cancelled the paddles must stop with both rubber blades inside of the output cover. If necessary, check that the gear and flag assembly are correctly located on the "D" flat.

REP 12.13-150 LVF BM Un-Docking

Parts List on PL 12.325

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- 1. If necessary, disconnect the harnesses between the LVF BM and the machine.
- 2. Open the LVF BM front door.

3. Release the LVF BM link bracket assembly, Figure 1.

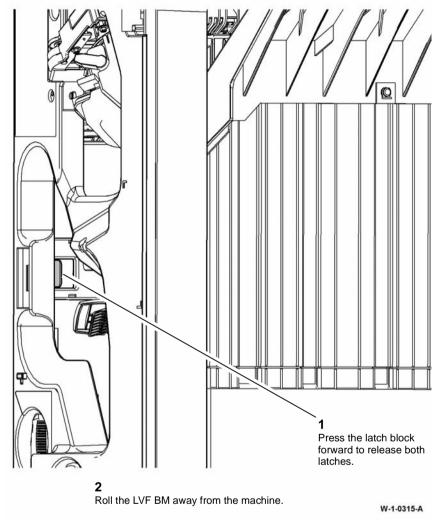


Figure 1 LVF BM link bracket assembly

Replacement

Align the LVF BM latches to the machine apertures then push the 2 units firmly together until they latch.

REP 12.14-150 LVF PWB

Parts List on PL 12.425

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

- Remove the LVF BM rear cover, REP 12.1-150.
- Disconnect all harness connectors from the LVF PWB.
- 3. Remove the 4 screws and release the 2 standoffs securing the LVF PWB.

Replacement

- 1. The replacement is the reverse of the removal procedure.
- If a new LVF PWB is being installed, read the NVM values from the LVF BM NVM label. Enter dC131 and enter the values from the label into locations 712-100, 712-101, 712-102 and 712-103.
- If a new LVF PWB is being installed, perform the 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

REP 12.15-150 Entry Guide Cover Assembly

Parts List on PL 12.320 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 2. Un-dock the LVF BM, REP 12.13-150.
- 3. Remove the upper entrance guide, REP 12.31-150.

4. Remove the entry guide cover, Figure 1.

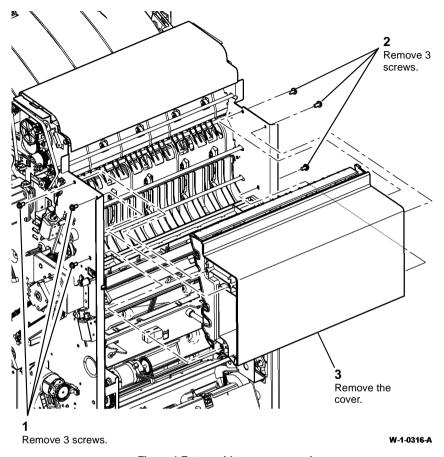


Figure 1 Entry guide cover removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.16-150 Docking Latch Assembly

Parts List on PL 12.325

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

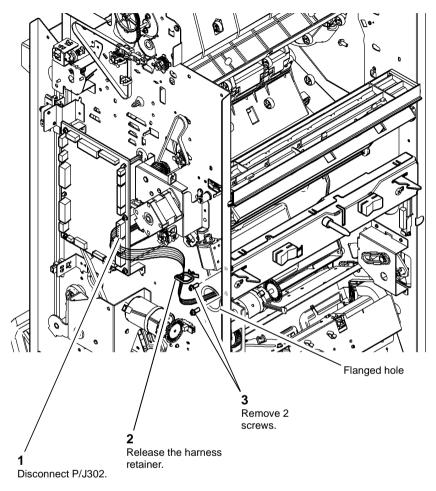
Take care during this procedure. Sharp edges may be present that can cause injury.

WARNING

Take care not to topple the LVF BM. The LVF BM is unstable when un-docked from the machine. Do not show the customer how to un-dock the LVF BM.

- Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 2. Un-dock the LVF BM, REP 12.13-150.

3. Prepare to remove the docking latch assembly, Figure 1.



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Figure 1 Prepare to remove the latch

4. Remove the docking latch assembly, Figure 2.

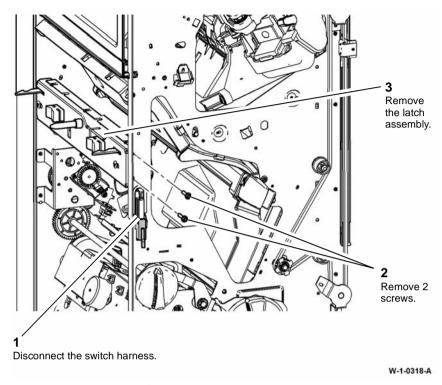
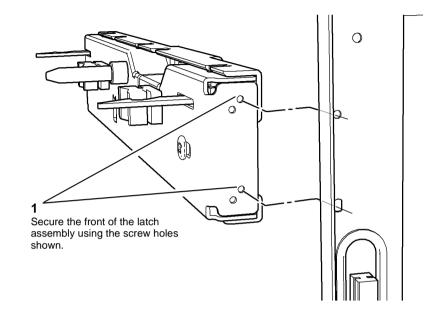


Figure 2 Latch assembly removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the 2 screws at the front locate in the correct holes, Figure 3.



W-1-1322-A

Figure 3 Latch assembly front screw holes



Ensure that the front and rear harness are routed through the flanged holes. Refer to Figure 1 and Figure 2.

REP 12.17-150 Ejector Belt

Parts List on PL 12.360

Removal

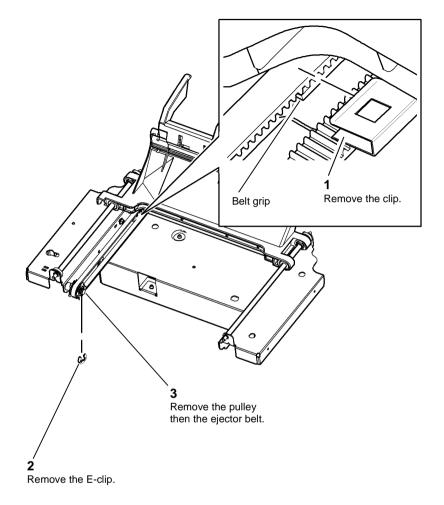


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the ejector assembly. Refer to REP 12.10-150.
- 2. Remove the ejector belt, Figure 1.



W-1-0319-A

Figure 1 Remove the ejector belt

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure that the ejector belt is correctly engaged with the belt grip on the ejector assembly before the clip is re-installed. Refer to Figure 1.

REP 12.18-150 BM Back Stop Motor

Parts List on PL 12.400

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly, REP 12.1-150.
- 3. Remove the back stop motor, Figure 1.

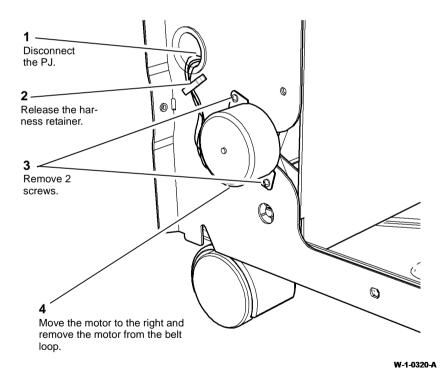
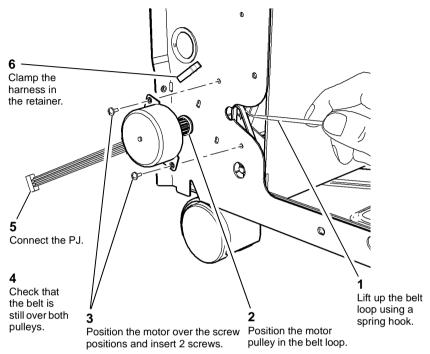


Figure 1 Back stop motor removal

Replacement

1. Install the back stop motor, Figure 2.



W-1-0321-A

Figure 2 Back stop motor installation

2. Reverse the removal procedure to install the remainder of the removed components.

REP 12.19-150 Back Stop Assembly, Left Guide Assembly and Static Eliminators

Parts List on PL 12.400 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the BM stapler assembly and booklet tamper assembly, REP 12.38-150.
- 4. Remove the crease roll motor and gearbox assembly, REP 12.25-150.
- 5. Remove the back stop motor, REP 12.18-150.

6. Prepare to remove the left guide assembly, Figure 1.

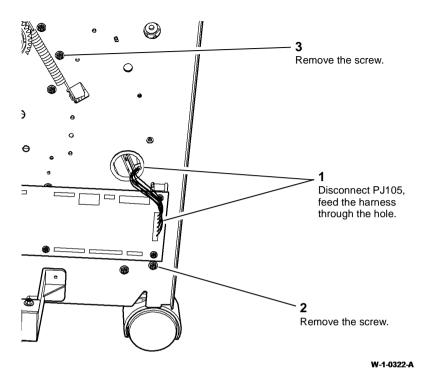


Figure 1 Preparation

7. Remove the left guide assembly, Figure 2.

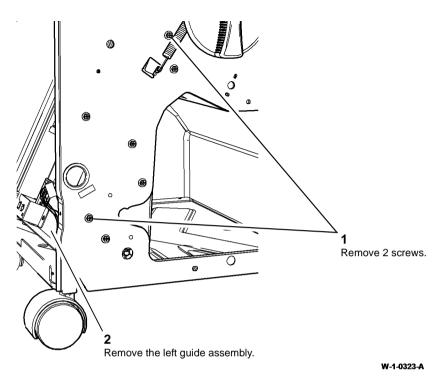
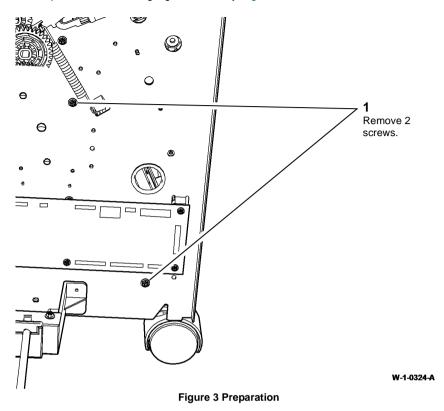


Figure 2 Left guide assembly removal

8. If only repairing the left guide assembly or static eliminators, go to Replacement steps 5 and 6.

9. Prepare to remove the right guide assembly, Figure 3.



10. Remove the right guide assembly, Figure 4.

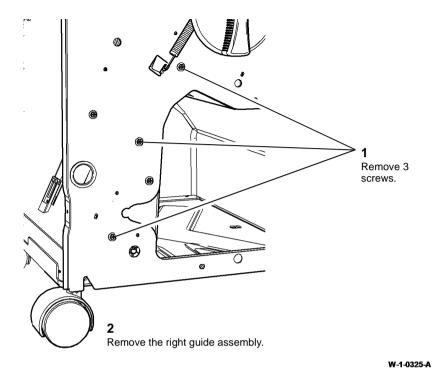


Figure 4 Right guide assembly removal

11. Remove the back stop assembly, Figure 5.

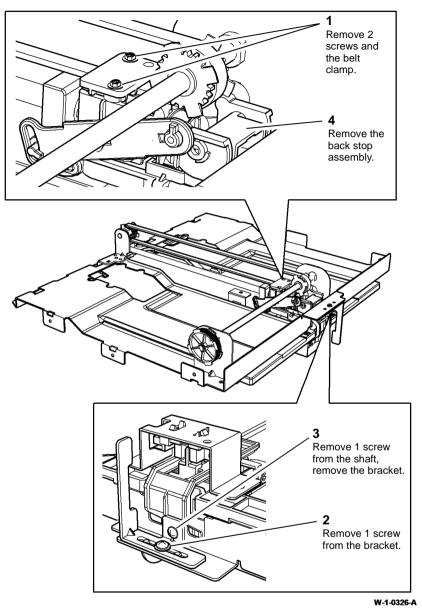


Figure 5 Back stop assembly removal

Replacement

- Refer to GP 6 before refitting the screws.
- Install the back stop assembly by reversing the steps in Figure 5. Ensure that the back stop is correctly located, Figure 6. Ensure that the belt clamp is correctly located, Figure

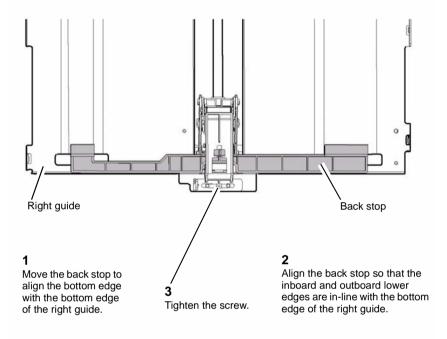


Figure 6 Bracket location

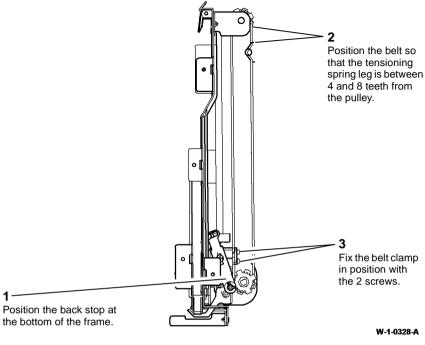


Figure 7 Belt clamp location

- Manually move the back stop to both extremes of travel. Ensure that the tensioner spring
 does not touch either pulley. If necessary re-position the belt clamp.
- Reverse the removal procedure to install the remainder of the removed components.
- 5. If a new sub plate, PL 12.400 Item 16 with static eliminator, PL 12.400 Item 17 attached is being installed, un-clip the old sub plate, clip on the new sub plate.
- If new static eliminators, PL 12.400 Item 15 are being installed, peel off the old static eliminators, then peel the backing paper from the new static eliminators and apply to the left guide assembly, press firmly in place.
- Perform ADJ 12.9-150 Booklet Skew.
- 8. Perform ADJ 12.5-150 Booklet Crease Position.

W-1-0327-A

REP 12.20-150 BM Guide Home Sensor and BM Back Stop Mid Home Sensor

Parts List on PL 12.400 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM back stop cover, REP 12.1-150.
- 3. Remove the sensors, Figure 1.

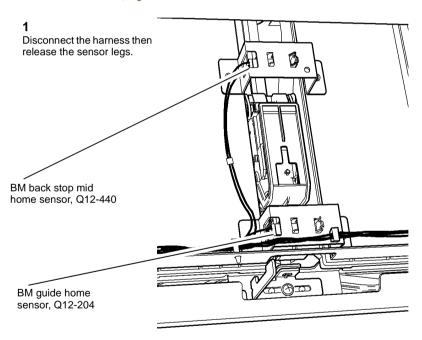


Figure 1 Sensors removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.21-150 Crease Blade Gearbox Assembly, Motor and Sensors

Parts List on PL 12.405

Removal

Use this procedure to remove the components that follow:

- Crease blade motor, MOT12-252.
- Crease blade gearbox assembly.
- Crease blade home sensor, Q12-214.
- Crease blade motor encoder sensor, Q12-215.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the LVF BM rear cover, REP 12.1-150.
- 2. Un-dock the LVF BM, REP 12.13-150.

3. Prepare to remove the crease blade motor and gearbox, Figure 1.

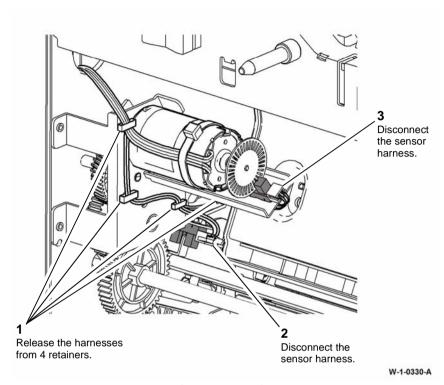


Figure 1 Preparation

4. Remove the crease blade gearbox assembly, Figure 2.

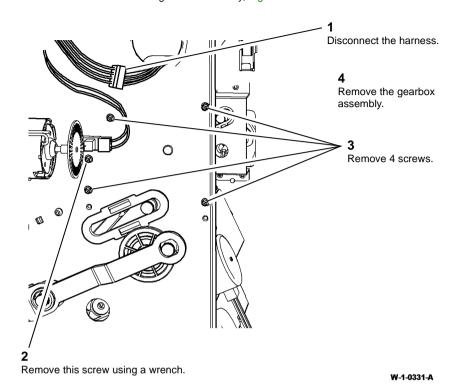


Figure 2 Gearbox assembly removal

- 5. Remove the crease blade motor, MOT12-252 by removing the 2 mounting screws.
- 6. Remove the crease blade home sensor, Q12-214 by releasing the sensor legs.
- 7. Remove the crease blade motor encoder sensor, Q12-215 by releasing the sensor legs.

Replacement

The replacement is the reverse of the removal procedure.

Parts List on PL 12.405 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the crease blade gearbox assembly, REP 12.21-150.
- 4. Remove the crease blade cranks, bearings, drive gear and handle, REP 12.23-150.
- 5. Prepare to remove the crease blade assembly, Figure 1.

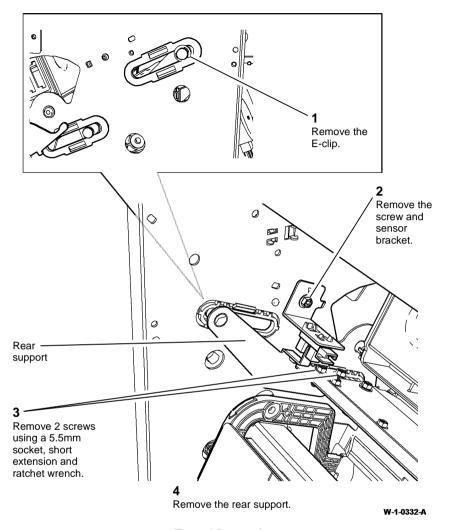


Figure 1 Preparation

6. Remove the crease blade assembly, Figure 2.

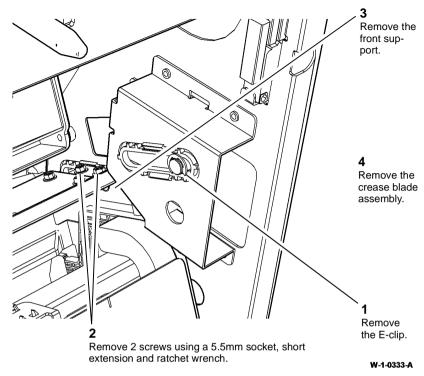


Figure 2 Crease blade assembly removal

7. Remove the rear crease blade guides, Figure 3.

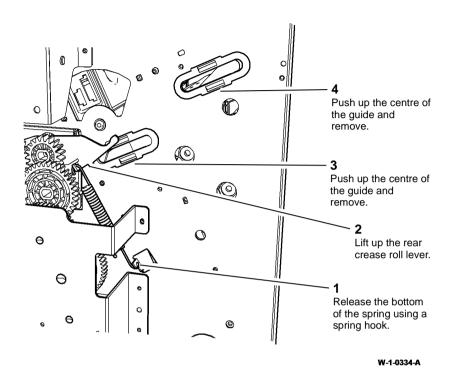


Figure 3 Rear guides removal

8. Remove the front crease blade guides, Figure 4.

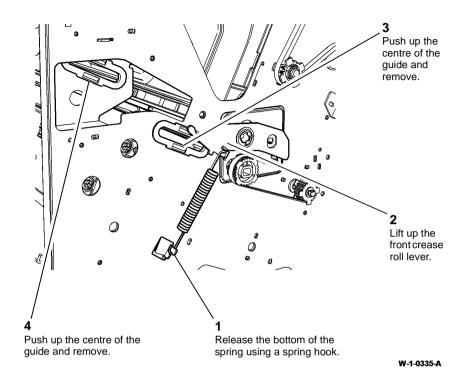


Figure 4 Front guides removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Perform ADJ 12.5-150 Booklet Crease Position.

REP 12.23-150 Crease Blade Cranks, Bearings, Gear and Handle

Parts List on PL 12.405

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the crease blade gearbox assembly, REP 12.21-150.

4. Remove the rear blade arm, Figure 1.

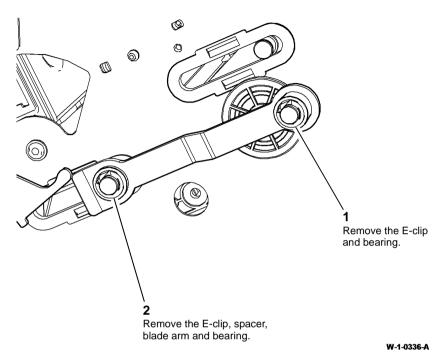


Figure 1 Rear blade arm removal

5. Remove the front blade arm, Figure 2.

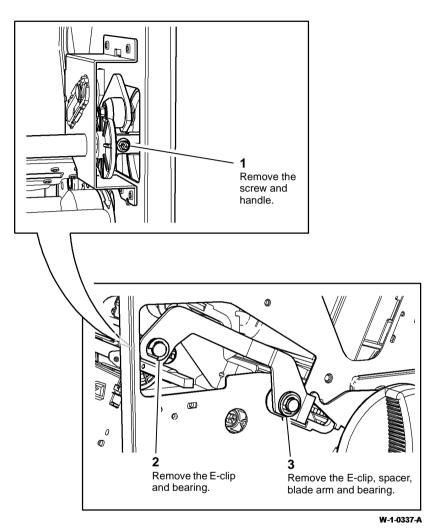


Figure 2 Front blade arm removal

6. Remove the crease blade shaft assembly, Figure 3.

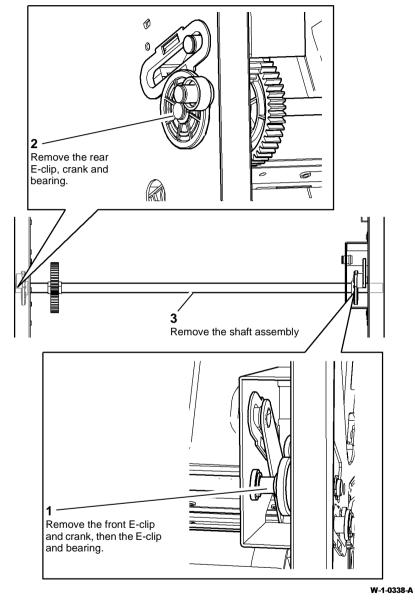


Figure 3 Crease blade shaft removal

7. Remove the crease blade drive gear, Figure 4.

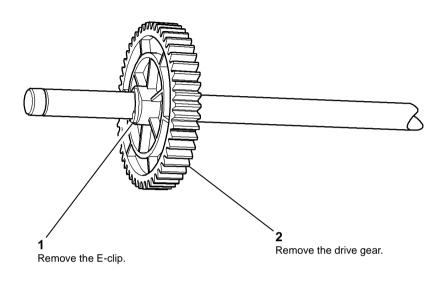


Figure 4 Drive gear removal

Replacement

The replacement is the reverse of the removal procedure.

W-1-0339-A

REP 12.24-150 Crease Rolls and Associated Components

Parts List on PL 12.410 Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.

Use this procedure to repair the components that follow:

- Crease roll handle pulley.
- · Crease roll handle.
- Exit roll belt.
- Upper crease roll.
- Lower crease roll.
- · Crease roll spring.
- · Crease roll bearing.
- · Front crease roll lever.
- · Rear crease roll lever.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the crease roll motor and gearbox assembly, REP 12.25-150.
- 2. Remove the crease roll gears 1 to 4, REP 12.26-150.
- 3. Un-dock the LVF BM, REP 12.13-150.
- 4. Remove the LVF BM front door cover assembly, REP 12.1-150.

5. Remove the rear crease roll lever, Figure 1.

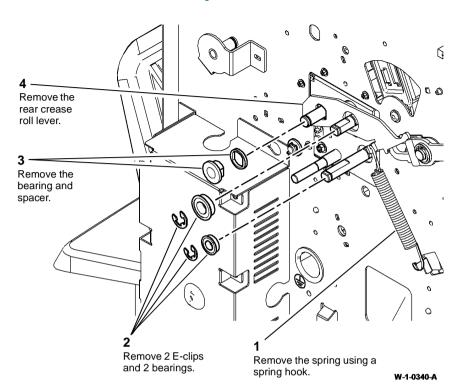


Figure 1 Rear lever removal

6. Remove the exit roll belt components, Figure 2.

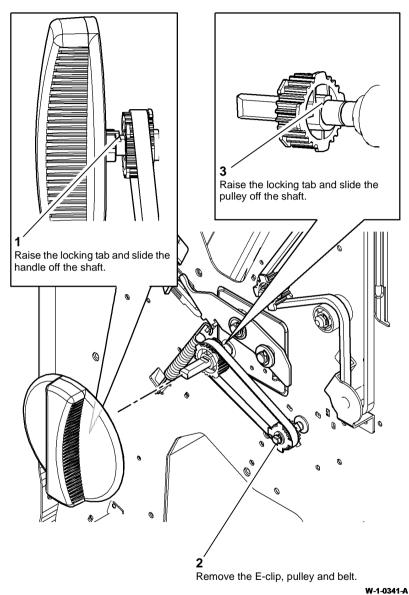


Figure 2 Exit roll belt removal

7. Remove the front crease roll lever, Figure 3.

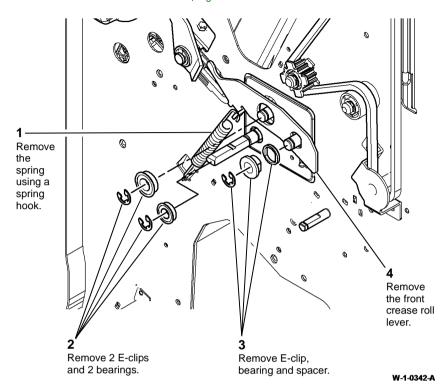


Figure 3 Front lever removal

- 8. Remove the bin 2 support, REP 12.44-150.
- 9. Remove the lower right cover, REP 12.45-150.
- 10. Remove the bail arm support bracket and bail arm. Refer to REP 12.29-150.
- 11. Remove the exit upper guide assembly, REP 12.28-150.

12. Remove the exit lower guide, Figure 4.

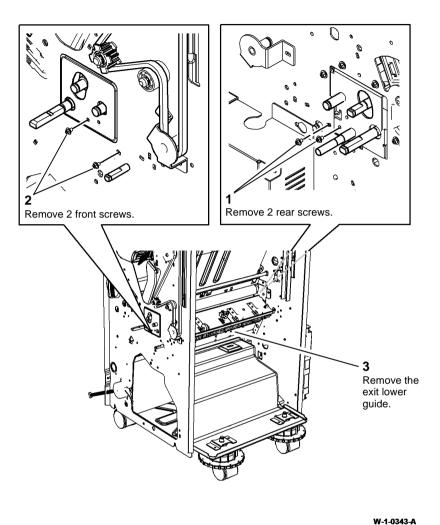


Figure 4 Exit lower guide removal

13. Remove the stacker tray drive and motor assembly. Refer to REP 12.5-150.

14. Prepare to release the booklet compiler tray, Figure 5.

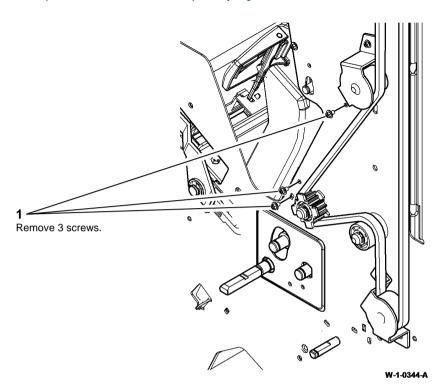


Figure 5 Preparation

15. Release the booklet compiler tray, Figure 6.

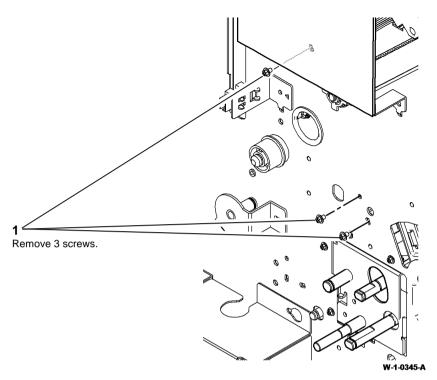


Figure 6 Tray release

16. Release the rear of the BM exit roll assembly, Figure 7.

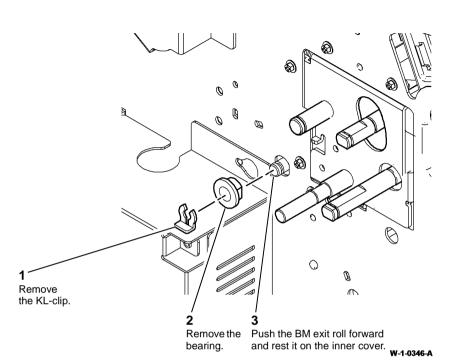
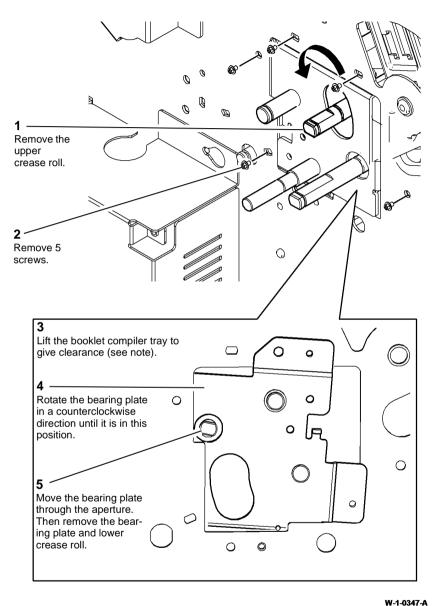


Figure 7 BM exit roll release

17. Remove the upper and lower crease roll, Figure 8.



99-7

Figure 8 Crease rolls removal

NOTE: The lifted booklet compiler tray can be temporarily supported by loosely holding it in place with a screw. Lift the tray as high as it can be raised. Align the lower screw hole with a suitable hole in the finisher frame.

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. When replacing the exit roll belt components, ensure the one-way clutch on the pulley is on the inside. Refer to Figure 2.

Parts List on PL 12.415 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the LVF BM top and rear covers, REP 12.1-150.
- 2. Remove the crease roll gearbox assembly, Figure 1.

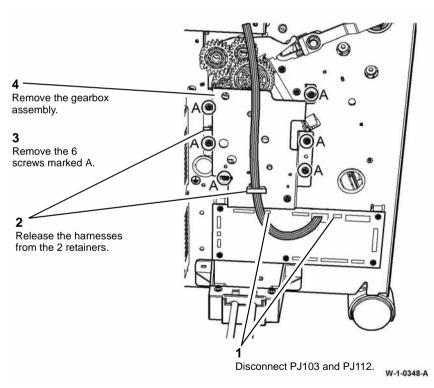


Figure 1 Gearbox removal

3. Remove the crease roll motor and sensor, Figure 2.

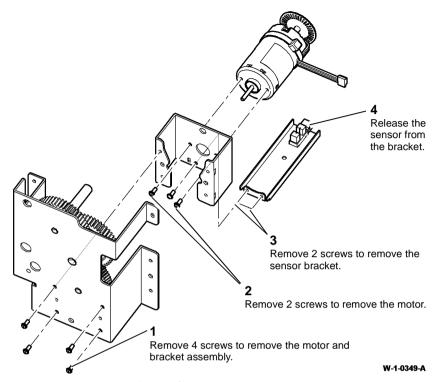


Figure 2 Crease roll motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.26-150 Crease Roll Gear Kit

Parts List on PL 12.415 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Remove the crease roll motor and gearbox, REP 12.25-150.
- 2. Remove the crease roll gears, Figure 1.

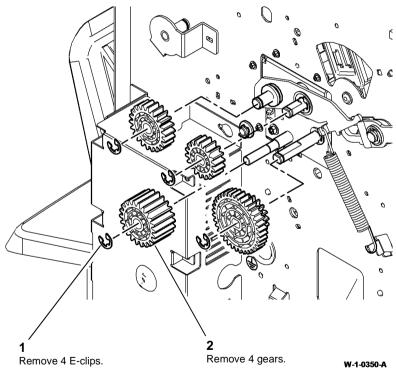


Figure 1 Gears removal

Replacement

- 1. Ensure the gears are located in their correct positions. Refer to Figure 1.
- 2. Reverse the removal procedure to replace the remainder of the components.

REP 12.27-150 BM Exit Roll, Belt, Pulley, Bush and Paddle

Parts List on PL 12.410 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bin 2 support, REP 12.44-150.
- 2. Remove the lower right cover, REP 12.45-150.

NOTE: If only the paddle is being repaired, do not perform removal steps 4 and 5.

3. Remove the exit roll paddle, Figure 1.

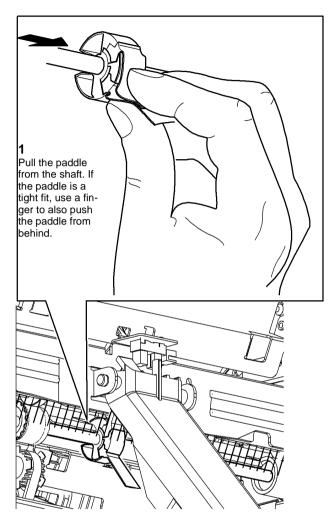
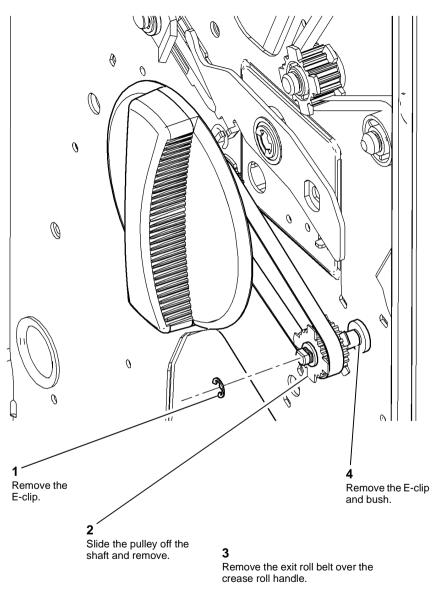


Figure 1 Exit roll paddle removal

4. Remove the belt pulley and bush, Figure 2.



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Figure 2 Belt pulley and bush removal

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5. Remove the BM exit roll, Figure 3.

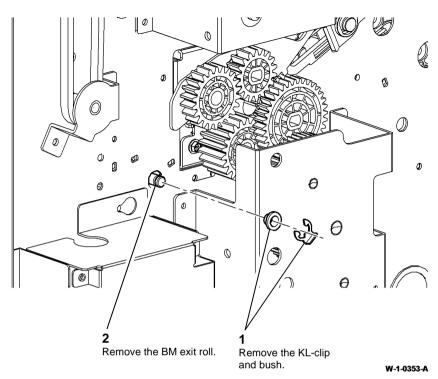


Figure 3 BM exit roll removal

Replacement

The replacement is the reverse of the removal procedure.

NOTE: When replacing the paddle ensure that it is correctly orientated, refer to Figure 1.

REP 12.28-150 BM Exit Upper Guide Assembly and Exit Sensor

Parts List on PL 12.420 Removal

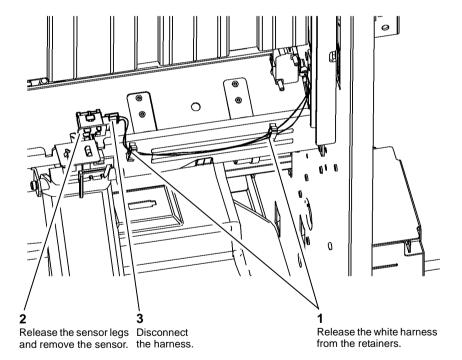


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the lower right cover, REP 12.45-150.
- 2. Remove the BM exit sensor, Figure 1.



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Figure 1 BM exit sensor removal

3. Remove the BM exit upper guide assembly, Figure 2.

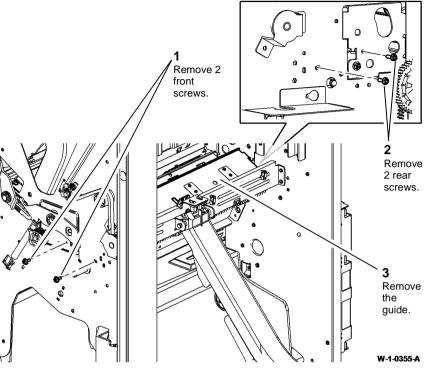


Figure 2 Upper guide removal

Replacement

The replacement is the reverse of the removal procedure.

NOTE: Ensure that the white harness is connected to the BM exit sensor and the black harness is connected to the bin 2 90% full sensor.

REP 12.29-150 BM Bail Arm Assembly, Spring, Roller and Bin 2 90% Full Sensor

Parts List on PL 12.420 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the lower right cover, REP 12.45-150.
- 2. Remove the bin 2 90% full sensor, Figure 1.

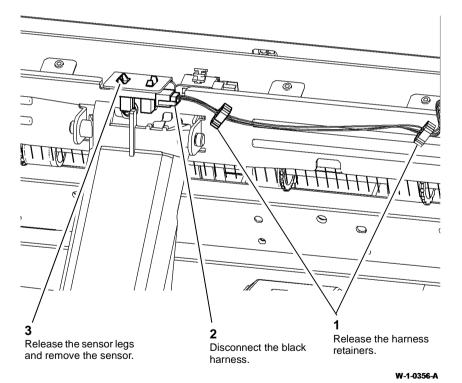


Figure 1 Sensor removal

3. Remove the bail arm support bracket and bail arm, Figure 2.

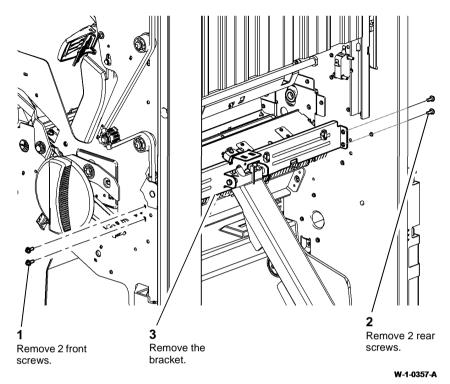


Figure 2 Support bracket removal

4. Remove the bail arm spring, Figure 3.

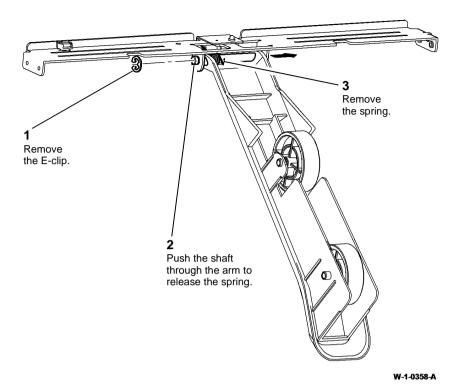


Figure 3 Bail arm spring removal

NOTE: The bail arm rollers can be removed with the bail arm installed on the LVF BM.

5. Remove the bail arm roller, Figure 4.

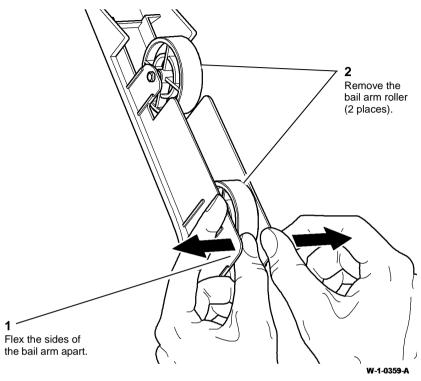


Figure 4 Bail arm roller removal

Replacement

The replacement is the reverse of the removal procedure.

NOTE: Ensure the white harness is connected to the BM exit sensor and the black harness is connected to the bin 2 90% full sensor.

REP 12.30-150 BM Compiler Guide Assembly, Flapper and Flapper Motor

Parts List on PL 12.390 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- Remove the LVF BM front door cover assembly, rear cover and LVF BM back stop cover, REP 12.1-150.
- 3. Disconnect the harnesses, Figure 1.

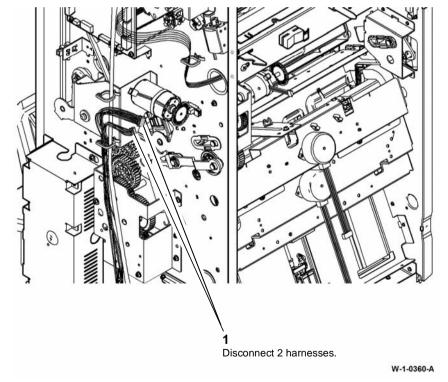


Figure 1 Disconnecting harnesses

4. Remove the BM compiler guide assembly, Figure 2.

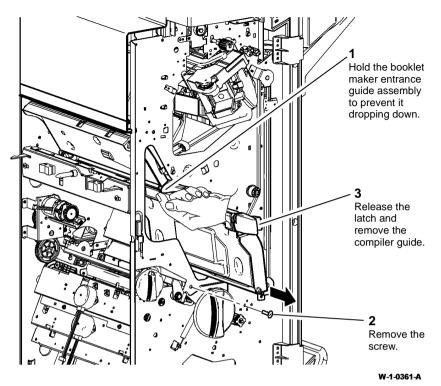
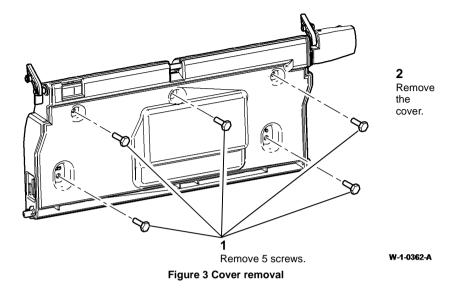


Figure 2 Compiler guide removal

5. Remove the BM compiler guide assembly cover, Figure 3.



6. Remove the BM flapper motor assembly, Figure 4.

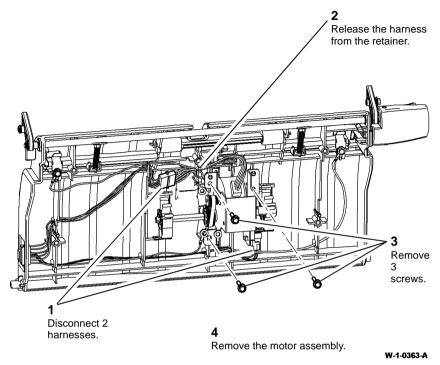


Figure 4 Motor assembly removal

7. Remove the BM compiler flappers, Figure 5.

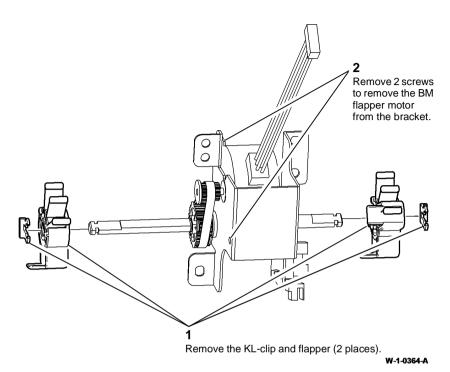


Figure 5 BM compiler flapper removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

NOTE: Ensure that the flappers are orientated correctly. Refer to Figure 5.

REP 12.31-150 BM Upper Entrance Guide and Finisher Entry Sensor

Parts List on PL 12.385 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the upper entrance guide, Figure 1.

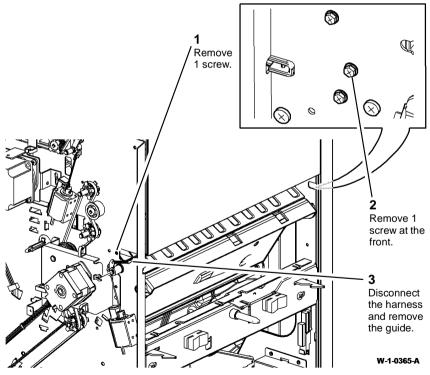


Figure 1 Upper entrance guide removal

4. Remove the finisher entry sensor, Q12-077 by disconnecting the harness then releasing the holding arms.

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.32-150 BM Lower Guide, BM Entry Sensor and BM Entrance Guide Assembly

Parts List on PL 12.385 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the BM entrance guide assembly, Figure 1.

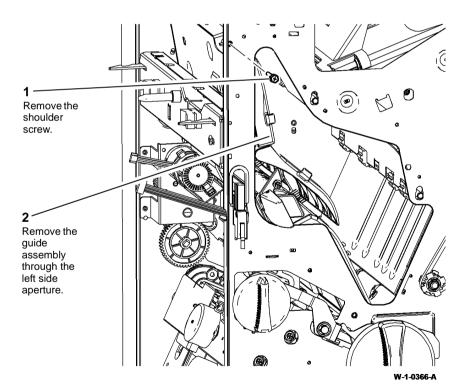


Figure 1 Entrance guide removal

- 4. Remove the BM compiler guide assembly, REP 12.30-150.
- 5. Prepare to remove the BM lower guide, Figure 2.

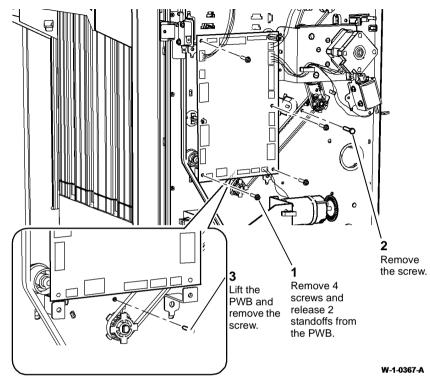


Figure 2 Preparation

6. Remove the BM lower guide, Figure 3.

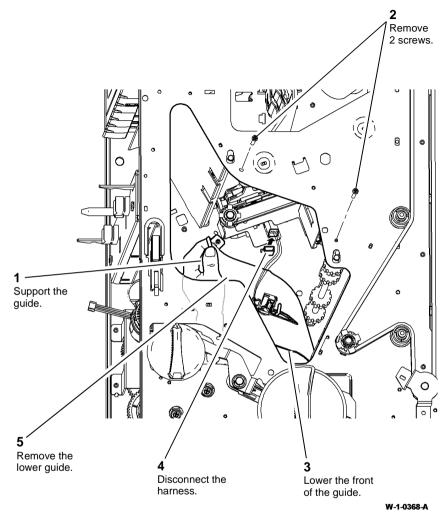


Figure 3 BM lower guide removal

7. Remove the BM entry sensor, Q12-089 by disconnecting the harness and then releasing the sensor legs from the guide.

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.33-150 Booklet Diverter Gate

Parts List on PL 12.385

Removal

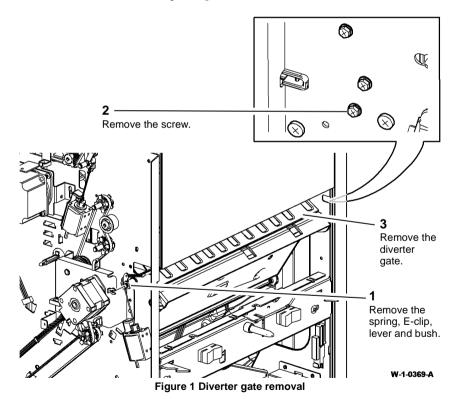


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the upper entrance guide, REP 12.31-150.
- 4. Remove the booklet diverter gate, Figure 1.



Replacement

The replacement is the reverse of the removal procedure.

REP 12.34-150 BM 1st Feed Roll Assembly, Compiler Entrance Drive Belt 1 and 2

Parts List on PL 12.385, PL 12.350 Removal

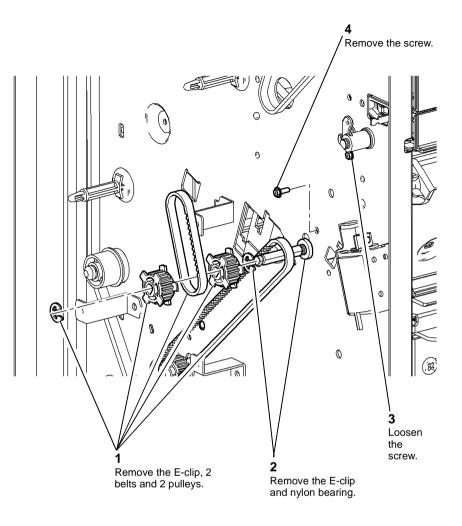


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the transport motor 1 and gearbox assembly, REP 12.2-150.
- 4. Remove the rear components, Figure 1.



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Figure 1 Rear components removal

5. Open the BM entrance guide assembly, PL 12.385 Item 3.

6. Remove the BM 1st feed roll assembly, Figure 2.

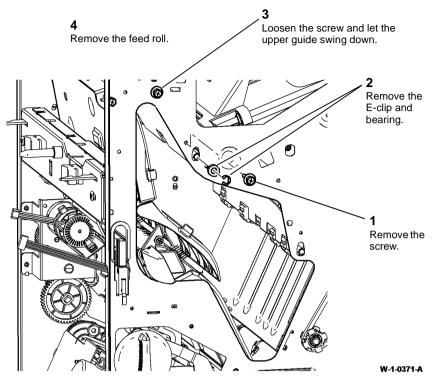


Figure 2 1st feed roll removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.35-150 BM 2nd Feed Roll Assembly

Parts List on PL 12.385 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the rear components, Figure 1.

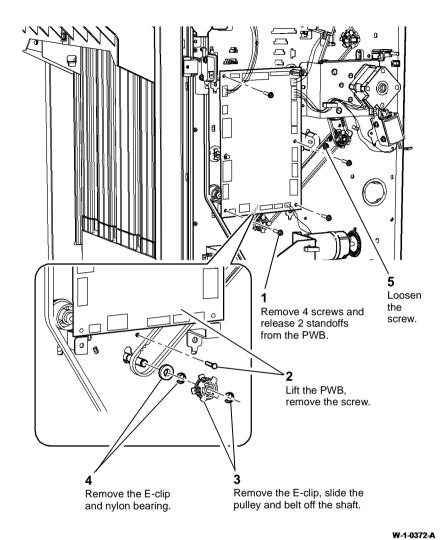
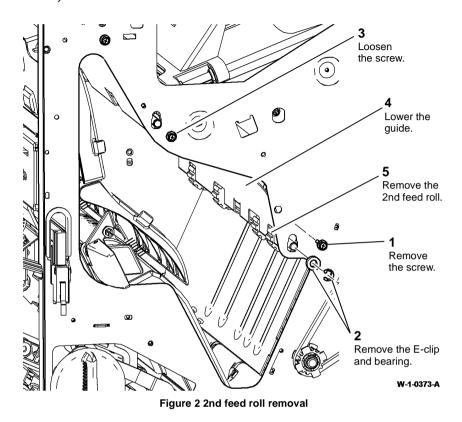


Figure 1 Rear components removal

4. Open the BM entrance guide assembly, PL 12.385 Item 3.

5. Remove the BM 2nd feed roll assembly, Figure 2.

NOTE: Take care when lowering the guide in Figure 2, so that the harness to the BM entry sensor does not become disconnected.



Replacement

The replacement is the reverse of the removal procedure.

REP 12.36-150 LVF BM PWB

Parts List on PL 12.425 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Figure 1 ESD Symbol



Certain components in this product are susceptible to damage from electrostatic discharge. Observe all ESD procedures to avoid component damage.

- Remove the LVF BM rear cover, REP 12.1-150.
- 2. Disconnect all harness connectors from the LVF BM PWB.
- Remove the 6 screws securing the LVF PWB.

Replacement

NOTE: Before replacing the LVF BM rear cover, perform 312F-150 LVF PWB and LVF BM PWB DIP Switch Settings RAP.

The replacement is the reverse of the removal procedure.

REP 12.37-150 BM Staple Cartridge Assembly

Parts List on PL 12.395 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the right guide assembly. Refer to REP 12.19-150.
- 2. Prepare to remove the BM staple cartridge assembly, Figure 1.

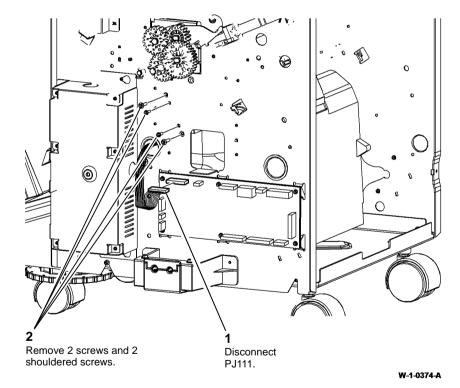


Figure 1 Preparation

3. Remove the BM staple cartridge assembly, Figure 2.

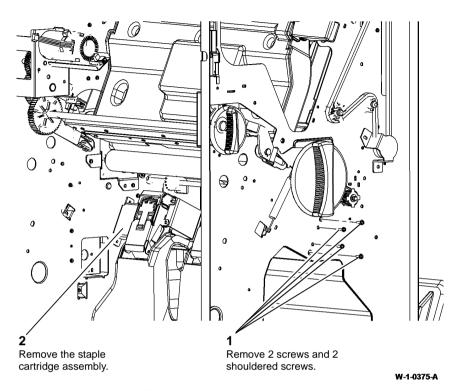


Figure 2 BM staple cartridge removal

Replacement

- I. Insert and tighten the 4 shouldered screws, Figure 1 and Figure 2.
- 2. The remainder of the replacement is the reverse of the removal procedure.

REP 12.38-150 BM Stapler Assembly and Booklet Tamper Assembly

Parts List on PL 12.395 and PL 12.380

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- Remove the LVF BM front door cover assembly, rear cover and LVF BM back stop cover, REP 12.1-150.

3. Prepare to remove the BM stapler assembly and booklet tamper assembly, Figure 1.

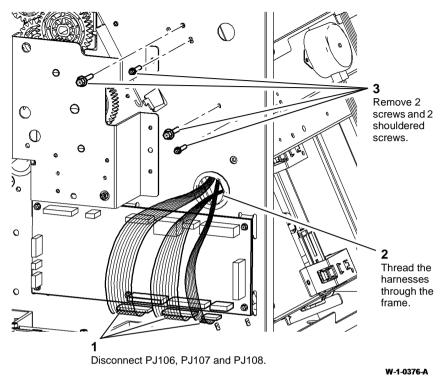


Figure 1 Preparation

4. Remove the BM stapler assembly and booklet tamper assembly, Figure 2.

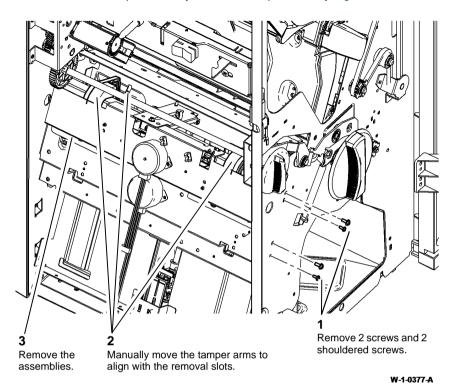


Figure 2 Assemblies removal

5. Separate the BM stapler assembly from the booklet tamper assembly, Figure 3.

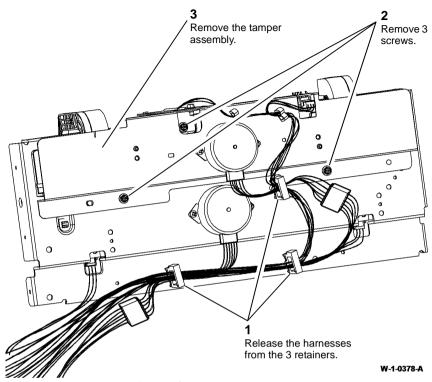


Figure 3 Stapler assembly removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- When installing the BM stapler assembly and booklet tamper assembly, first insert and tighten the 4 shouldered screws, Figure 1 and Figure 2, then continue with the remainder of the installation.
- 3. Perform ADJ 12.6-150 Booklet Staple Position.

REP 12.39-150 BM Staple Cartridge LED

Parts List on PL 12.395

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bin 2 support, REP 12.44-150.
- 2. Remove the BM staple cartridge LED, Figure 1.

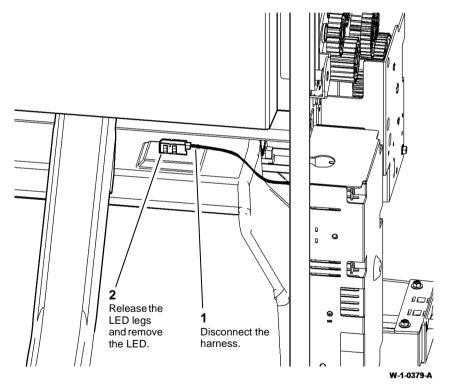


Figure 1 Staple cartridge LED removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.40-150 BM Tamper 1 Home Sensor

Parts List on PL 12.380 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM LVF BM back stop cover, REP 12.1-150.
- 3. Remove the BM tamper 1 home sensor, Figure 1.

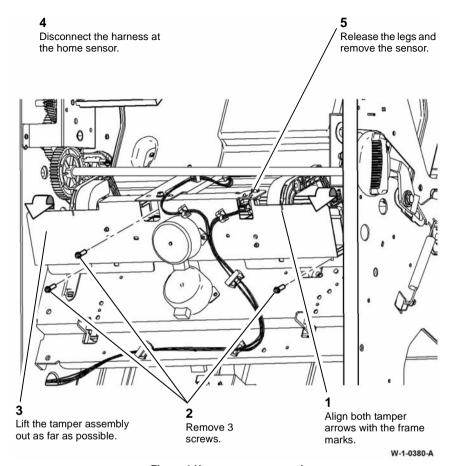


Figure 1 Home sensor removal

Replacement

The replacement is the reverse of the removal procedure.

Parts List on PL 12.380 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM. REP 12.13-150.
- 2. Remove the LVF BM LVF BM back stop cover, REP 12.1-150.
- 3. Prepare to remove the booklet tamper motor, Figure 1.

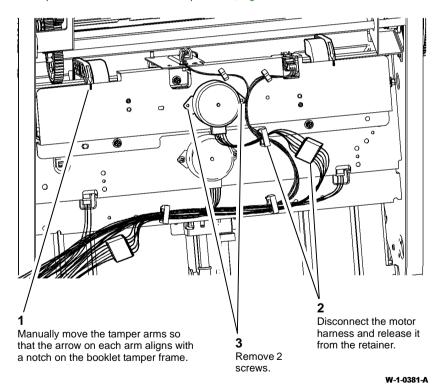
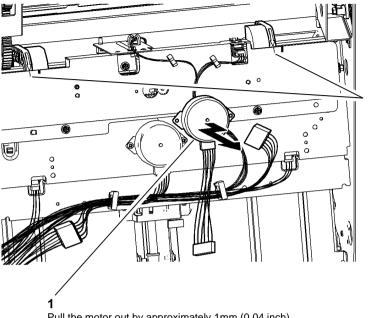


Figure 1 Preparation

4. Remove the booklet tamper motor, Figure 2.



Without moving the tamper arms, place a pencil mark on the booklet tamper frame in line with each tamper arm arrow.

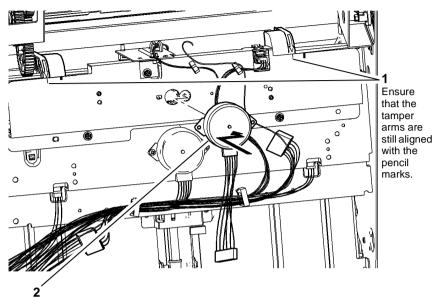
Pull the motor out by approximately 1mm (0.04 inch), slide the motor approximately 12mm (0.5 inch) to the rear, pull the motor out to remove.

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Figure 2 Tamper motor removal

Replacement

1. Prepare to install the booklet tamper motor, Figure 3.

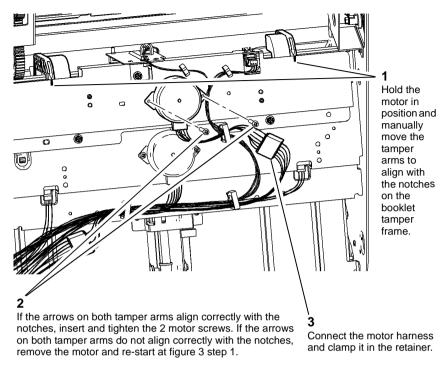


Carefully insert the motor to engage the motor pinion with the 2 tamper racks. When the motor is engaged, slide it to the front approximately 12mm (0.5 inch) to align with the screw holes. Push the motor in by approximately 1mm (0.04 inch) to locate it fully.

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Figure 3 Preparation

2. Install the booklet tamper motor, Figure 4.



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Figure 4 Tamper motor installation

- 3. Install the LVF BM LVF BM back stop cover.
- 4. Dock the LVF BM, REP 12.13-150.

REP 12.42-150 Booklet Tamper Arms

Parts List on PL 12.380 Removal

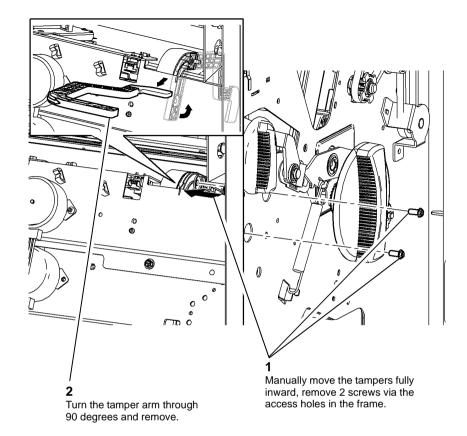


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove the front booklet tamper arm, Figure 1.



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Figure 1 Front tamper arm removal

4. Remove the rear booklet tamper arm, Figure 2.

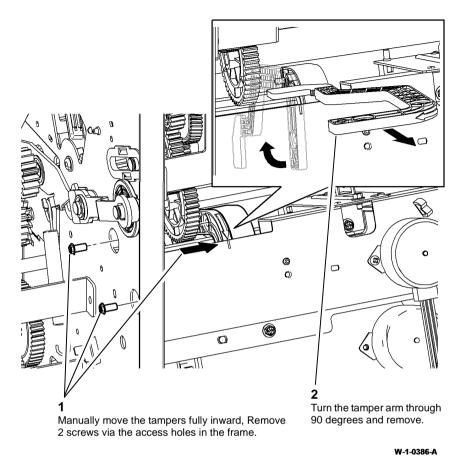


Figure 2 Rear tamper arm removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.43-150 BM Paper Present Sensor

Parts List on PL 12.380 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the sensor bracket, Figure 1.

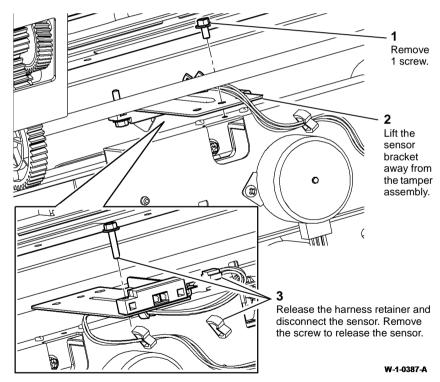


Figure 1 Sensor bracket removal

Replacement

The replacement is the reverse of the removal procedure.

Parts List on PL 12.410 Removal

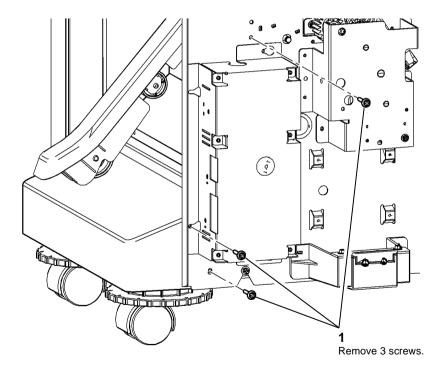


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly and rear cover, REP 12.1-150.
- 3. Remove bin 2, PL 12.320 Item 18.
- 4. Prepare to remove the bin 2 support, Figure 1.



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Figure 1 Preparation

5. Remove the bin 2 support, Figure 2.

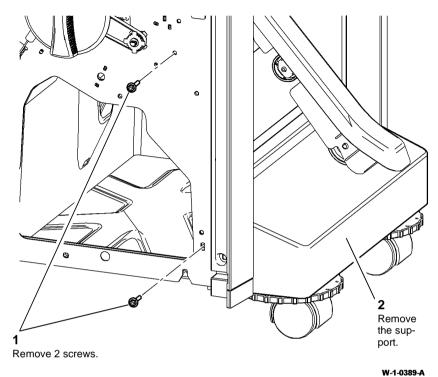


Figure 2 Bin 2 support removal

Replacement

- Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

REP 12.45-150 Lower Right Cover and Bin 1 Lower Limit Switch

Parts List on PL 12.320 and PL 12.345 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bin 2 support, REP 12.44-150.
- 2. Prepare to remove the lower right cover, Figure 1.

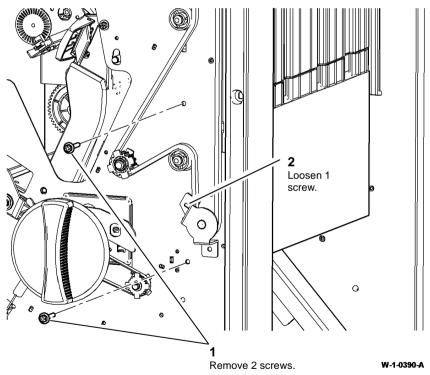


Figure 1 Preparation

3. Remove the lower right cover and bin 1 lower limit switch, Figure 2.

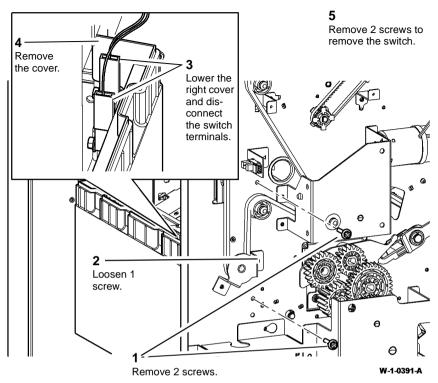


Figure 2 Cover and switch removal

Replacement

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- Refer to GP 6 before refitting the screws.
- 2. The replacement is the reverse of the removal procedure.

Parts List on PL 12.370 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVF BM front door cover assembly, rear cover and top cover, REP 12.1-150.
- 3. Remove the hole punch motor assembly, REP 12.7-150.
- 4. Prepare to remove the paper guide Figure 1.

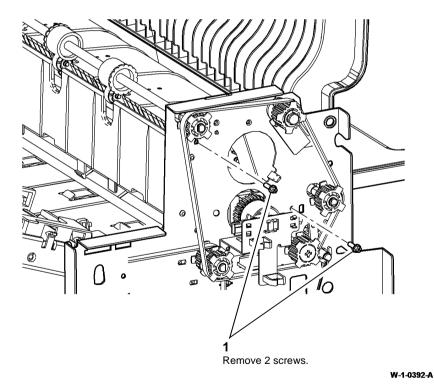


Figure 1 Preparation

5. Remove the paper guide and top tray exit sensor, Q12-107, Figure 2.

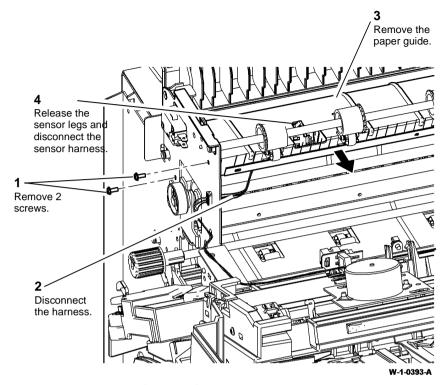


Figure 2 Guide and sensor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 12.47-150 Lower Right Paper Guide

Parts List on PL 12.375 Removal

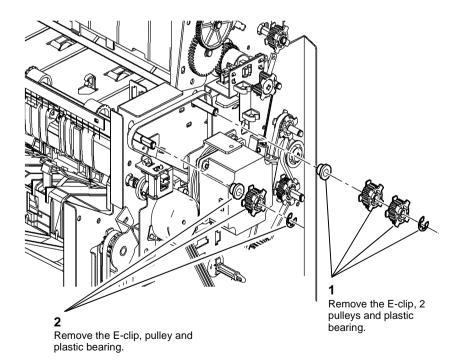


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Un-dock the LVF BM, REP 12.13-150.
- 2. Remove the LVFBM top cover, rear cover and front door cover assembly, REP 12.1-150.
- 3. Remove the tamper assembly, REP 12.6-150.
- 4. Remove the paper output drive belt, REP 12.4-150.
- 5. Prepare to remove the drive shafts Figure 1.



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Figure 1 Preparation

6. Remove the ejector drive shaft, Figure 2.

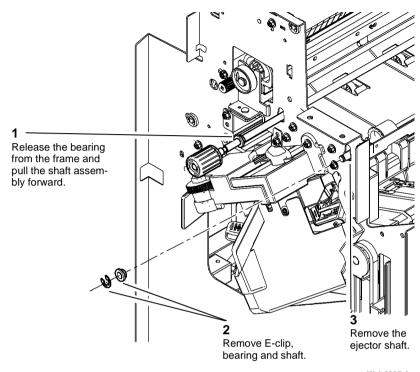


Figure 2 Ejector shaft removal

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7. Remove the drive shaft, Figure 3.

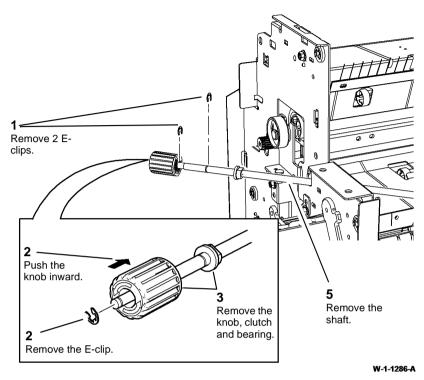


Figure 3 Drive shaft removal

8. Prepare to remove the upper right paper guide, Figure 4.

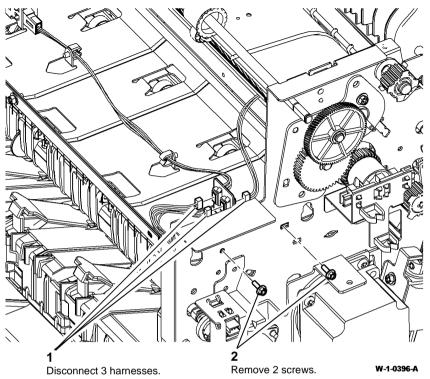


Figure 4 Preparation

- 9. Remove the upper right paper guide, Figure 5.
 - 1 Remove 2 screws.

Figure 5 Upper right guide removal

10. Prepare to remove the lower right paper guide, Figure 6.

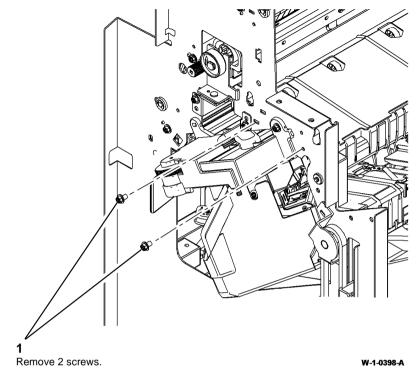


Figure 6 Preparation

W-1-0397-A

11. Remove the lower right paper guide, Figure 7.

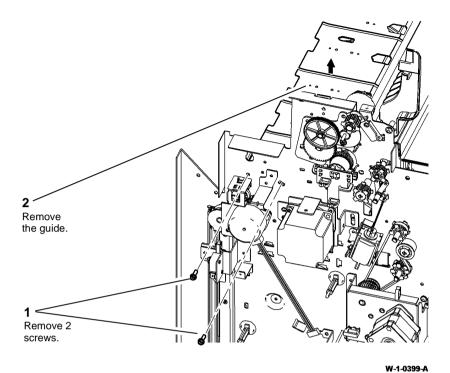


Figure 7 Lower right guide removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- When replacing the jam clearance knob, ensure the one-way clutch is installed in the correct orientation, Figure 8.

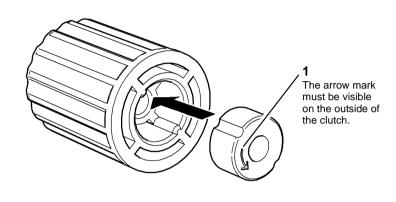


Figure 8 Clutch orientation

W-1-1287-A

REP 12.48-150 BM Staple Head and Sensors

Parts List on PL 12.395

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the BM stapler assembly and booklet tamper assembly, REP 12.38-150.
- If required, remove the BM staple unit home sensor, Q12-438 or staple unit away sensor, Q12-439, Figure 1.

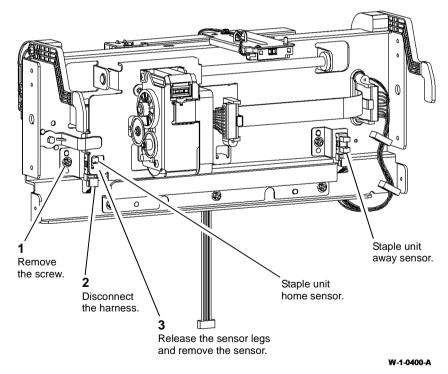


Figure 1 Sensor removal

3. Prepare to remove the stapler carriage assembly, Figure 2.

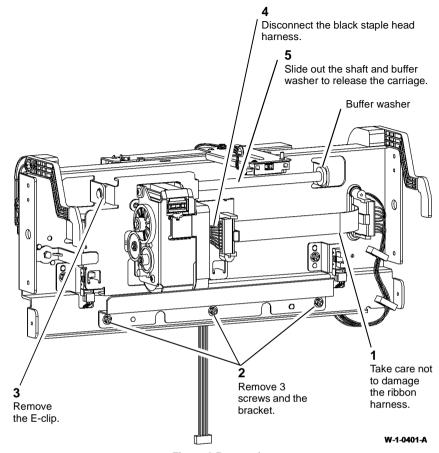


Figure 2 Preparation

4. Remove the stapler carriage assembly, Figure 3.

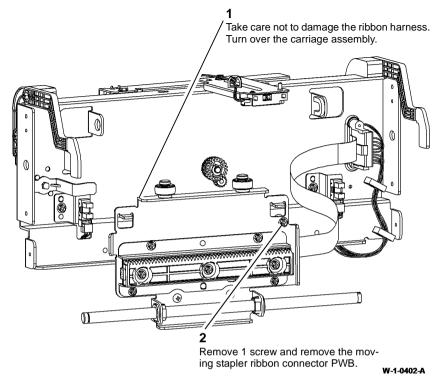


Figure 3 Carriage removal

5. Remove the rack bracket, Figure 4.

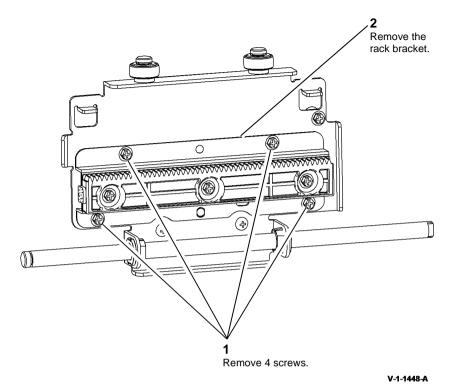


Figure 4 Rack bracket removal

6. Remove the BM stapler head assembly, Figure 5.

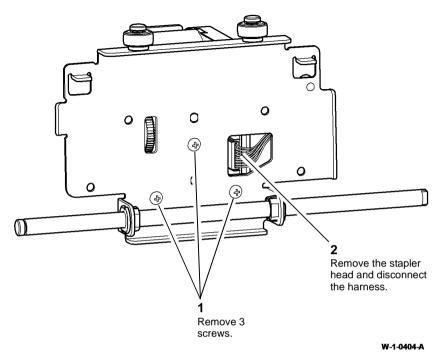


Figure 5 Head assembly removal

Replacement

- 1. Refer to GP 6 before refitting the screws.
- 2. Ensure that the buffer washer is installed in the correct position, refer to Figure 2.
- 3. The replacement is the reverse of the removal procedure.
- 4. Perform the adjustments that follow:
 - ADJ 12.7-150 Booklet Stapler Anvil Position Front
 - ADJ 12.8-150 Booklet Stapler Anvil Position Rear.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Switch off the machine, GP 14.
- 2. Disconnect the telephone cable(s), PL 20.05 Item 3.
- 3. Remove the fax module (2 thumb screws).
- 4. Figure 1, remove the fax PWB.

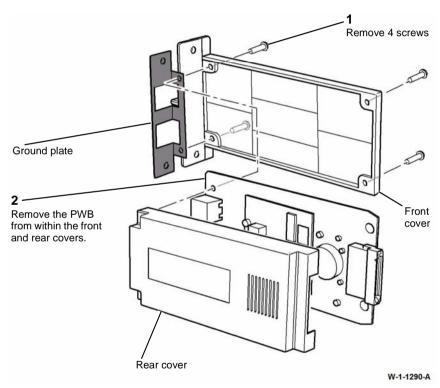


Figure 1 Fax PWB removal

Replacement



Ensure that the ground plate is located between the Fax PWB and the front cover. The ground plate provides a ground path for lightning strikes. Electricity can cause death or injury.

Replacement is the reverse of the removal procedure.

REP 28.1 Covers

Parts List on PL 10.15, PL 28.10 and PL 80.10.

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Perform the relevant procedure:

- Backplate.
- Left Frame Cover and Centre Exit Cover.
- Centre Output Tray.

Backplate

Perform the steps that follow:

- 1. Remove the upper right cover, PL 28.10 Item 3.
- 2. Remove the horizontal transport, REP 10.6.
- 3. Remove the backplate, PL 10.15 Item 12.

Left Frame Cover and Centre Exit Cover

Perform the steps that follow:

- 1. Open the front door.
- 2. Open the left door.
- 3. Raise the SPDH, PL 5.10 Item 9.
- 4. Prepare to remove the left frame cover, Figure 1.

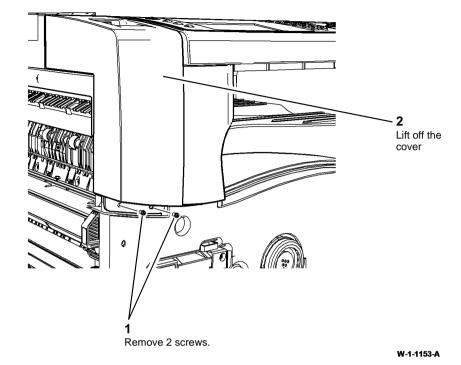
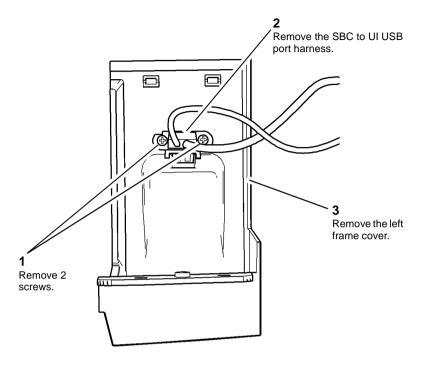


Figure 1 Preparation

5. Remove the left frame cover, Figure 2.



W-1-1154-A

Figure 2 Left frame cover removal

6. Remove the centre exit cover, PL 28.10 Item 8 (2 screws), to the right of the machine.

Centre Output Tray

Perform the steps that follow:

- 1. Open the front door.
- 2. Open the left door.
- 3. Remove the fuser module, PL 10.8 Item 1.

4. Prepare to remove the centre output tray, Figure 3.

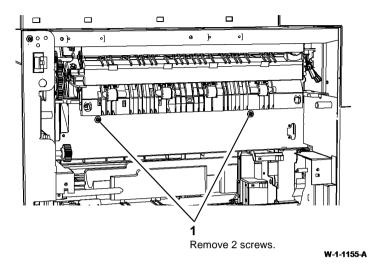


Figure 3 Preparation

- 5. Remove the upper right cover, PL 28.10 Item 3.
- 6. Remove the centre output tray, PL 28.10 Item 9.

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. When reinstalling the centre output tray, ensure that:
 - the bail arm assembly, PL 10.11 Item 25, is correctly located above, and clear of the centre output tray.
 - the diverter output guides, PL 10.10 Item 3 are correctly located.

3. When reinstalling the centre exit cover, take care not to disengage the drive belt, Figure 4.

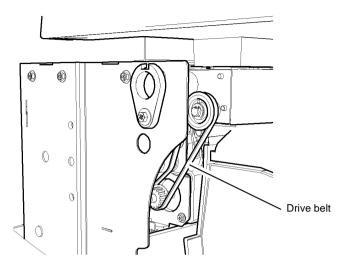


Figure 4 Drive belt

REP 28.2 Rear Cover

Parts List on PL 28.10

Removal

W-1-1337-A



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Disconnect the components that follow, as necessary:
 - Network cable.
 - Wireless network adaptor, PL 3.22 Item 20.
 - Telephone cable.
 - FDI harness.
 - Finisher communication harness.
- 2. Remove the rear cover, Figure 1.

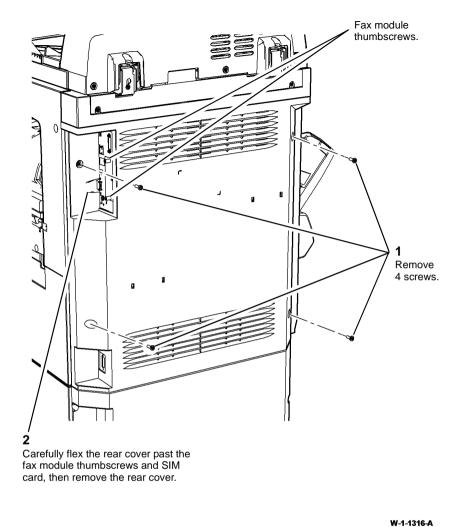


Figure 1 Removal

Replacement

1. Re-install the rear cover, Figure 2.

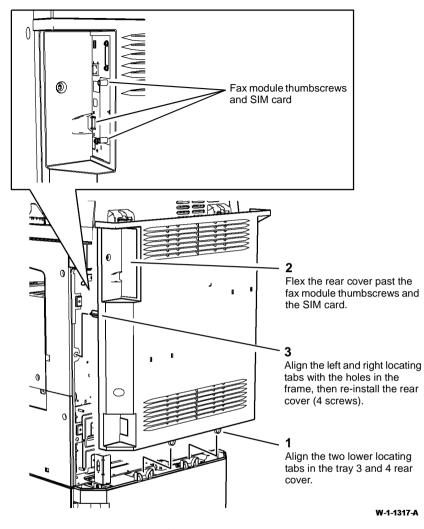


Figure 2 Replacement

- 2. Re-connect the components that follow, as necessary:
 - Network cable.
 - Wireless network adaptor, PL 3.22 Item 20.
 - Telephone cable.
 - FDI harness.
 - · Finisher communication harness.

REP 40.1 Main Drive Module

Parts List on PL 40.15

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the fuser, PL 10.8 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Remove the rear cover, REP 28.2.
- 4. Prepare to remove the main drive module, Figure 1.

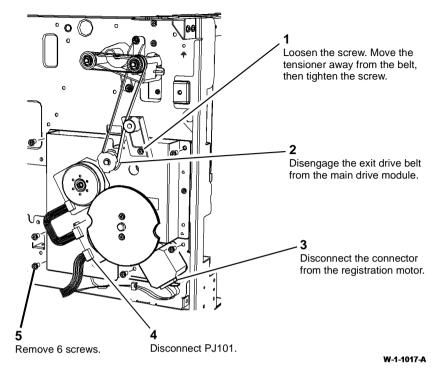


Figure 1 Preparation



Take care not to damage harnesses when removing the main drive module.

5. Remove the main drive module. Refer to Figure 2.

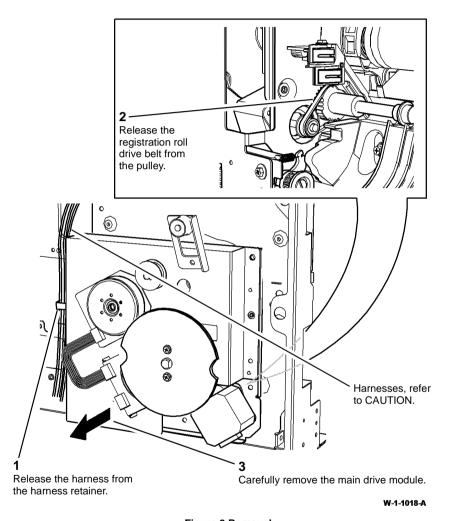


Figure 2 Removal

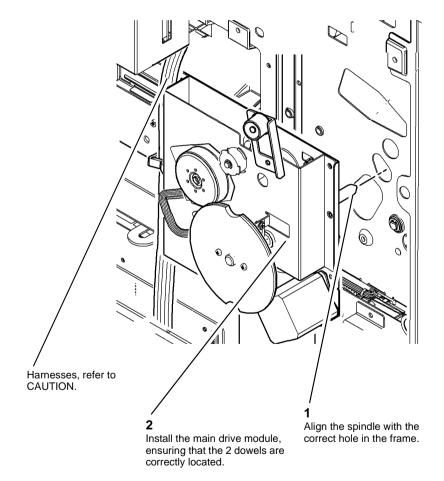
Replacement



Do not trap the harnesses when the main drives module is installed.

Perform the steps that follow:

- Check that the gears are adequately greased, if necessary perform the Main Drive Module procedure of ADJ 40.1.
- 2. Install the main drive module, Figure 3.



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Figure 3 Replacement



To ensure optimum image quality, ensure that the securing screws are tightened in the order given in Figure 4.

3. Figure 4, secure the drives module to the machine frame.

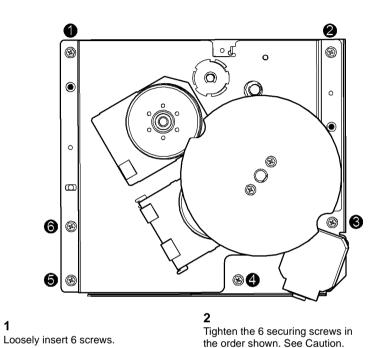


Figure 4 Screw tightening sequence

- The remainder of the replacement is the reverse of the removal procedure.
- Re-fit the registration roll drive belt to the pulley.

1

REP 40.2 Registration Motor

Parts List on PL 40.15

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the main drive module, REP 40.1.
- 2. Remove 2 screws, then the registration motor, PL 40.15 Item 6.

Replacement

W-1-1451-A

Replacement is the reverse of the removal procedure.

REP 60.1 Scanner Rear Cover and Faraday Shield

Parts List on PL 60.15, PL 60.20

Removal

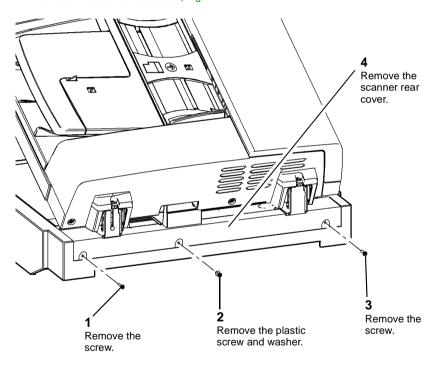


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Raise the SPDH, PL 5.10 Item 9.
- 2. Remove the scanner rear cover, Figure 1.



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Figure 1 Scanner rear cover

3. Remove the Faraday shield, Figure 2.

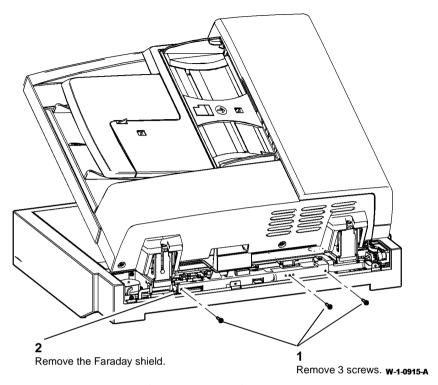


Figure 2 Faraday shield removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Ensure the Faraday shield is positioned under the 4 hooks formed in the scanner PWB cover, PL 60.20 Item 6.



Do not overtighten the plastic screw as it is fragile,

3. In order to control ESD, ensure the scanner rear cover central fixing screw and washer are of the plastic type, Figure 1.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Use safe handling procedures, GP 16 when removing the module. The module is heavy.

- 1. If a finisher is installed, un-dock the finisher. Refer to:
 - REP 12.13-110 LCSS Un-Docking.
 - REP 12.13-150 LVF BM Un-Docking.
- 2. Position the machine to allow for the minimum safety work space GP 21.
- 3. Ensure both of the front castors are locked, PL 70.26 Item 3.
- 4. Remove the SPDH, REP 5.19.
- 5. Remove the upper right cover, PL 28.10 Item 3.
- 6. Remove the rear cover, REP 28.2.
- Remove the 2 securing screws from the left frame cover, PL 28.10 Item 6. Allow the cover to hang from the harness.
- 8. Prepare to remove the scanner module, Figure 1.

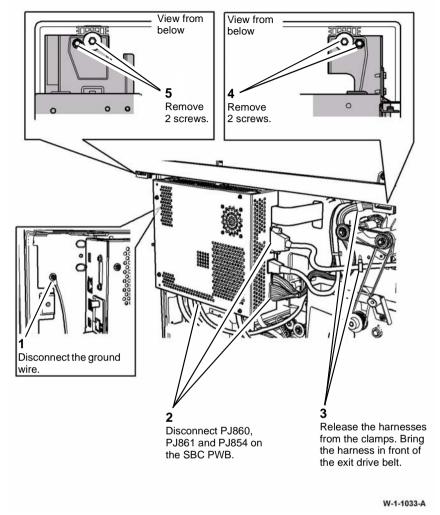


Figure 1 Scanner removal preparation

9. Lock the scan carriage.



Take care not to damage the scanner harnesses when removing the scanner.

10. Remove the scanner module, Figure 2.

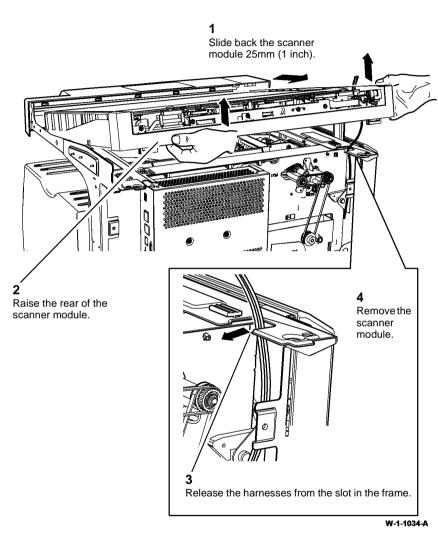


Figure 2 Scanner removal

Replacement

1. Holding the scanner as shown, replace the scanner, Figure 3.

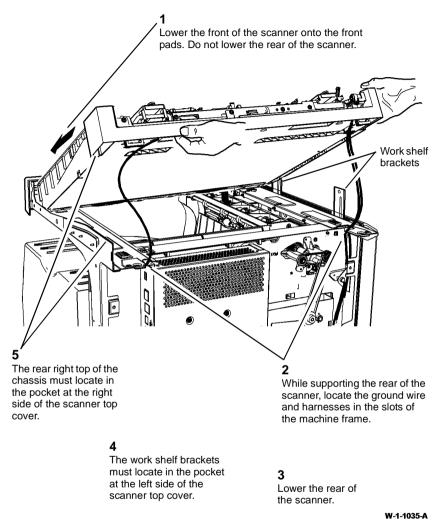


Figure 3 Scanner replacement

- 2. Secure the scanner. Refer to Figure 4.
 - **2** Ensure the front location pins are located correctly and have not pushed the grommets out of position.

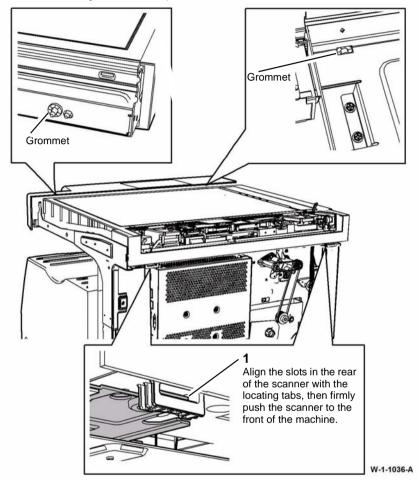


Figure 4 Scanner replacement

- 3. Ensure the shouldered screws are inserted into the blue grommets. Refer to Figure 1.
- 4. Ensure the scan carriage is unlocked. Refer to Figure 2.
- 5. Ensure the ground wire is connected correctly. Refer to Figure 1.
- Re-connect the harnesses to the SBC PWB. Ensure that the harnesses are positioned and secured correctly, refer to Figure 1.
- 7. Re-attach the left frame cover to the machine.

- 8. The remainder of the replacement procedure is the reverse of the removal procedure.
- 9. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.
- Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.

REP 60.3 Top Cover Assembly, Fan filter Cover and Fan Filter

Parts List on PL 60.15

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.

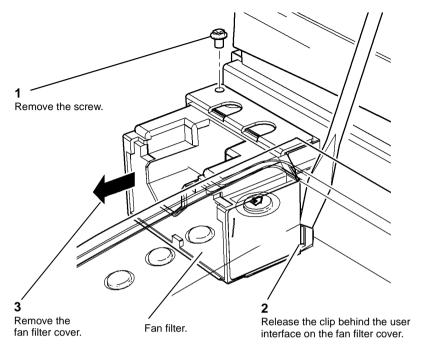


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

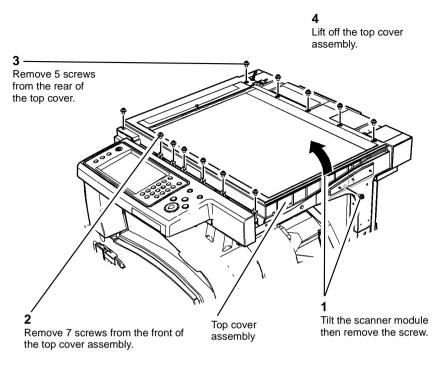
- 1. Remove the SPDH, REP 5.19.
- Remove the left frame cover, REP 28.1.
- 3. Remove the left frame cover support bracket, (2 screws).
- 4. Remove the upper right cover, PL 28.10 Item 3.
- 5. Remove the 4 screws securing the scanner. Refer to REP 60.2.
- 6. Slide the scanner back approximately 25mm (1 inch) to allow access to the 7 fixing screws on the front of the top cover assembly, Figure 2.
- 7. If only the fan filter, Figure 1 is being repaired, remove the wire retainer, PL 60.15 Item 11 and fan filter, then go to Replacement step 1.
- 8. Remove the fan filter cover, Figure 1.



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Figure 1 Fan filter cover assembly

9. Remove the top cover assembly, Figure 2.



W-1-0920-A

Figure 2 Top cover assembly

Replacement

- If the fan filter is being replaced, place the fan filter in the housing and secure with the wire retainer.
- 2. The replacement is the reverse of the removal procedure.
- Perform ADJ 60.1 scanner cleaning procedure.
- 4. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.4 Scanner PWB

Parts List on PL 60.20

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care if a new IOT PWB, scanner PWB or hard disk is to be installed. Ensure that any combination of these components are replaced one at a time and that the machine is switched off then on (GP 14) between each installation of a PWB or the hard disk. Failure to do so will cause corruption of the machine's NVM configuration data and render the machine inoperable. Refer to GP 27 Machine Configuration Control and Recovery.



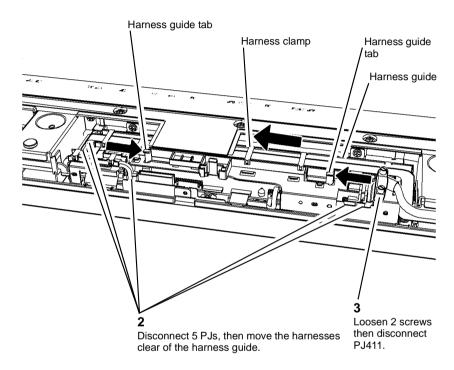


Ensure that E.S.D. procedures are observed during the removal and installation of the scanner PWB.

1. Remove the SPDH. REP 5.19.

- 2. Remove the harness guide, Figure 1.
 - 4

Press the 2 harness guide tabs towards each other. Simultaneously slide the harness guide in the direction of the large arrow and then remove the harness guide.



1 Release 8 harness clamps.

W-1-0921-A

Figure 1 Scanner harness guide

3. Remove the scanner PWB cover, Figure 2.

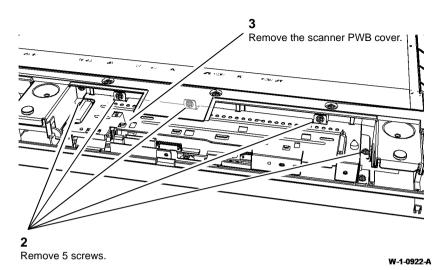


Figure 2 Scanner PWB cover

4. Remove the scanner PWB, Figure 3.

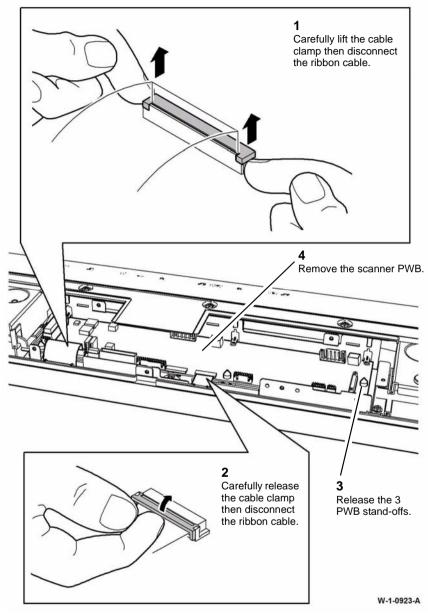


Figure 3 Scanner PWB

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Ensure the scanner PWB engages with the 3 PWB locators on the rear of the scanner PWB support, Figure 4.

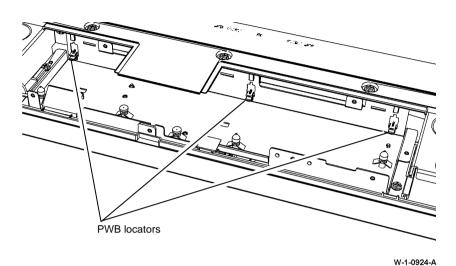


Figure 4 Scanner PWB locators

- If a new scanner PWB has been installed, perform ADJ 60.3 IIT Registration, Magnification and Calibration.
- 4. Ensure that the machine serial number in dC132 is correct. If necessary, enter the correct serial number.

REP 60.5 Scan Carriage Assembly

Parts List on PL 60.20

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- 2. Remove the scan carriage drive belt, REP 60.11.

3. Remove the ribbon cable retainer, Figure 1.

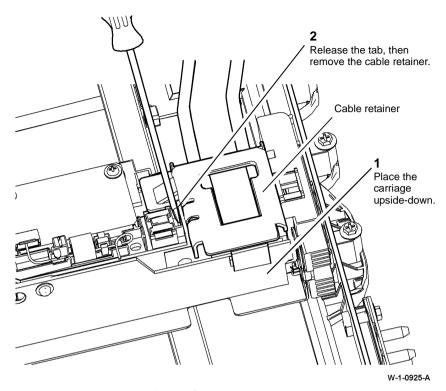


Figure 1 Cable retainer removal

4. Remove the cable clamp, Figure 2.

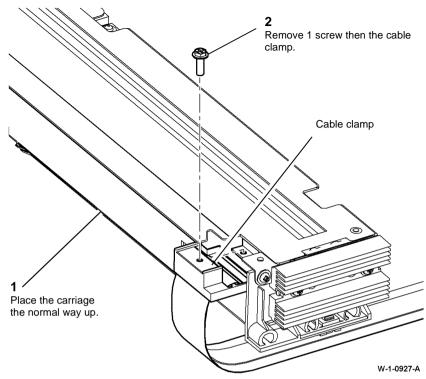


Figure 2 Cable clamp removal

5. Remove the scan carriage, Figure 3.

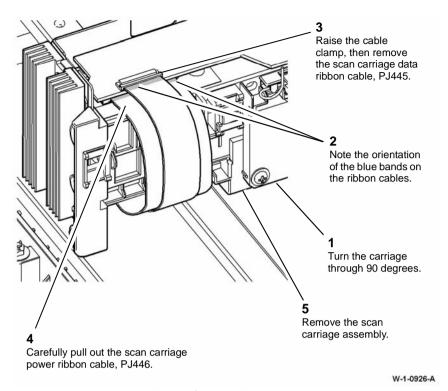


Figure 3 Scan carriage removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. When re-connecting the ribbon cables, the blue band printed on the cables must be orientated as shown in Figure 3.
- 3. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 4. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.6 Side 2 Scan Assembly and Side 2 Reg Sensor

Parts List on PL 60.30

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the takeaway roll assembly, REP 5.5.
- 2. Prepare to remove the side 2 scan assembly, Figure 1.

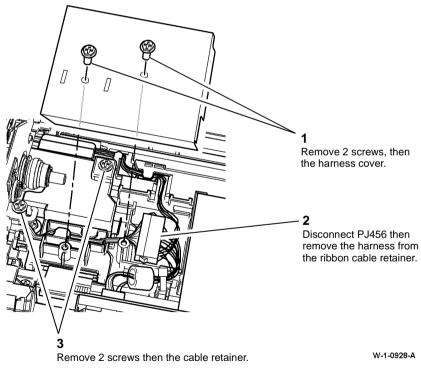


Figure 1 Scan assembly harnesses

3. Remove the side 2 scan assembly, Figure 2.

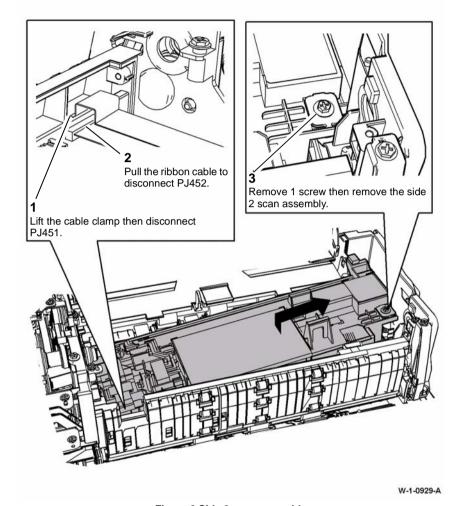


Figure 2 Side 2 scan assembly

4. If required, remove the side 2 reg sensor, Figure 3.

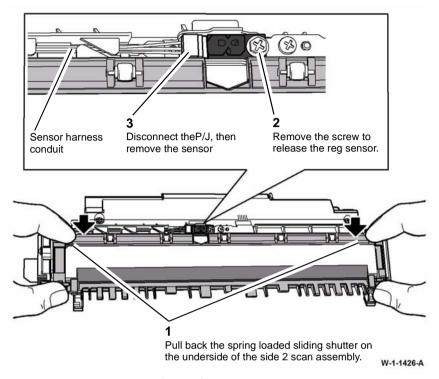


Figure 3 Sensor removal

Replacement



Take care not to trap the stack sensor actuator, PL 5.30 Item 6 beneath the side 2 scan assembly during re-assembly.

- 1. The replacement is the reverse of the removal procedure.
- 2. If the side 2 reg sensor was removed, ensure that the sensor harness is routed correctly within the harness conduit when the sensor is replaced, Figure 3.
- 3. Perform ADJ 60.2 Side 2 Scan Assembly Cleaning Procedure.
- 4. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.7 Scan Carriage Power Ribbon Cable

Parts List on PL 60.20

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- 2. Disconnect the ribbon cable from the scanner PWB, refer to REP 60.4.
- 3. Disconnect the ribbon cable from the scan carriage assembly. Refer to REP 60.5.

NOTE: It is not necessary to detach the scan carriage drive belt from the scan carriage.

Place the scan carriage upside down resting on the rear frame and scanner base, so that it is stable.

4. Remove the scan carriage support rail from the front of the scanner base, by removing 1 screw from the right end and 2 screws from the left end.

5. Remove the ribbon cable, Figure 1.

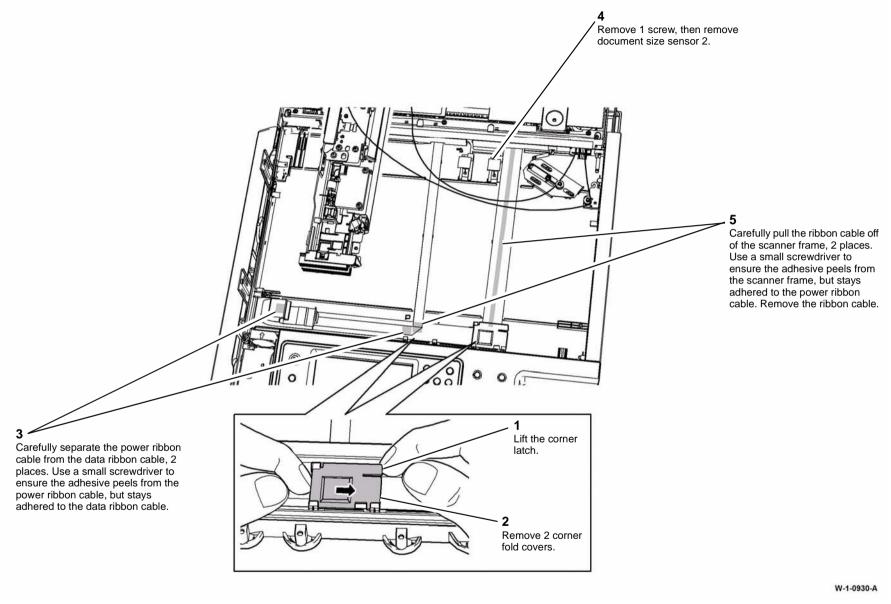


Figure 1 Ribbon cable removal

6. Clean the adhesive residue from the scanner frame using film remover, PL 26.10 Item 4.

Replacement

1. A new pre-folded ribbon cable is supplied with double sided tape attached. Figure 2 shows the positions of the double sided tape.

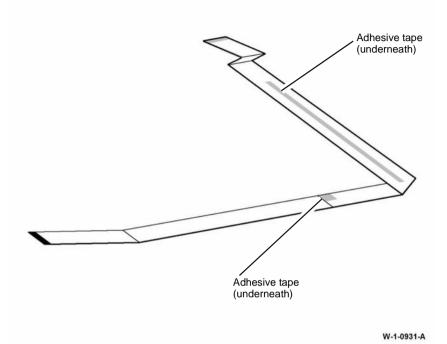


Figure 2 Ribbon cable adhesive

2. Align the ribbon cable, Figure 3.

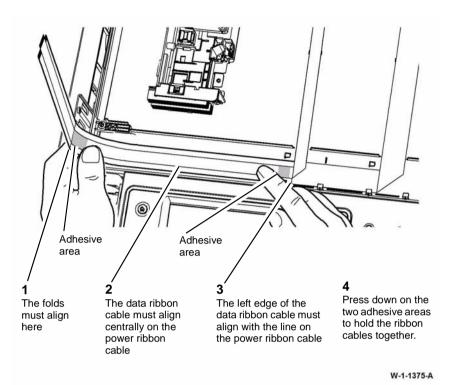


Figure 3 Ribbon cable alignment

3. Install the ribbon cable, Figure 4.

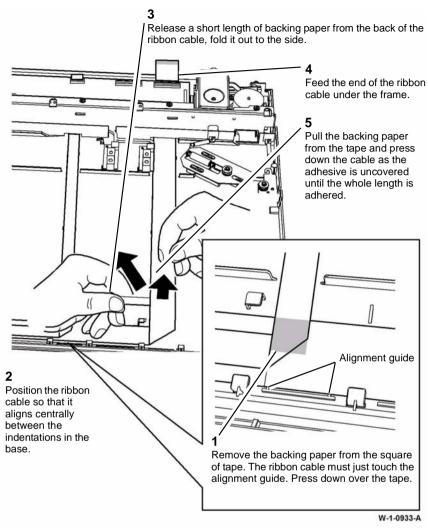


Figure 4 Ribbon cable placement

4. The remainder of the replacement procedure is the reverse of the removal procedure.

NOTE: Add folds to the ends of the new ribbon cable to copy the shape of the old ribbon cable. This will aid in the ease of connection to the ribbon cable connectors.

- 5. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 6. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.8 Scan Carriage Data Ribbon Cable

Parts List on PL 60.20

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.

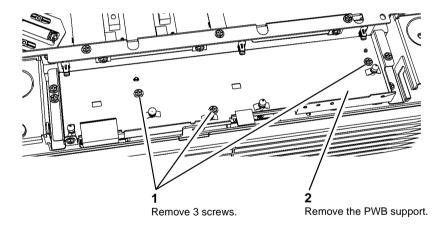


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- 2. Remove the scanner PWB, REP 60.4.
- 3. Remove the scanner PWB support, Figure 1.



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Figure 1 PWB support removal

I. Disconnect the ribbon cable from the scan carriage assembly. Refer to REP 60.5.

NOTE: It is not necessary to detach the scan carriage drive belt from the scan carriage.

Place the scan carriage upside down resting on the rear frame and scanner base, so that it is stable.

- 5. Remove the scan carriage support rail from the front of the scanner base, by removing 1 screw from the right end and 2 screws from the left end.
- 6. Remove the ribbon cable, Figure 2.

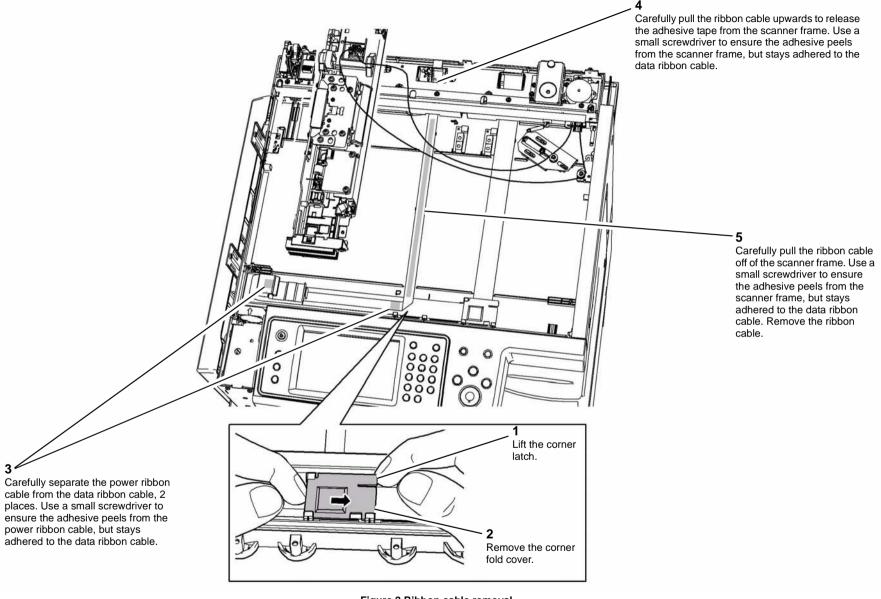


Figure 2 Ribbon cable removal

7. Clean the adhesive residue from the scanner frame using film remover, PL 26.10 Item 4.

Replacement

1. A new pre-folded ribbon cable is supplied with double sided tape attached. Figure 3 shows the positions of the double sided tape.

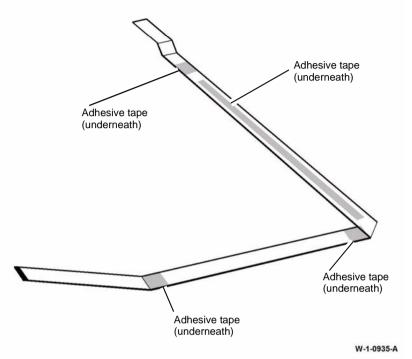


Figure 3 Ribbon cable adhesive

2. Align the ribbon cable, Figure 4.

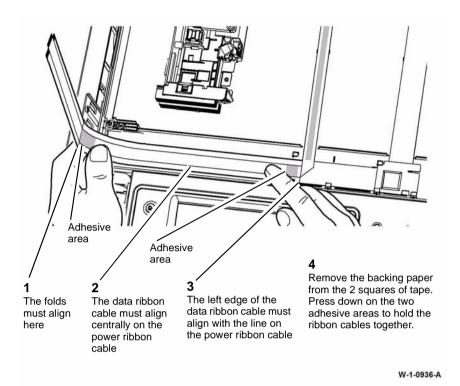


Figure 4 Ribbon cable alignment

3. Install the ribbon cable, Figure 5.

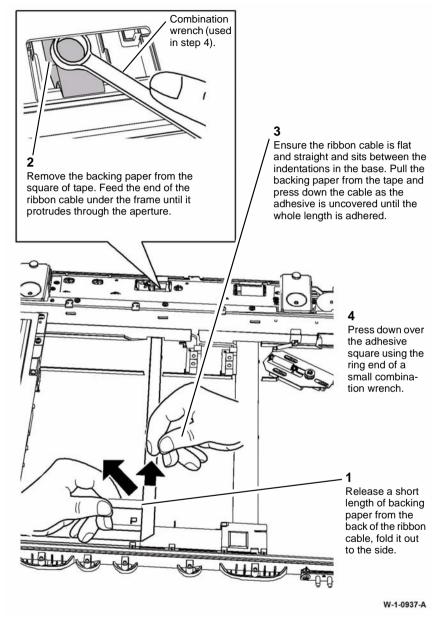


Figure 5 Ribbon cable placement

4. The remainder of the replacement procedure is the reverse of the removal procedure.

NOTE: Add folds to the ends of the new ribbon cable to copy the shape of the old ribbon cable. This will aid in the ease of connection to the ribbon cable connectors.

- 5. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 6. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.9 Actuator Support Assembly

Parts List on PL 60.20

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.

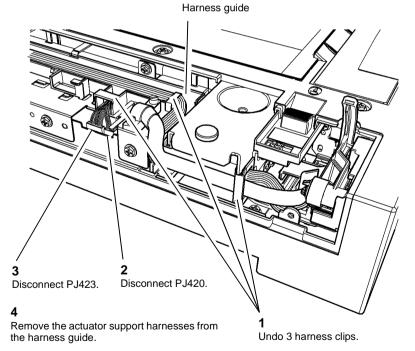


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

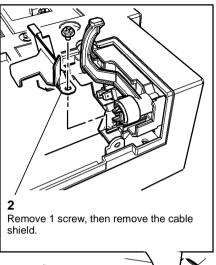
- 1. Remove the SPDH. REP 5.19.
- 2. Disconnect the actuator support harnesses, Figure 1.



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Figure 1 Harness connections

3. Remove the actuator support assembly, Figure 2.



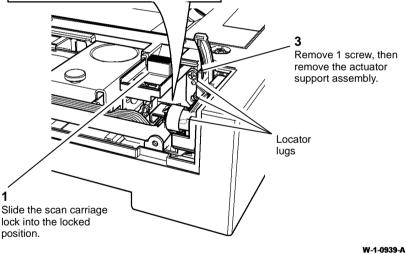
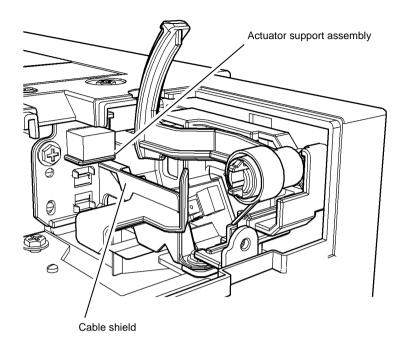


Figure 2 Actuator support assembly

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. When replacing the actuator support assembly, ensure that the 3 locator lugs of the scanner frame are located into the actuator support assembly before tightening the screw.

3. When replacing the cable shield, ensure the tip of the cable shield is positioned under the actuator support assembly, Figure 3.



NOTE: The scanner lock has been removed from this illustration for clarity.

W-1-0940-A

Figure 3 Replacing the cable shield

4. Press down the SPDH angle sensor actuator to ensure that it does not catch on the cable shield, PL 60.20 Item 12.

REP 60.10 Scan Carriage Motor Assembly

Parts List on PL 60.20

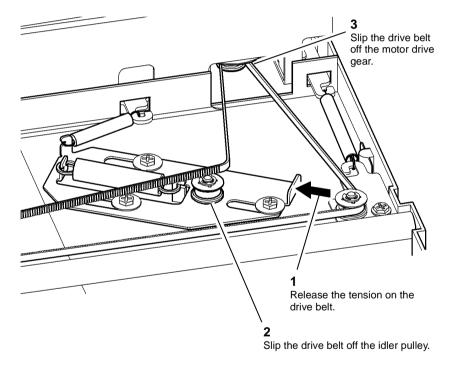
Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- 2. Remove the scan carriage drive belt from the motor drive gear, Figure 1.



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Figure 1 Release the drive belt

3. Remove the scan carriage motor, Figure 2.

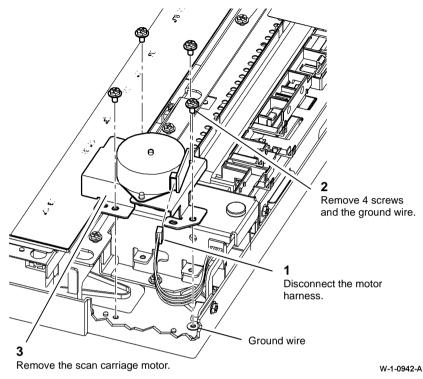


Figure 2 Scan carriage motor

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 3. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.11 Scan Carriage Drive Belt

Parts List on PL 60.20

Removal

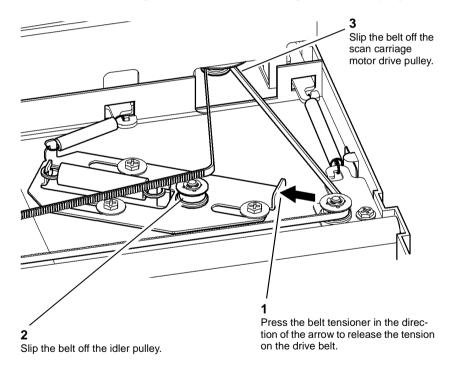


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- 2. Remove the scan carriage drive belt from the scan carriage motor assembly, Figure 1.



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Figure 1 Release the drive belt

3. Remove scan carriage transit shaft, Figure 2.

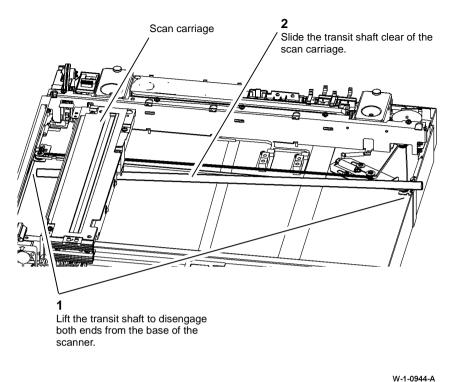


Figure 2 Release the transit shaft

4. Detach the scan carriage drive belt, Figure 3.

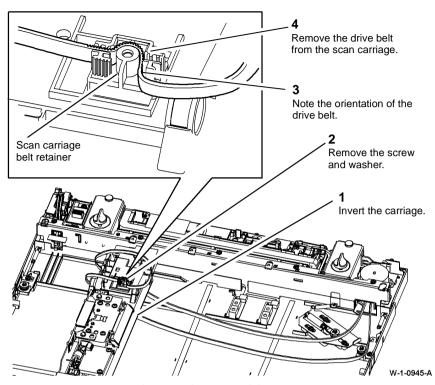


Figure 3 Drive belt retaining screw

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the scan carriage drive belt is installed correctly in the scan carriage belt retainer, Figure 3.
- 3. Ensure the scan carriage drive belt is installed correctly on all 3 idler pulleys and the scan carriage motor drive gear.
- 4. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 5. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.12 Scan Carriage Idler Pulleys

Parts List on PL 60.20 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the scanner top cover, REP 60.3.
- 2. Remove the scan carriage drive belt from the idler pulley of the belt tensioner, Figure 1.

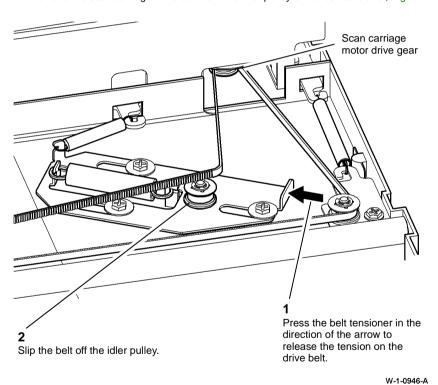


Figure 1 Release the drive belt

3. Remove the scan idler pulley, Figure 2.

NOTE: Figure 2 shows the idler pulley of the belt tensioner. However, the removal procedure for all 3 idler pulleys is identical.

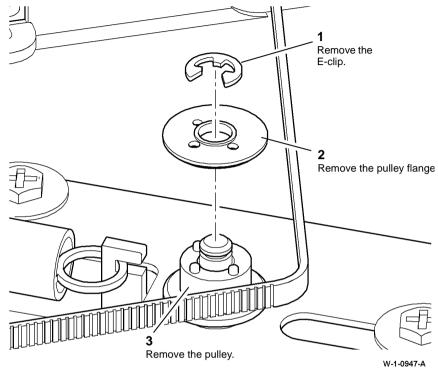


Figure 2 Scan idler pulley removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the scan idler pulleys are installed correctly, Figure 3.

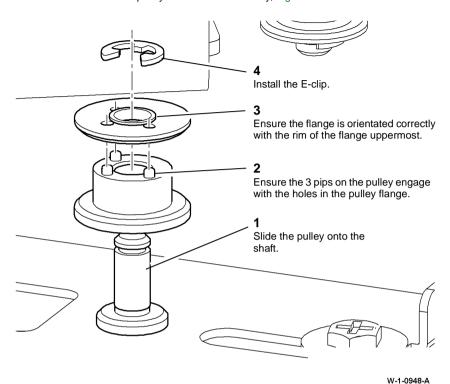


Figure 3 Idler pulley replacement

- 3. Ensure the scan carriage drive belt is installed correctly on all 3 idler pulleys and the scan carriage motor drive gear.
- 4. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 5. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.13 Document Size Sensor 1 and Document Size Sensor 2

Parts List on PL 60.20 Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- Remove document size sensor 1 (Q62-251) or document size sensor 2 (Q62-253), Figure
 1.

NOTE: The removal procedure of document size sensor 1 and document size sensor 2 is identical.

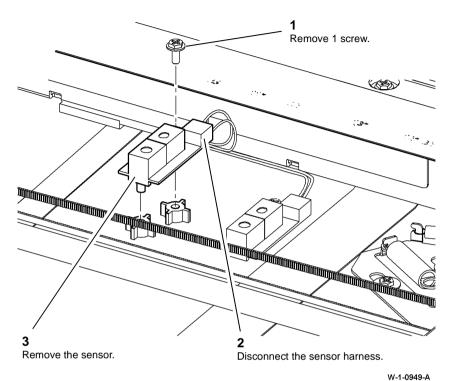


Figure 1 Document size sensor removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Perform ADJ 60.1 Scanner Cleaning Procedure.
- Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.14 Scanner Cooling Fan

Parts List on PL 60.15

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the top cover assembly, REP 60.3.
- Remove the cooling fan, Figure 1.

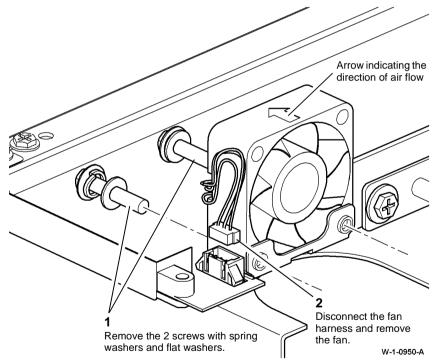


Figure 1 Cooling fan removal

Replacement

1. The replacement is the reverse of the removal procedure.

- 2. Ensure the fan is oriented correctly. The arrow on the fan housing indicates the direction of air flow, and must be pointing into the scanner housing, Figure 1.
- 3. Perform ADJ 60.1 Scanner Cleaning Procedure.
- 4. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

REP 60.15 LED Print Head Module

Parts List on PL 60.35

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the rear cover, REP 28.2.
- 2. Remove the SBC cover, PL 3.22 Item 9.

3. Disconnect the LED print head module ribbon cable, Figure 1.

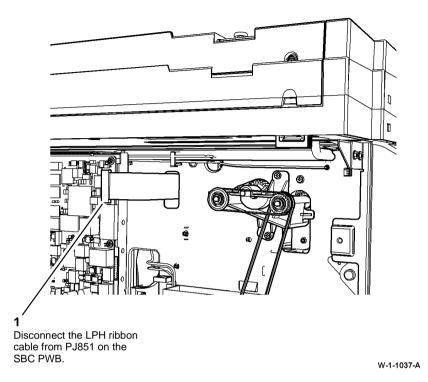
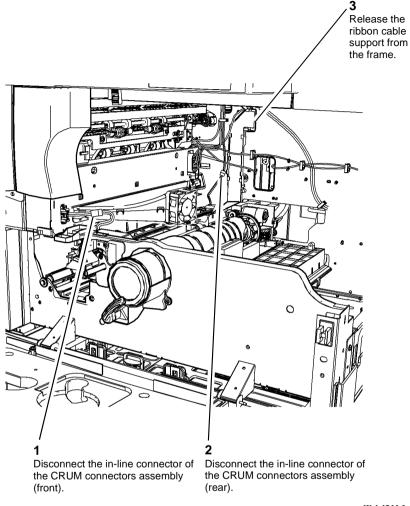


Figure 1 Ribbon cable

- 4. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 5. Remove the relevant component:
 - Horizontal transport assembly, REP 10.6.
 - Centre output tray, REP 28.1.
- If the machine had a horizontal transport installed, remove the backplate, PL 10.15 Item 12.
- 7. Remove the latch, PL 60.35 Item 2.
- 8. Remove the inner front cover, PL 28.10 Item 10.

9. Prepare to remove the LED print head module, Figure 2.



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Figure 2 Preparation



Take care not to damage the developer bias contact when removing the LED print head module. Also, avoid touching the LED lamp when handling the LED print head module.

10. Remove the LED print head module, Figure 3.

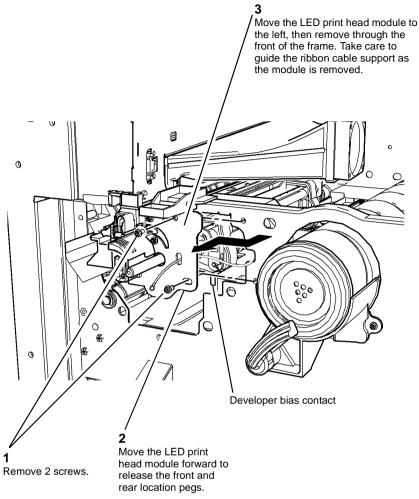


Figure 3 LPH removal

- 11. Push the SBC PWB end of the ribbon cable through the slot in the ribbon cable support to release the ferrite.
- 12. Remove the ferrite from the ribbon cable.
- 13. Un-fold the uppermost corner fold in the ribbon cable.
- 14. Slide the ribbon cable out of the support.

Replacement

- The replacement is the reverse of the removal procedure.
- Before installing the new LED print head module, ensure that the LED print head cleaner is fully home and the LED lamp is cammed into the housing.

3. Ensure the front and rear location pegs on the LPH are aligned with the holes in the frame, Figure 4.

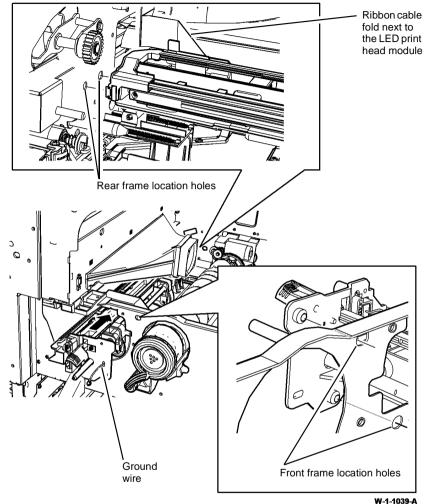


Figure 4 Replacement

- Ensure that any slack in the ground wire is positioned behind the machine frame, not in front, Figure 4.
- 5. Ensure that the ribbon cable fold next to the LED print head module is formed as shown in Figure 4.
- 6. Ensure the ribbon cable is correctly connected to PJ851 on the SBC PWB. The printed blue band should face away from the PWB.
- 7. Perform ADJ 60.4 LED Print Head Cleaning Procedure.

REP 70.1 Tray 1 and Tray 2 Removal

Parts List on PL 70.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Do not stack the trays one on top of the other tray. The top tray can damage the bottom tray, which can cause misfeeds or paper jams.

1. Remove tray 1 or tray 2, Figure 1.

NOTE: The removal procedure for tray 1 and tray 2 is the same.

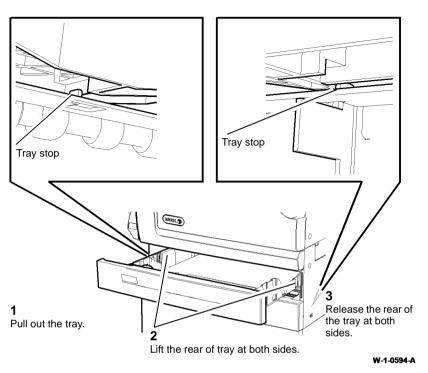


Figure 1 Tray 1 and tray 2 removal

Replacement

- 1. The replacement is the reverse of the removal procedure. Lift the rear of the tray over the tray stops and push the tray in. Refer to Figure 1.
- If the trays do not slide easily, go to ADJ 40.1 and perform the Tray 1 and 2 Slide Pads procedure.

REP 70.2 Bypass Tray Assembly

Parts List on PL 70.35

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.

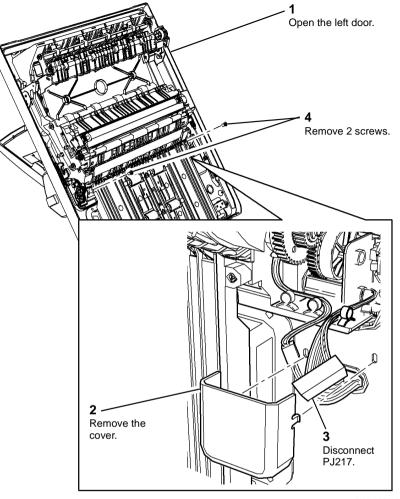


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 2. Prepare to remove the bypass tray assembly, Figure 1.



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Figure 1 Preparation

3. Remove the bypass tray assembly, Figure 2.

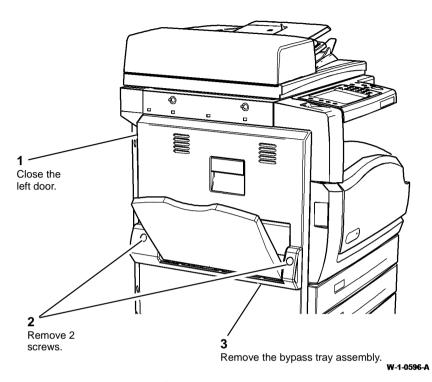


Figure 2 Bypass tray removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- Perform the dC604 Registration Setup.

REP 70.3 Tray 1 and Tray 2 Paper Guides

Parts List on PL 70.10

Removal



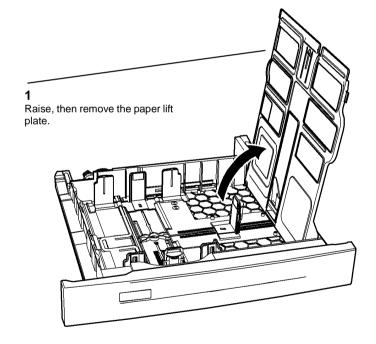
Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: The removal procedure is the same for tray 1 and for tray 2.

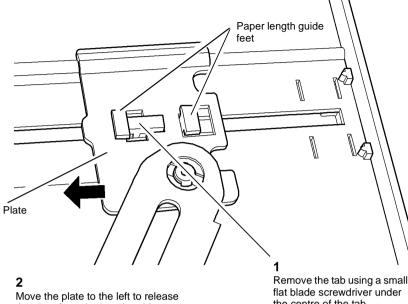
- 1. Remove the paper from the tray.
- 2. Remove the tray, REP 70.1.
- 3. Remove the paper lift plate, Figure 1.



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Figure 1 Paper lift plate removal

4. Prepare to remove the paper length guide, Figure 2.



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Figure 3 Paper length guide removal

5. Remove the paper length guide, Figure 3.

Remove the tab using a small the centre of the tab. the plate from the length guide.

Move the paper length guide to the centre of the track. Paper length guide Lift one side of the track to prise the paper length guide out of the track.

Figure 2 Preparation

W-1-1135-A

6. Remove the front paper width guide, Figure 4.

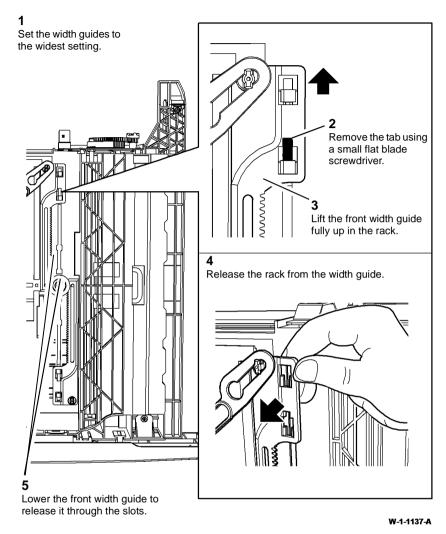


Figure 4 Front width guide removal

7. Remove the rear paper width guide, Figure 5.

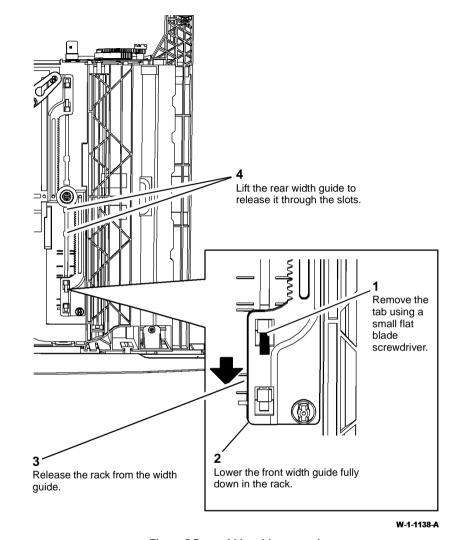


Figure 5 Rear width guide removal

Replacement

1. The replacement is the reverse of the removal procedure.

REP 70.4 Tray 1 and Tray 2 Paper Size Sensing PWBs Parts List on PL 70.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove tray 1 and tray 2, REP 70.1.
- 2. Remove the relevant paper tray size sensing PWB, Figure 1.

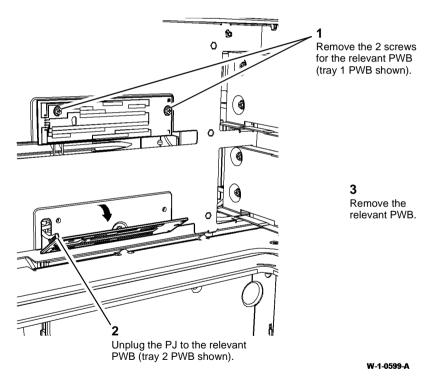


Figure 1 PWB removal

Replacement

The replacement is the reverse of the removal procedure.

REP 70.5 Tray 3 Removal

Parts List on PL 70.18

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the paper from tray 3.
- 2. Remove the tray 3 and tray 4 front covers, Figure 1.

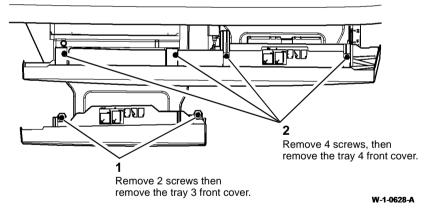
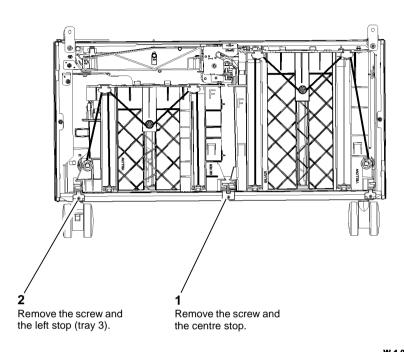


Figure 1 Tray front covers removal

3. Remove the stops, Figure 2.



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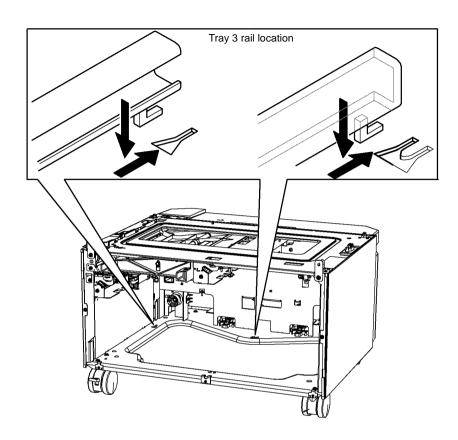
Figure 2 Tray 3 rail stops

4. Lift and pull to remove the tray complete with the guide rails.

Replacement

1. The replacement is the reverse of the removal procedure. Refer to GP 6 when refitting the screws to secure tray 3 and tray 4 front covers.

NOTE: When installing tray 3 ensure that the tray rails are located correctly in the base of the machine, Figure 3.



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Figure 3 Location of the tray rails



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Pull out trav 3.
- 2. Remove the lower rear cover, PL 70.26 Item 1.
- 3. Remove the tray 3 elevator motor, Figure 1.

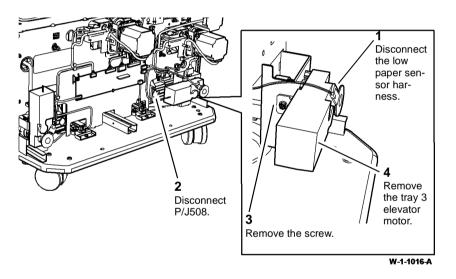


Figure 1 Elevator motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 70.7 Bypass Tray Width Sensor Removal Parts List on PL 70.35

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the bypass tray, REP 70.2.
- 2. Remove the lower tray, Figure 1.

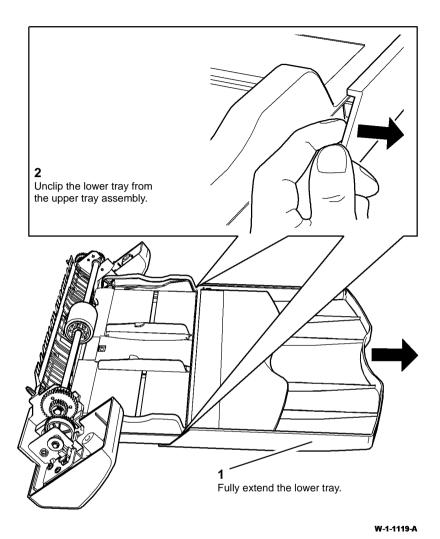


Figure 1 Lower tray removal

3. Remove the width sensor cover, Figure 2.

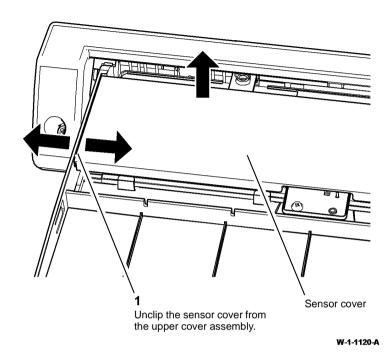


Figure 2 Width sensor cover removal

4. Remove the width sensor, Figure 3.

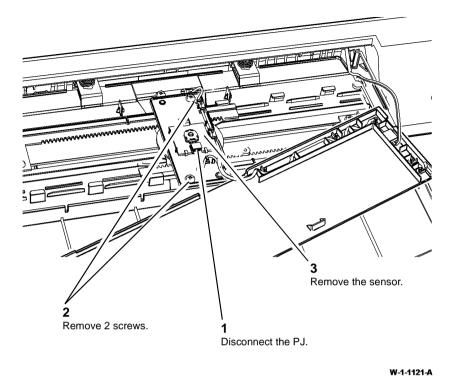
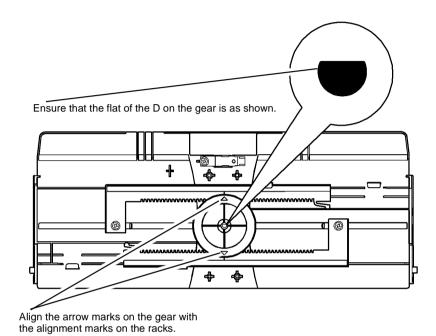


Figure 3 Width sensor removal

Replacement

- The replacement is the reverse of the removal procedure. Refer to GP 6 when refitting the screws securing the sensor.
- 2. Ensure the potentiometer and gear are correctly aligned with the racks on the size guides, Figure 4.



W-1-1122-A

Figure 4 Correct alignment

REP 70.8 Tray 3 and Tray 4 Elevator Cables

Parts List on PL 70.18, PL 70.19

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Do not replace the individual elevator cables. The rear cable and 2 front cables must be replaced as a set of 3, as supplied with the tray 3 or tray 4 elevator cable kit.

NOTE: The elevator drives at the front and at the rear are similar for both trays.

- 1. Remove the required paper tray:
 - Tray 3, REP 70.5.
 - Tray 4, REP 70.14.

2. Release the cables from the appropriate front drive pulley, Figure 1.

This illustration shows tray 3 front.

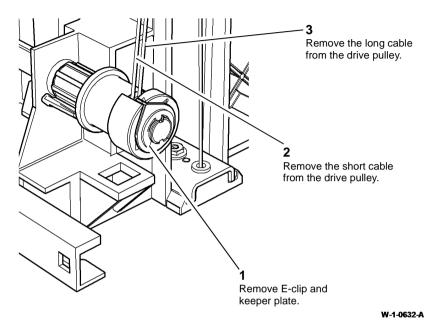
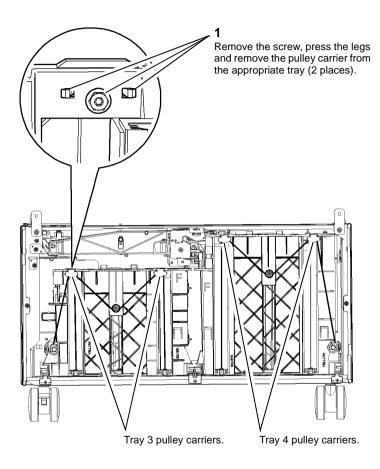


Figure 1 Front cables release

3. Release the appropriate front paper tray guide, refer to ADJ 70.1.

4. Remove the appropriate front elevator cables, Figure 2.

NOTE: The short cable is located over the outer pulley and the long cable is located over the inner pulley.



2 Remove the cables through the base of the tray.

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Figure 2 Front cables removal

- 5. Release the appropriate rear paper tray guide, refer to ADJ 70.1.
- 6. Remove the appropriate rear elevator cable:
 - Tray 3, Figure 3.
 - Tray 4, Figure 4.

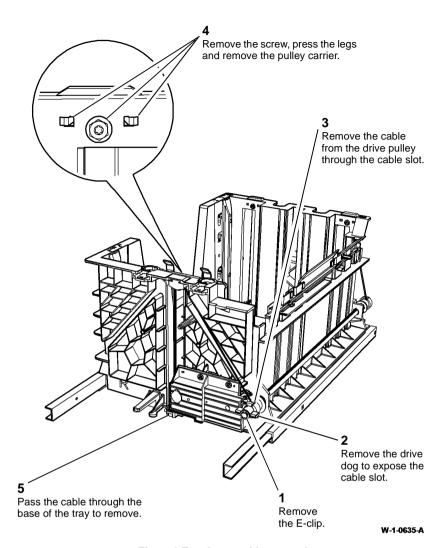


Figure 3 Tray 3 rear cable removal

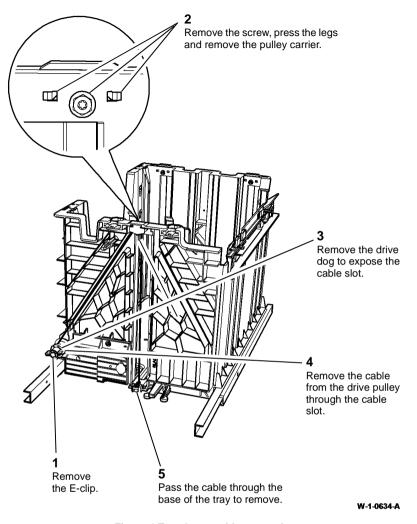


Figure 4 Tray 4 rear cable removal

Replacement



Do not replace the individual elevator cables. The rear cable and 2 front cables must be replaced as a set of 3, as supplied with the tray 3 or tray 4 elevator cable kit.

- 1. The replacement is the reverse of the removal procedure.
- 2. For the tray 3 front cables:
 - a. Thread the long cable over the inner groove on the pulley.
 - b. Tread the short cable over the outer groove on the pulley.
- 3. For the tray 3 rear cable, thread the medium length cable over the outer groove on the pulley.
- 4. For the tray 4 front cables:

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- a. Thread the short cable over the inner groove on the pulley.
- b. Thread the long cable over the outer groove on the pulley.
- 5. For the tray 4 rear cable, thread the medium length cable over the inner groove on the pulley.

REP 70.9 Tray 3 and Tray 4 Stack Height Sensor

Parts List on PL 80.32, PL 80.33

Removal

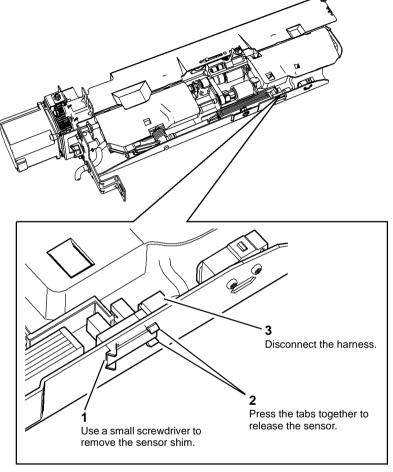


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the required paper feed assembly:
 - Tray 3 paper feed assembly, REP 80.20.
 - Tray 4 paper feed assembly, REP 80.21.
- 2. Remove the stack height sensor, Figure 1.



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Figure 1 Stack height sensor removal

Replacement

The replacement is the reverse of the removal procedure. Install a new sensor shim to lock the sensor in place.

REP 70.10 Tray 3 and Tray 4 Home Sensor

Parts List on PL 70.21

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: The removal procedure is the same for tray 3 and tray 4.

- 1. Pull out tray 3 or tray 4 by approximately 50mm (2 inches).
- 2. Remove the lower rear cover, PL 70.26 Item 1.
- 3. If removing the tray 4 home sensor, remove the LVPS, REP 1.1.
- 4. Remove the tray home sensor and holder, Figure 1.

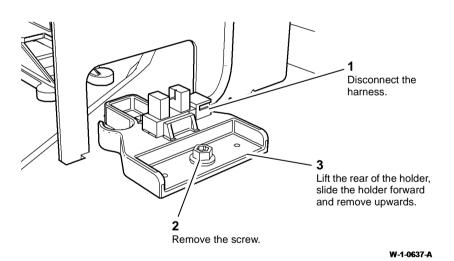
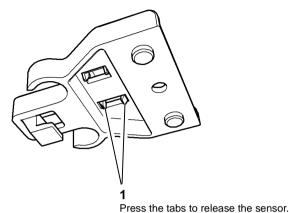


Figure 1 Tray home switch and holder

5. Remove the tray home sensor, Figure 2.



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Figure 2 Sensor removal

Replacement

Replacement is the reverse of the removal procedure. Correctly locate the sensor holder, Figure 3.

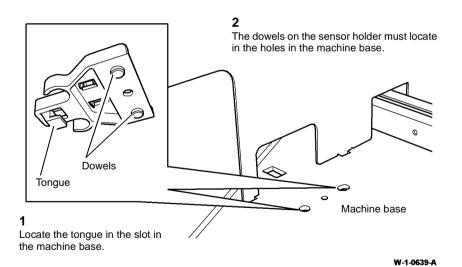


Figure 3 Holder location

REP 70.11 Tray 3 and Tray 4 Elevate Damper Assembly Parts List on PL 70.18, PL 70.19

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the required paper tray:
 - Tray 3, REP 70.5.
 - Tray 4, REP 70.14.
- 2. Remove the damper from tray 3, Figure 1.

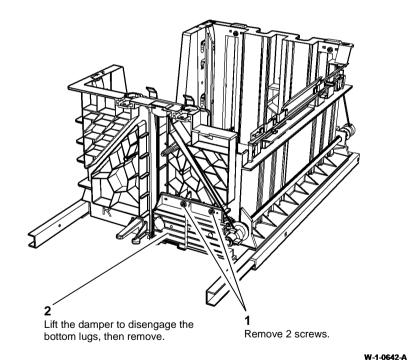
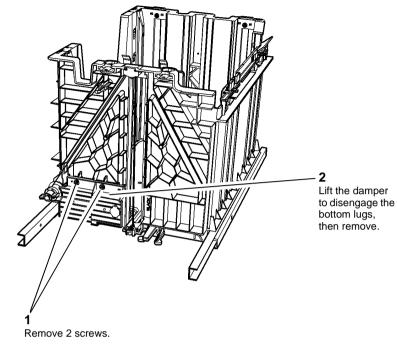


Figure 1 Tray 3 damper removal

3. Remove the damper from tray 4, Figure 2.



W-1-0641-A

Figure 2 Tray 4 damper removal

Replacement

 The replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.

REP 70.12 Tray 1 and Tray 2 Lift Gear Assembly

Parts List on PL 70.10

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray, REP 70.1.
 - **NOTE:** Make a note of the position of the 2 screws on the gear assembly, for replacement purposes.
- 2. Remove the lift gear assembly, Figure 1.

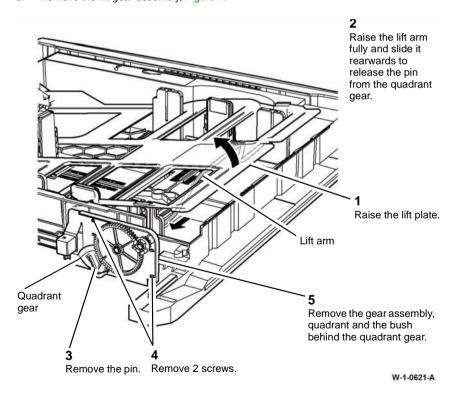


Figure 1 Lift gear removal

Replacement

 Engage the lift gear assembly with the spigots on the rear of the tray. The remainder of the replacement procedure is the reverse of the removal procedure.

NOTE: The existing gears are snap fitted to the shafts and can be removed to allow the new gears to be pushed on.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.





Ensure that E.S.D. procedures are observed during this procedure.

- 1. Remove the lower rear cover, PL 70.26 Item 1.
- 2. Remove the LVPS, REP 1.1.
- 3. Remove the tray 4 control PWB, Figure 1.

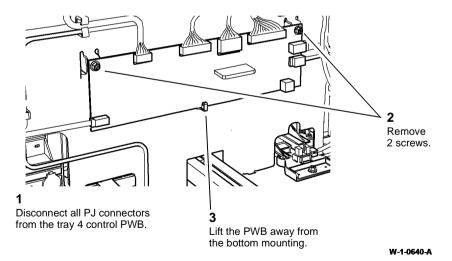


Figure 1 HCF control PWB removal

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Perform dC604 Registration Setup Procedure.

REP 70.14 Tray 4 Removal

Parts List on PL 70.19, PL 70.26

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the paper from the tray.
- 2. Remove the tray 3 and tray 4 front covers, Figure 1.

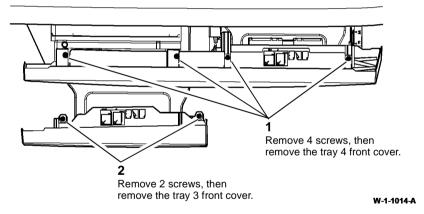
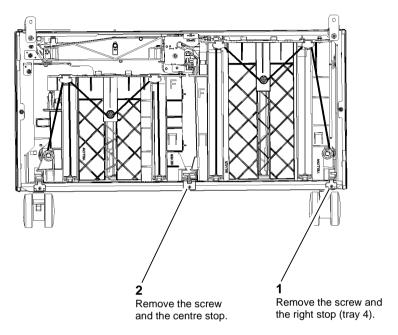


Figure 1 Front covers removal

3. Remove the stops, Figure 2.



W-1-1015-A

Figure 2 Tray 4 rail stops

4. Lift and pull to remove the tray complete with the guide rails.

Replacement

1. The replacement is the reverse of the removal procedure. Refer to GP 6 when refitting the screws to secure the tray 4 front cover.

NOTE: When installing tray 4 ensure that the tray rails are located correctly in the base of the machine, Figure 3.

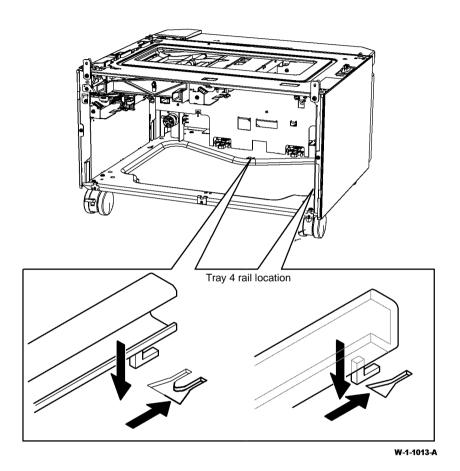


Figure 3 Location of the tray rails

REP 70.15 Tray 4 Elevator Motor (W/OTAG 009)

Parts List on PL 70.21

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Pull out tray 4.
- 2. Remove the lower rear cover, PL 70.26 Item 1.
- 3. Remove the LVPS, REP 1.1.

4. Remove the tray 4 elevator motor, Figure 1.

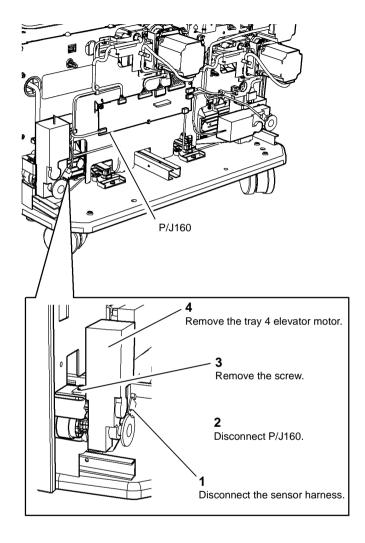


Figure 1 Elevator motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 70.16 Tray 3 Empty Sensor

Parts List on PL 80.32

Removal

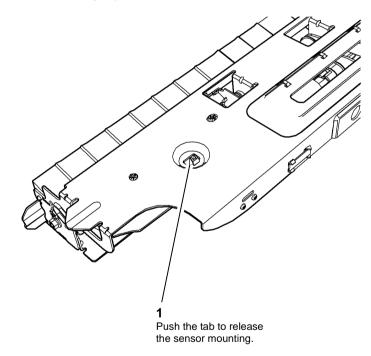


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 3 paper feed assembly, REP 80.20.
- 2. Release the sensor mounting, Figure 1.



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Figure 1 Sensor mounting release

W-1-0737-A

3. Remove the tray 3 empty sensor, Figure 2.

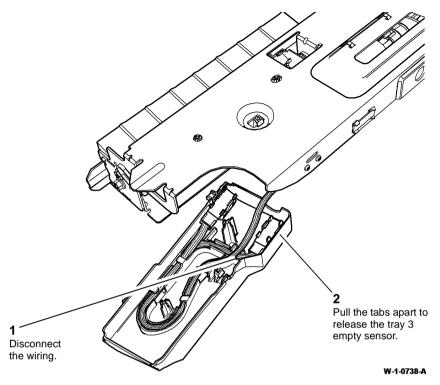


Figure 2 Sensor removal

Replacement

Replacement is the reverse of the removal procedure.

REP 70.17 Tray 4 Empty Sensor

Parts List on PL 80.33

Removal

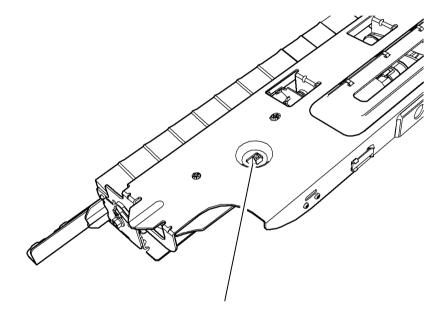


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 4 paper feed assembly, REP 80.21.
- 2. Release the sensor mounting, Figure 1.



W-1-0732-A

Figure 1 Sensor mounting release

3. Remove the tray 4 empty sensor, Figure 2.

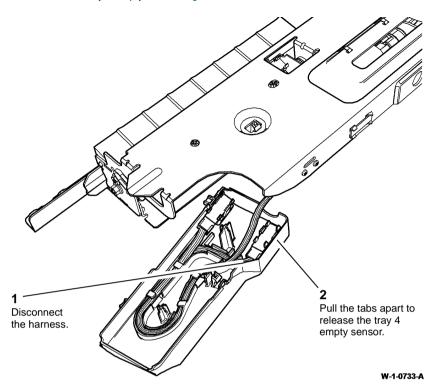


Figure 2 Sensor removal

Replacement

Replacement is the reverse of the removal procedure.

REP 70.18 Bypass Tray Harness and Bypass Elevate Tray Assembly

Parts List on PL 70.35 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: If repairing only the bypass tray harness, skip step 4. If repairing only the bypass elevate tray assembly, skip step 3.

1. Remove the bypass tray assembly, REP 70.2.



Take care not to damage the wiring harness between the tray assembly and the feeder frame.

2. Remove the feedhead cover, Figure 1.

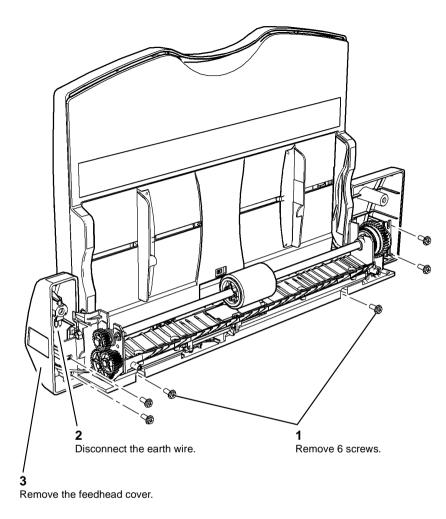


Figure 1 Cover removal

3. Release the bypass tray harness, Figure 2.

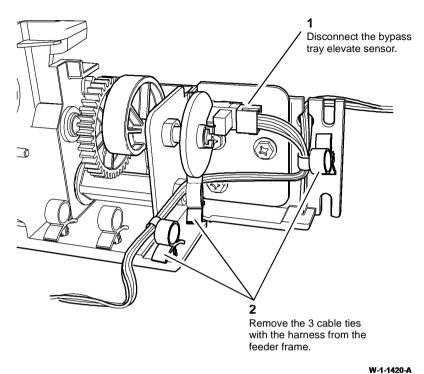


Figure 2 Sensor and cable ties

W-1-1417-A

- 4. Release the tray assembly, Figure 3.
 - Tray retaining clip Align the flats of the pivot shaft with the flats of the frame.

Figure 3 Tray assembly release

Frame

Pivot shaft

Simultaneously, release the front and rear tray retaining clips, then disengage rear and front pivots from the frame. SEE CAUTION.

5. Remove the lower tray, Figure 4.

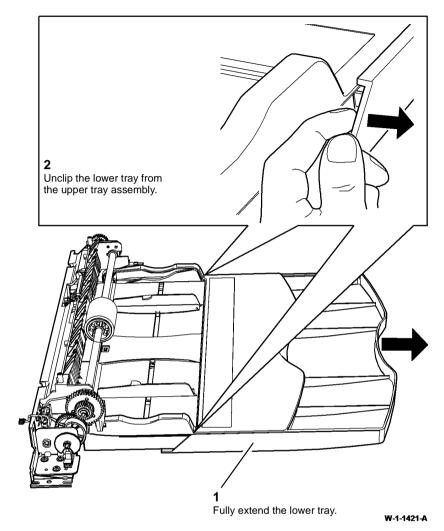


Figure 4 Lower tray removal

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6. Release the sensor cover, Figure 5.

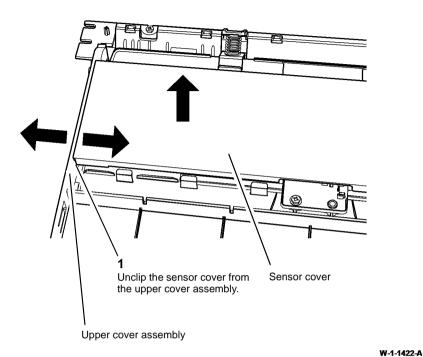


Figure 5 Unclip the sensor cover

7. Disconnect the sensors and release the bypass tray harness, Figure 6.

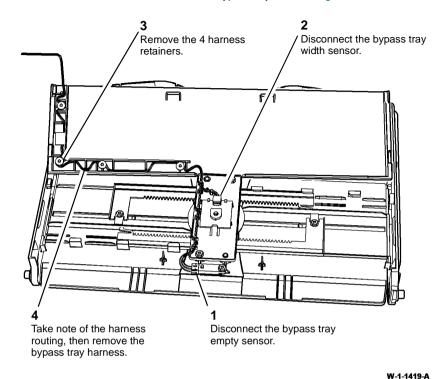


Figure 6 Harness routing

Replacement

Replacement is the reverse of the removal procedure.

Ensure the bypass tray harness does not get crushed when the feedhead cover is position on the location peg, Figure 7.

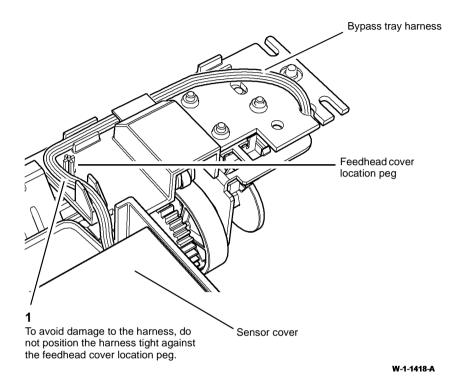


Figure 7 Harness routing on the feeder frame

REP 70.19 Tray 4 Elevator Motor (W/TAG 009)

Parts List on PL 70.21

Removal

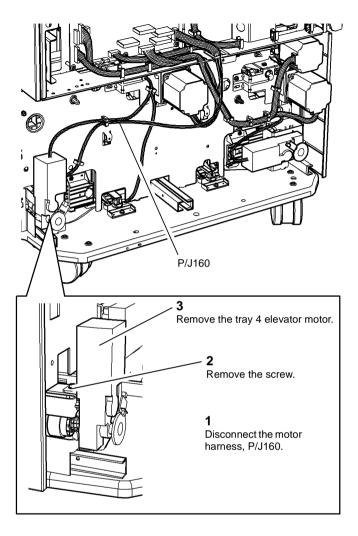


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Pull out tray 4.
- 2. Remove the lower rear cover, PL 70.26 Item 1.
- 3. Remove the LVPS, REP 1.1.
- 4. Remove the tray 4 elevator motor, Figure 1.



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Figure 1 Elevator motor removal

Replacement

The replacement is the reverse of the removal procedure.

REP 80.1 Tray 1 and Tray 2 Paper Feed Assembly

Parts List on PL 80.26

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove tray 1 or tray 2 as required, REP 70.1.
- 2. Remove the tray 1 or tray 2 feed assembly, Figure 1.

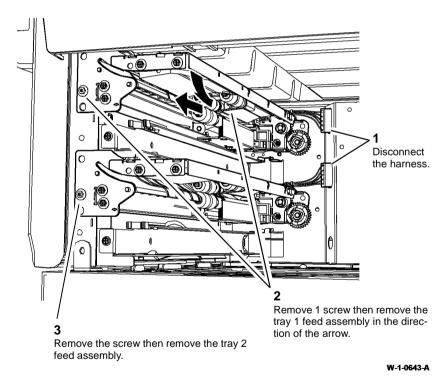


Figure 1 Paper feed assembly removal

Replacement

- Examine the stack height mechanism actuator, If it does not slide easily, perform the Stack Height Mechanism Actuator procedure of ADJ 40.1.
- 2. Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws
- If new feed rolls are installed, reset the tray 1 or tray 2 feed roll HFSI count. Refer to dC135 CRU/HFSI Status.

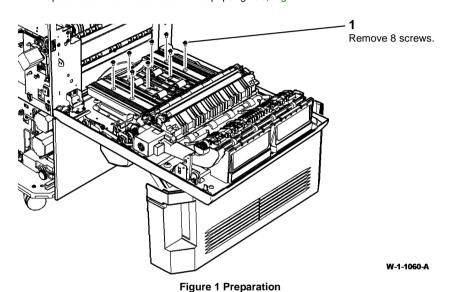
REP 80.2 Tray 1 and Tray 2 TAR Sensors and Lower Left Door Paper Guide

Parts List on PL 80.10 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the left door into the service position, GP 37.
- 2. Prepare to remove the lower left door paper guide, Figure 1.



3. Release the TAR 1 and TAR 2 sensor harness cable ties (2 places) Figure 2.

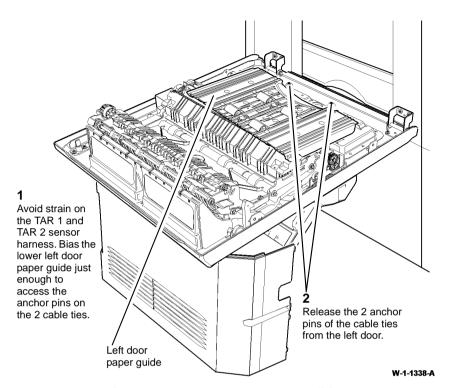


Figure 2 TAR 1 and TAR 2 sensor harness fixings

4. Prepare to disconnect the TAR 1 or TAR 2 sensors, Figure 3.

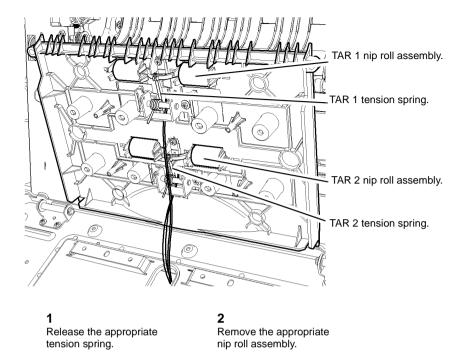
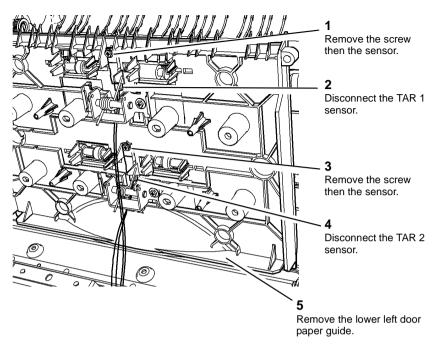


Figure 3 Lower left door nip rolls

5. Remove the lower left door paper guide, Figure 4.



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REP 80.2

Figure 4 Sensor and guide removal

Replacement

W-1-1339-A

1. Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the

REP 80.3 Registration Nip Roll and Registration Transfer Assembly

Parts List on PL 80.15 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Open the left door, PL 80.10 Item 1.
- Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- Remove the registration transfer assembly, Figure 1.

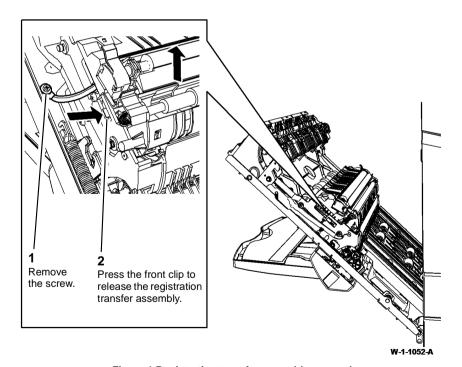
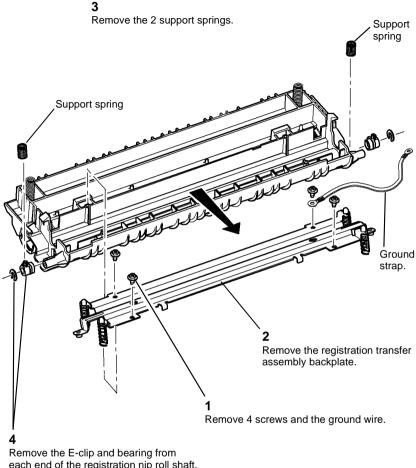


Figure 1 Registration transfer assembly removal

4. Prepare to remove the registration nip roll, Figure 2.

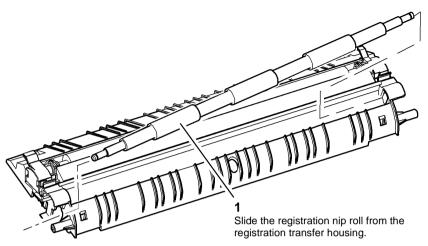


each end of the registration nip roll shaft.

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Figure 2 Registration backplate assembly

5. Remove the registration nip roll, Figure 3.



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Figure 3 Registration nip roll removal

Replacement

- Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.
- 2. Ensure the ground strap is installed, Figure 2.
- 3. Perform the dC604 Registration Setup procedure.

REP 80.4 Registration Transport Assembly, Registration Roll and Registration Sensor

Parts List on PL 80.17, PL 80.25

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Open the left door, PL 80.10 Item 1.
- 2. Cam-off the LED print head into the retracted position.
- 3. Remove the print cartridge, PL 90.17 Item 9. Place the print cartridge in a lightproof bag.
- 4. Remove the latch, PL 60.35 Item 2.
- 5. Remove the inner front cover, PL 28.10 Item 10.
- 6. Remove the main drive module, REP 40.1.

7. Remove the registration roll, Figure 1.

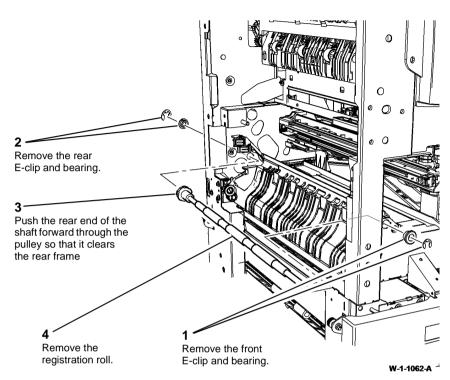


Figure 1 Registration roll removal

8. Remove the bypass tray drive assembly, Figure 2.

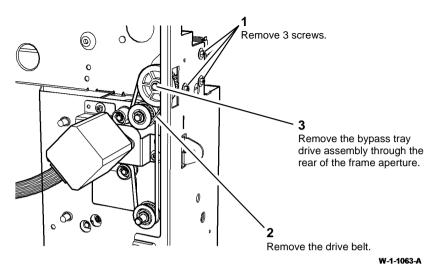


Figure 2 Bypass tray drive assembly removal

9. Prepare to remove the registration transport housing, Figure 3.

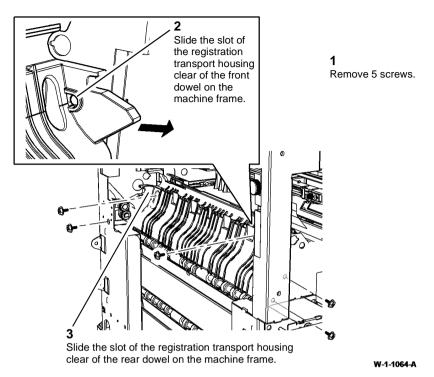


Figure 3 Preparation

10. Remove the registration transport housing, Figure 4.

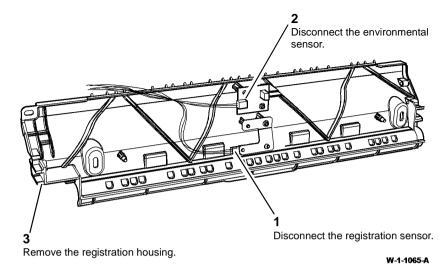


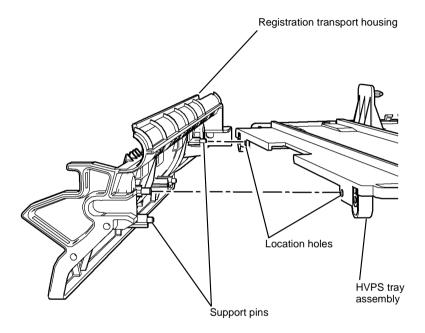
Figure 4 Housing removal

11. Remove the registration sensor.



If the registration transport housing is not located correctly rotation of the registration roll will be impaired.

- Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws
- 2. Ensure the 2 support pins on the registration transport housing engage into the 2 location holes of the HVPS tray assembly, Figure 5.



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Figure 5 Housing replacement



Ensure the front of the registration transport housing is biased fully up before tightening the screws.

3. Secure the registration transport housing, Figure 6.

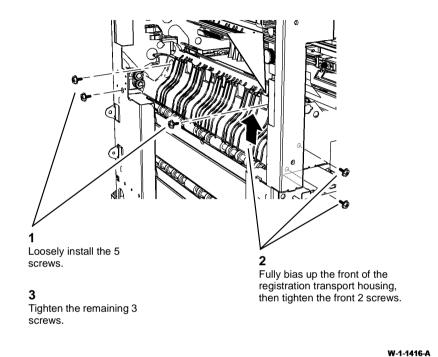


Figure 6 Housing biasing

- 4. Check the registration roll rotates freely.
- 5. Perform the dC604 Registration Setup procedure.

REP 80.5 Duplex Transport Assembly

Parts List on PL 80.22

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the left door, PL 80.10 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Remove the registration transfer assembly, REP 80.3.
- 4. Prepare to remove the duplex transport assembly, Figure 1.

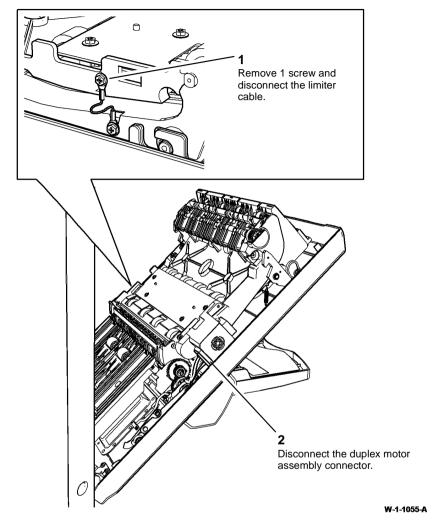


Figure 1 Preparation

5. Remove the fuser module, PL 10.8 Item 1.

6. Remove the duplex transport assembly, Figure 2.

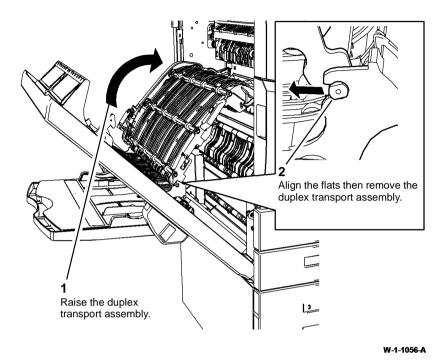


Figure 2 Removal

Replacement

Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.

REP 80.6 Bypass Tray Drive Belt

Parts List on PL 80.25

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care during this procedure. Motors will become hot during normal operation.

- 1. Open the left door, PL 80.10 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Remove the rear cover, REP 28.2.

4. Remove the bypass tray drive belt, Figure 1.

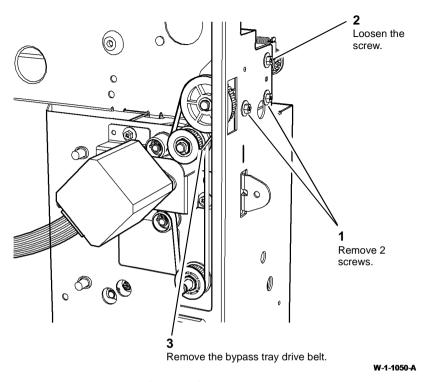


Figure 1 Drive Belt Removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform the dC604 Registration Setup procedure.

REP 80.7 Left Door Assembly

Parts List on PL 80.10

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Do not lower the left door assembly further than the authorized service position, GP 37. Lowering of the left door assembly beyond the service position will cause the left door cover to collide with the IOT to HCF inboard fixing bolt.

- 1. If the existing left door assembly is to be replaced with a new left door assembly remove the bypass tray assembly, REP 70.2.
- 2. Remove the rear cover, REP 28.2.
- Open the left door. Remove the print cartridge, PL 90.17 Item 9. Place the print cartridge in a lightproof bag.

4. Disconnect the harnesses between the IOT and the left door assembly, Figure 1.

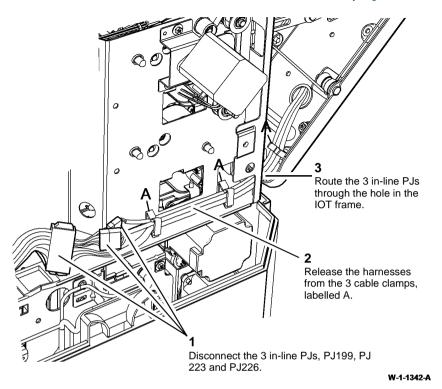
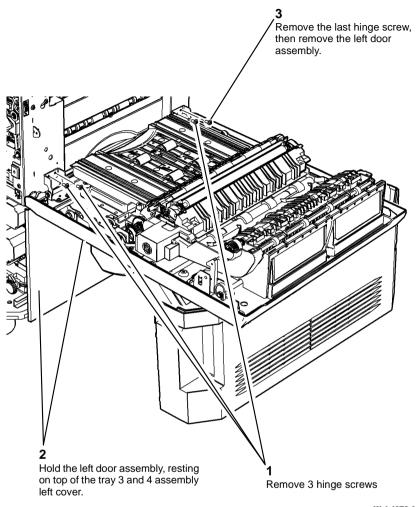


Figure 1 Left door harness connections

NOTE: Partial opening of tray 2 will allow greater clearance for the routing of the harnesses.

5. Position the left door assembly into the service position, GP 37.

6. Remove the left door assembly, Figure 2.



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Figure 2 Left door removal

Replacement



Ensure the left door assembly is supported and finally fixed into place when in the service position (horizontal), GP 37. Incorrect positioning of the left door assembly when installing the 4 fixing screws may cause the left door cover to collide with the IOT to HCF inboard fixing bolt, when the door is closed.

1. Prepare to install the left door assembly, Figure 3.

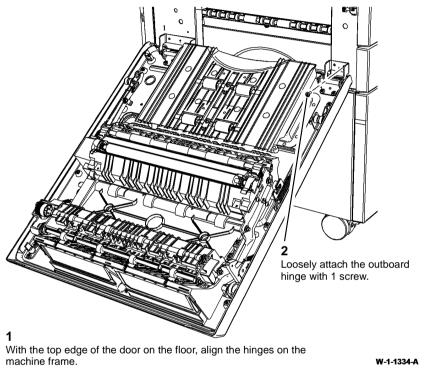


Figure 3 Temporary alignment

2. Install the left door assembly, Figure 4.

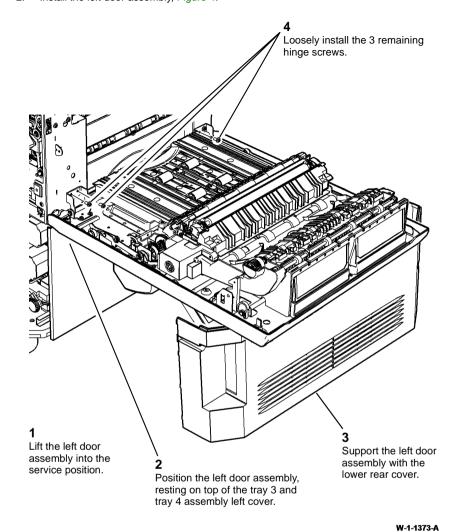
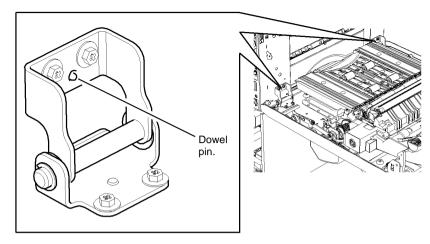


Figure 4 Left door assembly Installation

 Ensure that the location holes of the left door assembly hinges locate correctly with small dowel pins on the IOT frame, Figure 5. Then Fully tighten the 4 hinge screws, refer to Figure 3 and Figure 4.



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Figure 5 Hinge location

- If a new left door assembly is installed return the old left door assembly with the front and rear damper spring tensioner tools attached.
- 5. The remainder of the replacement is the reverse of the removal procedure.
- 6. Perform the dC604 Registration Setup procedure.

REP 80.8 TAR/Bypass Tray Motor and Transport Drive Belt Kit

Parts List on PL 80.25 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bypass tray drive belt, REP 80.6.
- 2. Remove the TAR/Bypass tray motor, Figure 1.

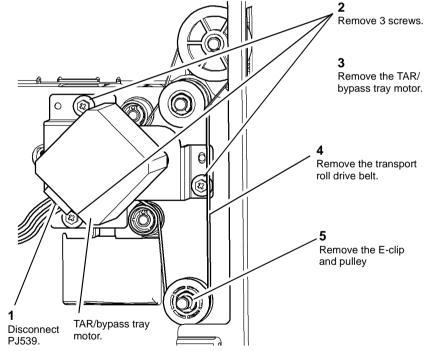


Figure 1 TAR/Bypass tray motor

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Perform the dC604 Registration Setup procedure.

REP 80.9 Duplex Sensor and Duplex Outer Guide Assembly

Parts List on PL 80.10 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the left door, PL 80.10 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Remove he left door fan cover, PL 80.10 Item 4.
- 4. Remove the duplex transport assembly, REP 80.5.
- 5. Prepare to remove the duplex outer guide assembly, Figure 1.

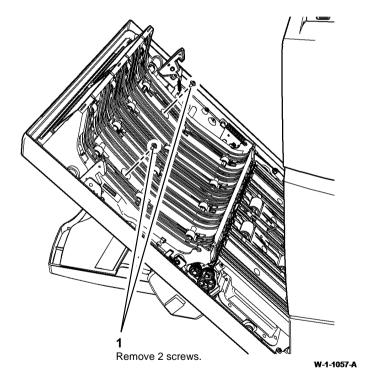


Figure 1 Preparation

6. Remove the duplex outer guide assembly, Figure 2.

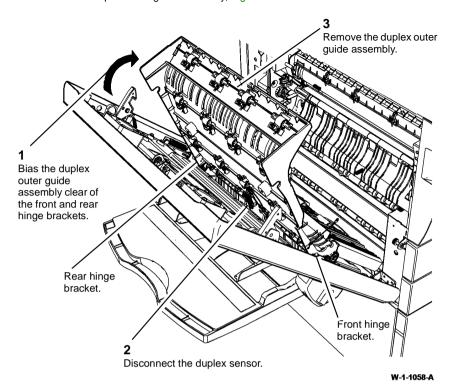


Figure 2 Removal

7. Remove the duplex sensor from the duplex outer guide assembly.

Replacement

Replacement is the reverse of the removal procedure.

REP 80.10 Tray 1 and Tray 2 Transport Rolls and Bearings Parts List on PL 80.25 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: The removal procedure is the same for the tray 1 and tray 2 transport rolls.

- 1. Open the left door, PL 80.10 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Remove tray 1 and tray 2, PL 70.10.
- 4. Remove tray 1 and 2 paper feed assembly, REP 80.1.
- 5. Remove the transport roll drive belt, REP 80.8.

NOTE: The drive pulley, PL 80.25 Item 3 and pulley, PL 80.25 Item 4 both have a built-in one-way clutch. The transport roll rotates when the pulleys are turned in a counter-clockwise direction. Before removal of the pulleys, mark the pulleys to indicate their correctly installed position.

Raise the tray 1 guide rail to increase access to the tray 2 transport roll front E-clip and bearing, Figure 1.

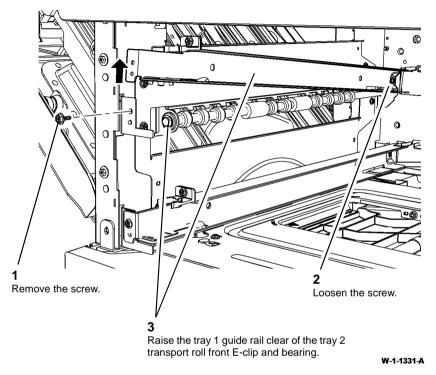


Figure 1 Front E-clip access

7. Remove the transport roll and transport roll bearings, Figure 2.

6Remove the front bearing. Then withdraw the shaft towards the front of the machine. **5**Move the transport roll towards the rear of the machine to release it from the front bearing.

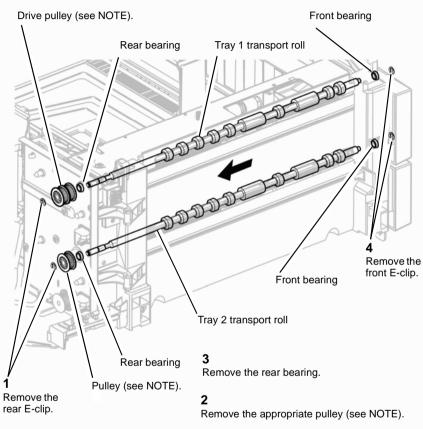


Figure 2 Transport roll removal

Replacement

- Replacement is the reverse of the removal procedure. Refer to GP 6 before refitting screws.
- Ensure that the transport roll bearings are located correctly.
- 3. Perform the dC604 Registration Setup procedure.

REP 80.11 Left Door Latch Assembly

Parts List on PL 80.11

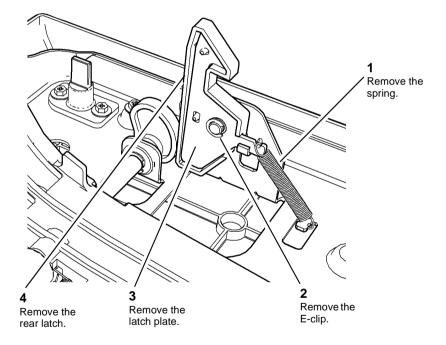
Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

NOTE: The the following procedure illustrates the removal of the rear latch assembly. The removal procedure for the front latch assembly is the same.

- 1. Open the left door, PL 80.10 Item 1.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 3. Raise the duplex transport assembly, PL 80.22 Item 1.
- 4. Remove the rear latch assembly, Figure 1.



W-1-1059-A

Figure 1 Removal

5. Repeat the steps shown in Figure 1 in order to remove the front latch assembly.

Replacement

1. Replacement is the reverse of the removal procedure.

W-1-0663-A

REP 80.12 Duplex Motor Assembly

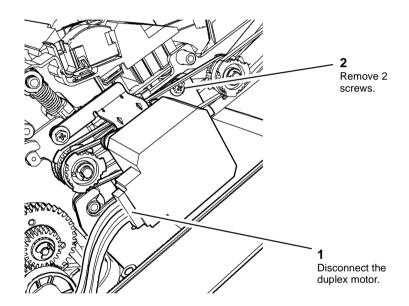
Parts List on PL 80.22

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Open the left door, PL 80.10 Item 1.
- Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- Remove 2 screws, then remove the duplex drives cover, PL 80.22 Item 21.
- Prepare to remove the duplex motor assembly, Figure 1.



5. Remove the duplex motor assembly, Figure 2.

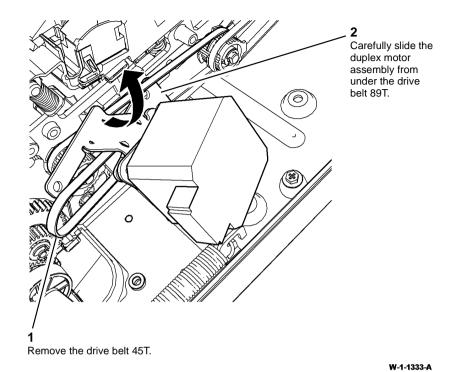


Figure 2 Remove the assembly

Replacement

1. Replacement is the reverse of the removal procedure. Refer to GP 6 before the screws are installed.

W-1-1332-A

Figure 1 Preparation



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the bypass tray assembly, REP 70.2.
- 2. Remove the left door cover, Figure 1.

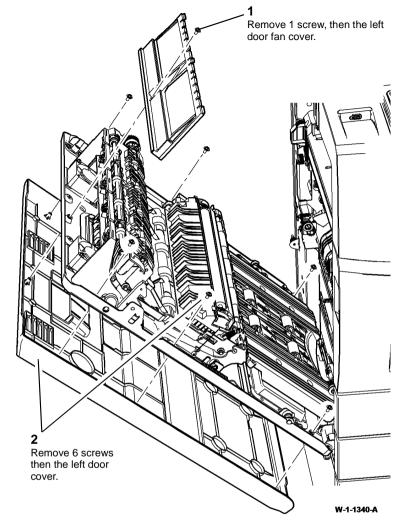


Figure 1 Cover removal

Replacement

- 1. Reposition the left door cover onto the door frame.
- 2. Ensure the latch handle, PL 80.11 Item 12 and IOT PWB to Bypass tray intermediate harness PL 70.35 Item 30 are not trapped under the left door cover.

NOTE: Refer to GP 6 before the screws are installed.

- 3. With the left door and cover in the closed position, temporarily hold the left door cover in place with the 2 external bypass tray assembly fixing screws.
- 4. Open the left door.
- 5. Install the six screws, refer to Figure 1.
- 6. Install the left door fan cover, refer to Figure 1.
- Remove the 2 external temporary fixing screws, then install the bypass tray assembly, REP 70.2.

REP 80.14 Tray 4 Feed Sensor

Parts List on PL 80.33

Removal

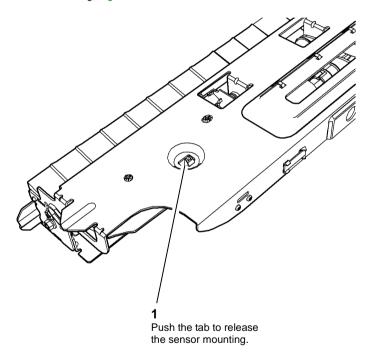


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 4 paper feed assembly, REP 80.21.
- 2. Release the sensor mounting, Figure 1.



W-1-0739-A

Figure 1 Sensor mounting release

3. Remove the tray 4 feed sensor, Figure 2.

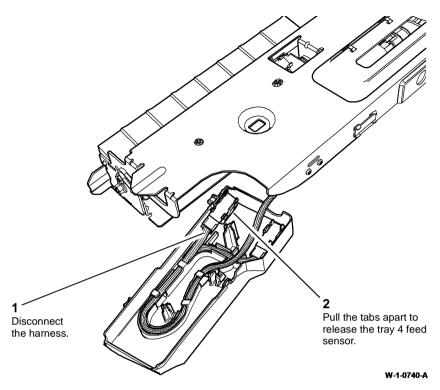


Figure 2 Sensor removal

Replacement

Replacement is the reverse of the removal procedure.

REP 80.15 Bypass Tray Feed Roll Assembly

Parts List on PL 70.35

Removal

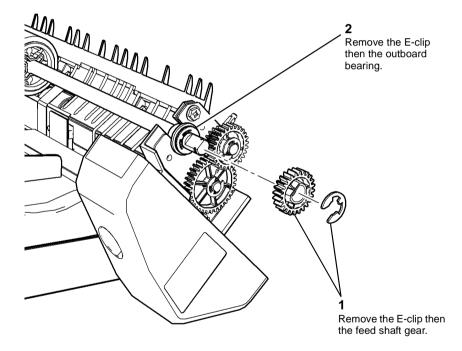


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bypass tray assembly, REP 70.2.
- 2. Prepare to remove the feed roll assembly, Figure 1.



W-1-1260-A

Figure 1 Feed roll front fixings

3. Remove the feed clutch and feed roll assembly, Figure 2.

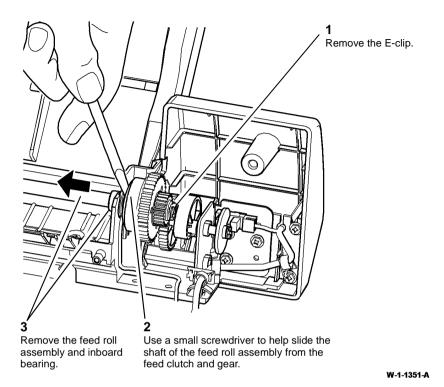


Figure 2 Feed roll and clutch assemblies

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Ensure the clutch locates with the dowel pin on the feeder frame, Figure 3.

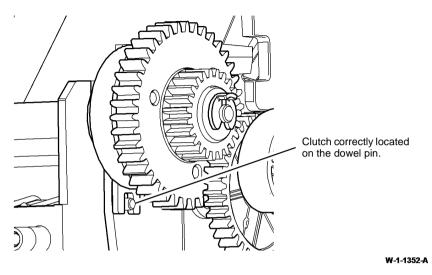


Figure 3 Dowel pin

 If a new feed roll is installed, reset the tray 5 feed roll HFSI count. Refer to dC135 CRU/ HFSI Status.

REP 80.16 Bypass Tray Retard Roll Assembly

Parts List on PL 70.35

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



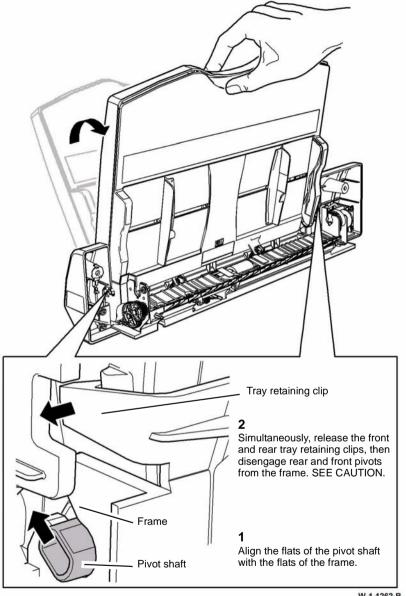
Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the bypass tray feed roll assembly, REP 80.15.



Take care not to damage the wiring harness between the tray assembly and the feeder frame.

Release the tray assembly, Figure 1.



W-1-1262-B

Figure 1 Bypass tray release

3. Remove the front gears, Figure 2.

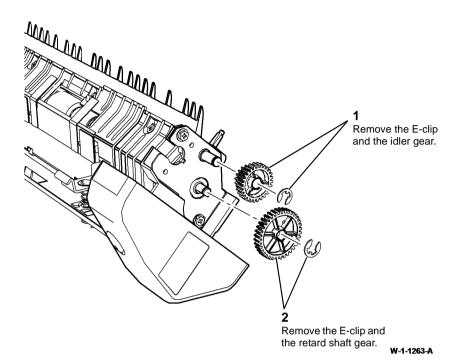
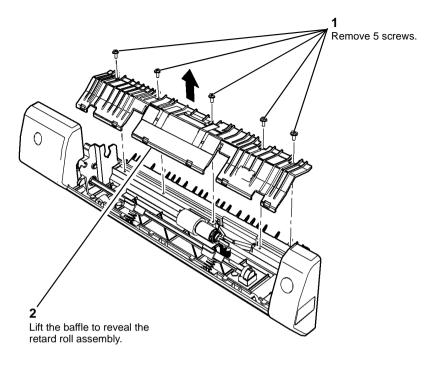


Figure 2 Gears removal

4. Release the baffle, Figure 3.



W-1-1264-A

Figure 3 Baffle release

5. Remove the retard roll assembly, Figure 4.

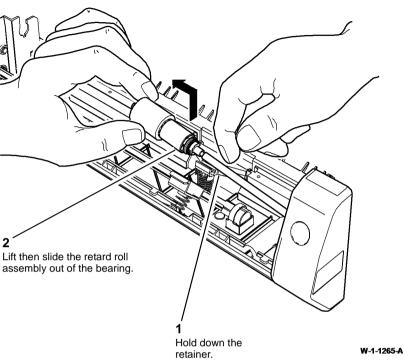


Figure 4 Retard roll removal

Replacement

- 1. Replacement is the reverse of the removal procedure.
- If a new retard roll assembly is installed, reset the tray 5 feed roll HFSI count. Refer to dC135 CRU/HFSI Status.

REP 80.17 Tray 3 and Tray 4 Feed Assembly Feed Rolls

Parts List on PL 80.32, PL 80.33

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: This procedure illustrates a tray 4 feed assembly. The procedure for the tray 3 feed assembly is identical.

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.

- 1. Remove the relevant paper feed assembly:
 - Tray 3 paper feed assembly, REP 80.20.
 - Tray 4 paper feed assembly, REP 80.21.
- 2. Turn the paper feed assembly upside down and place on a flat work surface.

3. Remove the feed motor with the bracket, Figure 1.

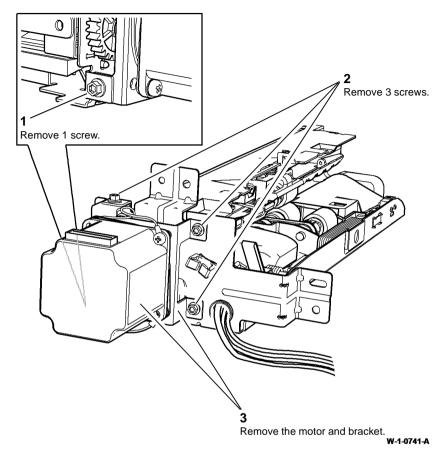


Figure 1 Motor and bracket removal

4. Release the rear fixings, Figure 2.

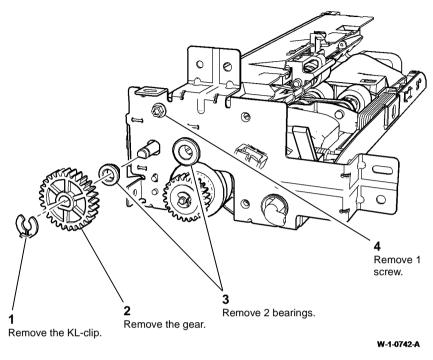


Figure 2 Rear fixings

5. Release the front fixings, Figure 3.

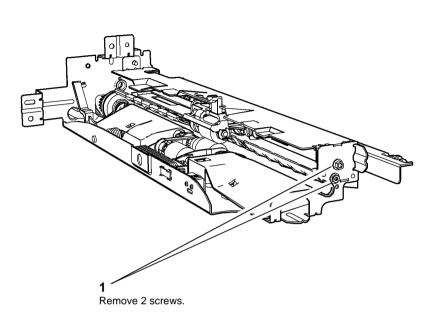


Figure 3 Front fixings

6. Separate the upper and lower frames, Figure 4.

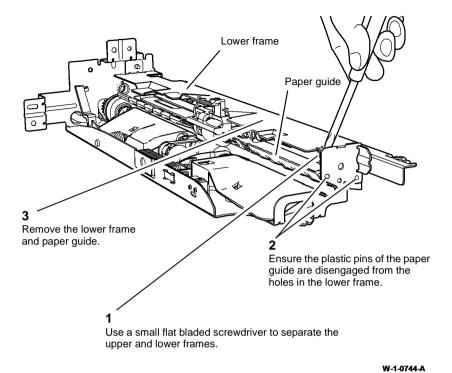
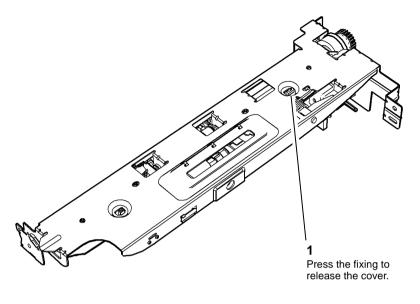


Figure 4 Frame separation

W-1-0743-A

7. Remove the plastic cover, Figure 5.

8. Remove the nudger roll and feed roll assembly, Figure 6.



Remove the KL-clip and slide the bearing out of the frame.

Remove the KL-clip and slide the bearing out of the frame.

Figure 5 Cover removal

Figure 6 Nudger and feed roll removal

W-1-0745-A

W-1-0746-A

9. Remove the retard roller, Figure 7.

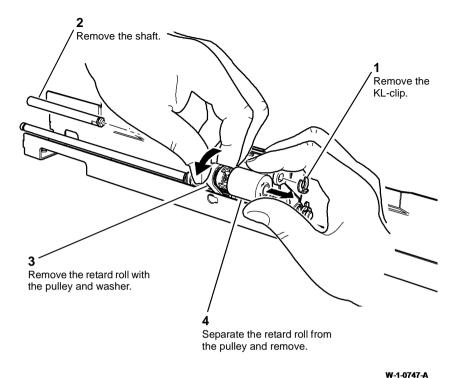
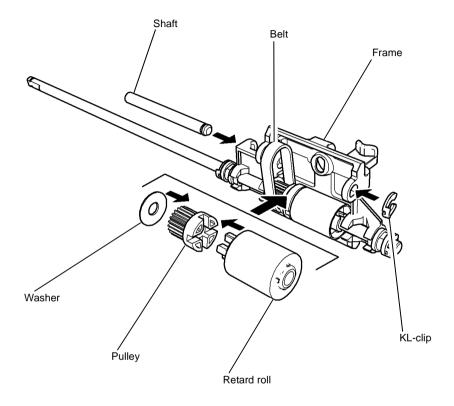


Figure 7 Retard roll removal

Replacement

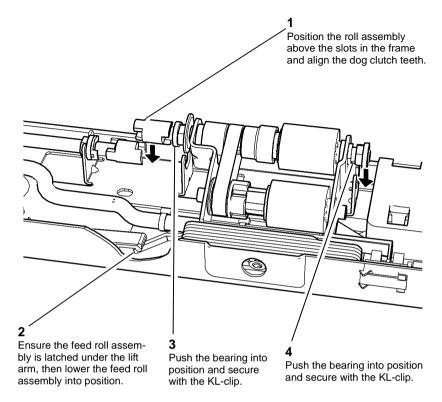
- 1. Install the retard roll by reversing the steps in Figure 7.
- 2. If necessary refer to Figure 8 for the correct assembly of the retard roll components.



W-1-0748-A

Figure 8 Exploded view of the retard assembly

 Check that the number of weights on the new nudger roll and feed roll assembly is the same as on the old assembly. If necessary, correct the number of weights. Refer to ADJ 80.3. 4. Install the nudger roll and feed roll assembly, Figure 9.



W-1-0749-A

Figure 9 Nudger and feed roll install

Fasten the plastic cover into position ensuring that the wiring is not trapped, refer to Figure 5. 6. Assemble the upper and lower frames, Figure 10.

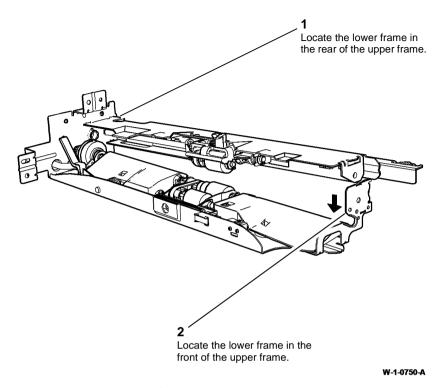


Figure 10 Frame assembly

- 7. Assemble the paper guide to the lower frame.
 - 8.Refer to:
 - REP 80.28 Tray 3 paper guide.
 - REP 80.29 Tray 4 paper guide.

- 9. Align and secure the upper and lower frames, Figure 11.
 - Protrusion

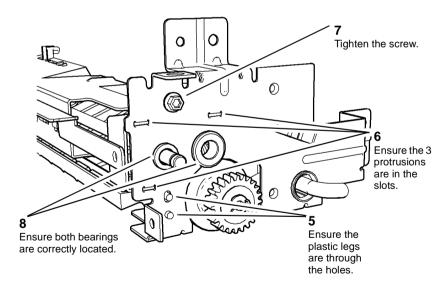
 Tighten the machine screw.

 Tighten the taptite screw in the plastic guide.

 Plastic leg

 Ensure the 2 protrusions are in the slots.

 Ensure the 2 plastic legs are through the holes.



W-1-0751-A

Figure 11 Final assembly

- 10. Install the remainder of the removed components, Figure 2 and Figure 1.
- 11. Install the feeder assembly into the machine. Check the feeding performance of the HCF.
- 12. Reset the HFSI count. Refer to dC135 CRU/HFSI Status

REP 80.18 Tray 1 and Tray 2 Feed Rolls

Parts List on PL 80.26 Removal

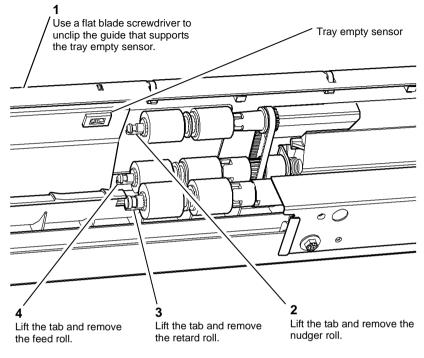
Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove tray 1 or tray 2 as required, REP 70.1.
- 2. Remove tray 1 or tray 2 paper feed assembly as required, REP 80.1.
- 3. Remove tray 1 or tray 2 feed rolls, Figure 1.

NOTE: The removal procedure is the same for the tray 1 and tray 2 feed, nudger and retard rolls. The feed and nudger rolls are the same diameter, but the retard roll has a larger diameter.



W-1-0705-A

Figure 1 Feed rolls removal

Replacement

- The replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.
- 2. Ensure that the tabs on the feed, nudger and retard rolls are located in their drive shafts.
- Check that the tray empty sensor is located in the guide, and that the guide is located correctly and secure on the feeder frame.
- 4. Check the registration. Refer to dC604 Registration Setup Procedure.
- If a new feed, nudger and retard roll are installed, reset the tray 1 or tray 2 feed roll HFSI count. Refer to dC135 CRU/HFSI Status.

REP 80.19 Tray 1 and Tray 2 Retard Roll Friction Clutch Parts List on PL 80.26 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the retard roll, REP 80.18.
- 2. Remove the clutch coupling, PL 80.26 Item 13.
- 3. Remove the friction clutch, PL 80.26 Item 2.

Replacement

The replacement is the reverse of the removal procedure.

REP 80.20 Tray 3 Paper Feed Assembly

Parts List on PL 80.32

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.

- 1. Pull out tray 3.
- 2. Remove the lower rear cover, PL 70.26 Item 1.

3. Remove the tray 3 paper feed assembly, Figure 1.

7 Carefully slide out the tray 3 paper feed assembly, Ensure the harnesses of the tray 3 ensuring that harnesses are not damaged. paper feed assembly are released from their cable ties. Tray 3 paper feed assembly Remove 2 screws. Disconnect P/J505. Disconnect 2 in-line connectors. (W/O TAG 003 Only) Disconnect the in-line connector. Disconnect the tray 3 home sensor.

W-1-0716-A

Figure 1 Feed assembly removal

Replacement

NOTE: New paper feeder assemblies come ready configured for use in tray 4. When a new tray 3 paper feeder is required, follow the steps below.

NOTE: W/Tag 003 paper feed assemblies do not have a tray over elevate switch. An over elevate switch bypass harness must also installed. Strike Tag 003 on the Mod/Tag plate.

1. If a new tray 3 paper feed assembly is being installed, perform steps 2 to 9. If the old tray 3 paper feed assembly is being re-installed, perform steps 5 to 9.

2. Remove the support bracket, Figure 2.

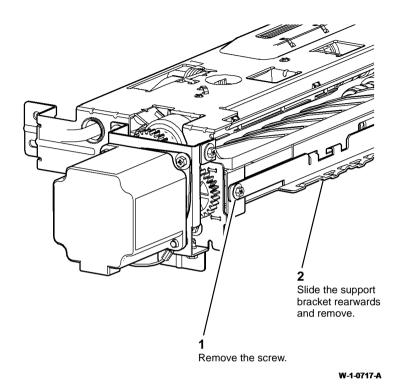


Figure 2 Support bracket removal

- . Remove the tray 4 paper guide, REP 80.29.
- 4. Install the tray 3 paper guide, REP 80.28.

5. Install the paper feed assembly, Figure 3.

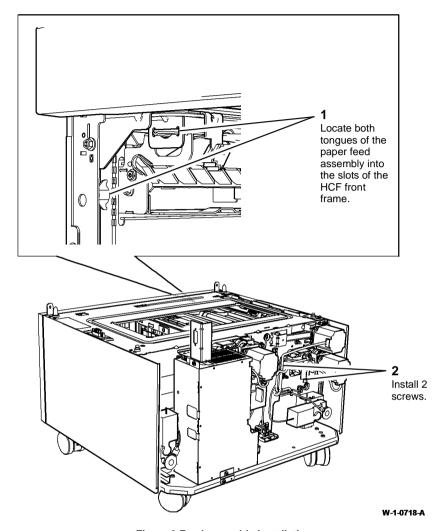


Figure 3 Feed assembly installation

- 6. Push tray 3 in slowly and check that the tray does not foul the paper feed assembly.
- 7. Connect the 5 PJs, refer to Figure 1.
- The remainder of the replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.
- If a new paper feed assembly has been installed, reset the tray 3 feed roll HFSI count. Refer to dC135 CRU/HFSI Status.

REP 80.21 Tray 4 Paper Feed Assembly

Parts List on PL 80.33

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



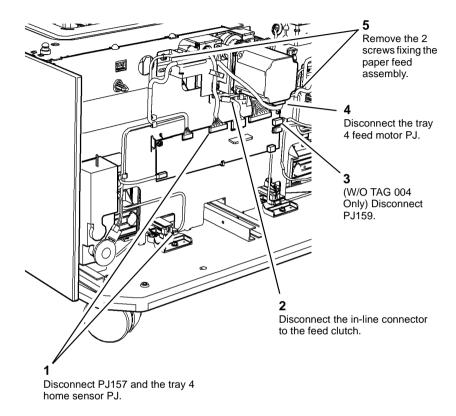
Take care during this procedure. Sharp edges may be present that can cause injury.

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface. The videos depict a W/O TAG 009 machine. However, the mechanical removal and installation of a W/TAG 009 and W/O TAG 009 tray 4 paper feed assembly are identical, only the wiring connections differ.

- 1. Remove the LVPS module, REP 1.1.
- 2. Pull out tray 4.
- 3. Remove the tray 4 paper feed assembly:
 - W/O TAG 009 machines, Figure 1.
 - W/TAG 009 machines, Figure 2.

7Carefully remove the paper feed assembly, from the rear of the machine.

Ensure the harnesses of the tray 4 paper feed assembly are released from their cable ties.



Remove the 2 screws fixing the paper feed assembly.

2 Disconnect the tray 4 feed motor PJ.

1 Disconnect the in-line connector to the feed clutch.

Ensure the harnesses of the tray 4 paper feed assembly are released from their cable ties.

Carefully remove the paper feed assembly, from the rear of the machine.

W-1-1445-A

Figure 2 Feed assembly removal (W/TAG 009)

W-1-1298-A

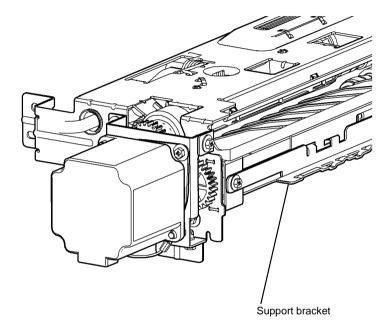
Figure 1 Feed assembly removal (W/OTAG 009)

Replacement

NOTE: W/O TAG 009 machines, W/TAG 004 paper feed assemblies do not have a tray over elevate switch. An over elevate switch bypass harness must also installed. Strike Tag 004 on the Mod/Tag plate.

W/TAG 009 machines, W/TAG 004 paper feed assemblies do not have a tray over elevate switch and do not require the installation of an over elevate switch bypass harness.

1. Ensure the support bracket is present on the tray 4 paper feed assembly, Figure 3.



W-1-0714-A

Figure 3 Support bracket

- 2. Install the paper feed assembly:.
 - W/O TAG 009 machines, Figure 4.
 - W/TAG 009 machines, Figure 5.

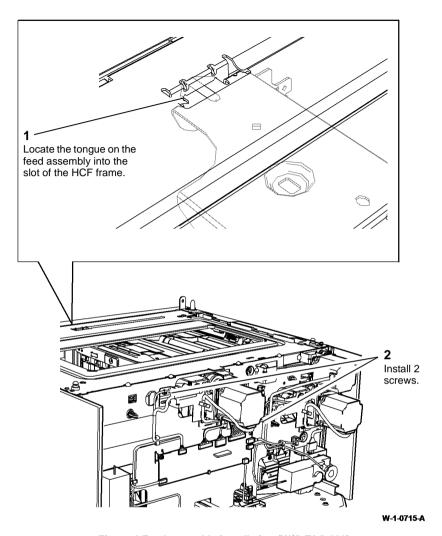
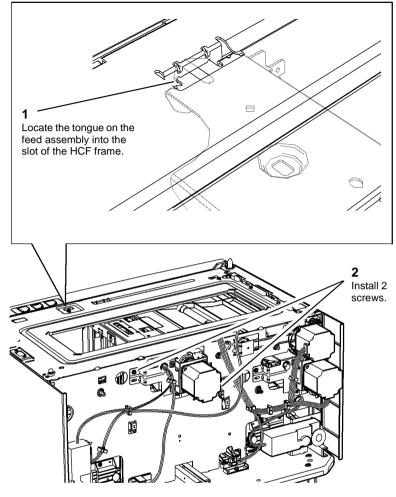


Figure 4 Feed assembly installation (W/O TAG 009)



W-1-1446-A

Figure 5 Feed assembly installation (W/TAG 009)

- 3. Ensure that the tray slide, at the rear right of the tray 4 transport assembly, straddles the support bracket when the paper feed assembly is replaced.
- 4. Push tray 4 in slowly and check that the tray does not foul the paper feed assembly.
- 5. Connect the PJs, refer to Figure 1 (W/O TAG 009) or Figure 2 (W/TAG 009).
- The remainder of the replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.
- If a new paper feed assembly has been installed, reset the tray 4 feed roll HFSI count. Refer to dC135 CRU/HFSI Status.

REP 80.22 HCF Transport Motor

Parts List on PL 80.36 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care during this procedure. Motors will become hot during normal operation.

1. Remove lower rear cover, PL 70.26 Item 1.

2. Remove the HCF transport motor, Figure 1.

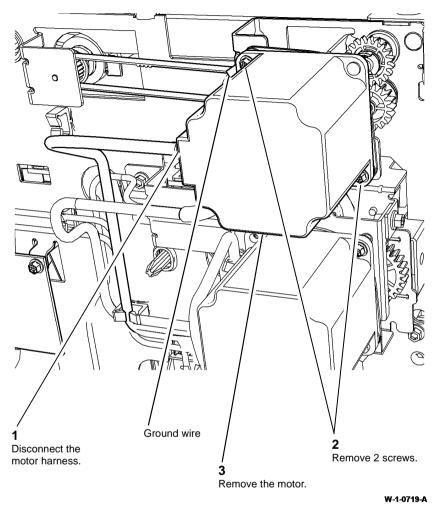


Figure 1 Transport motor removal

Replacement

1. Replacement is the reverse of the removal procedure. Ensure that the ground wire is installed between the motor and the frame, Figure 1.

REP 80.23 Tray 4 Transport Gear Pulley

Parts List on PL 80.36

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the lower rear cover, PL 70.26 Item 1.
- 2. Remove the HCF transport motor, REP 80.22.
- 3. Remove the transport gear pulley, Figure 1.

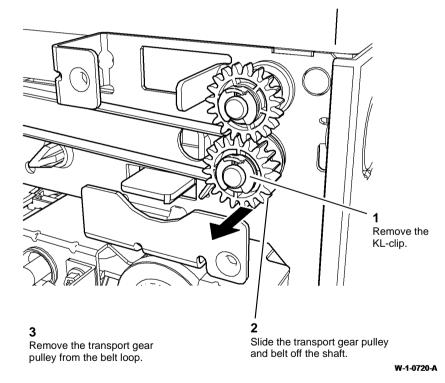


Figure 1 Transport gear removal

Replacement

1. Install the transport gear pulley, Figure 2.

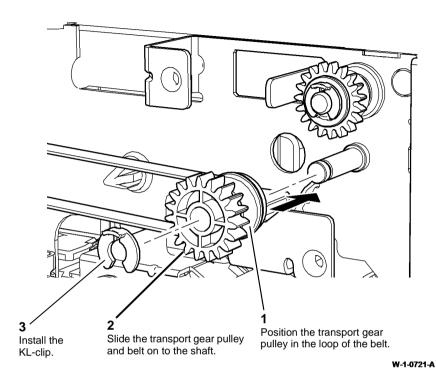


Figure 2 Drive belt installation

2. The remainder of the replacement is the reverse of the removal procedure.

REP 80.24 Tray 4 Transport Assembly

Parts List on PL 80.36

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

1. Remove the tray 4 transport assembly, Figure 1.

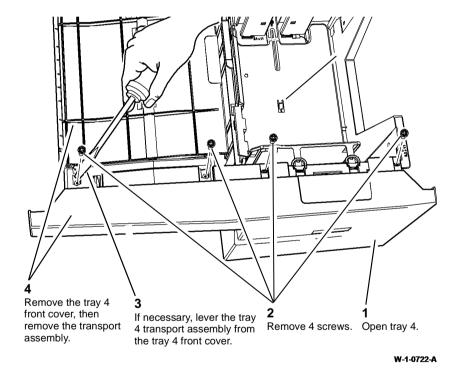


Figure 1 Transport assembly removal

Replacement

- Ensure that the tray slide at the rear right of the tray straddles the support bracket when the tray is replaced.
- The remainder of the replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.

REP 80.25 Tray 4 Exit Sensor

Parts List on PL 80.33 Removal

1

Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 3 assembly, REP 70.5.
- 2. Remove the tray 4 assembly, REP 70.14.
- 3. Remove the tray 4 exit sensor, Figure 1.

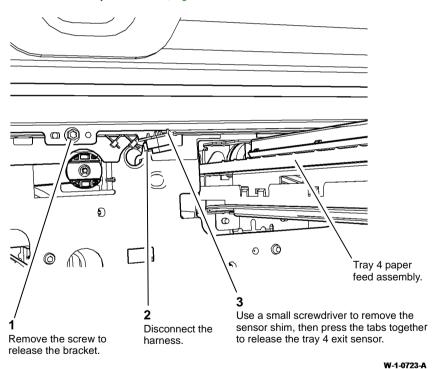


Figure 1 Tray 4 exit sensor removal

Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Install a new sensor shim to lock the sensor in place.

REP 80.26 Tray 4 Takeaway Roll Assembly

Parts List on PL 80.36

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 4 transport assembly, REP 80.24.
- 2. Remove the jam clearance door, Figure 1.

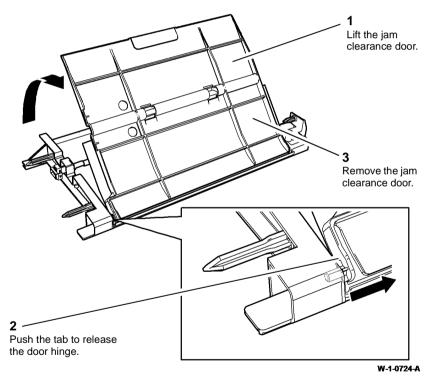


Figure 1 Jam clearance door removal

3. Remove the takeaway roll assembly, Figure 2.

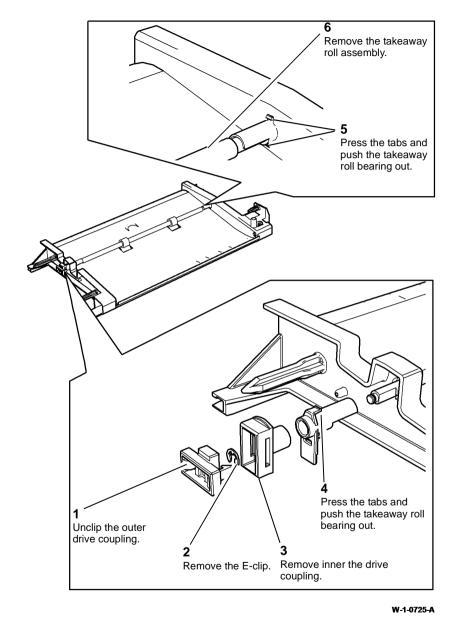


Figure 2 Takeaway roll removal

If necessary, remove the tray 4 transport brace, Figure 3, and the idler roll assembly, Figure 4.

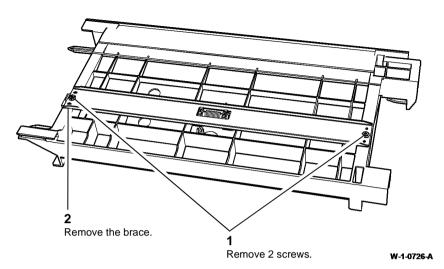


Figure 3 Brace removal

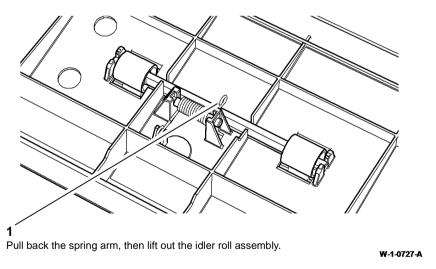


Figure 4 Idler rolls removal

Replacement

Replacement is the reverse of the removal procedure.

REP 80.27 HCF Transport Roll and Idler Roll

Parts List on PL 80.32 and PL 80.33.

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the lower left cover, PL 70.26 Item 7.
- 2. Remove the tray 3 assembly, REP 70.5.
- 3. Remove the tray 4 transport assembly, REP 80.24.
- 4. Remove the idler roll assembly, Figure 1.

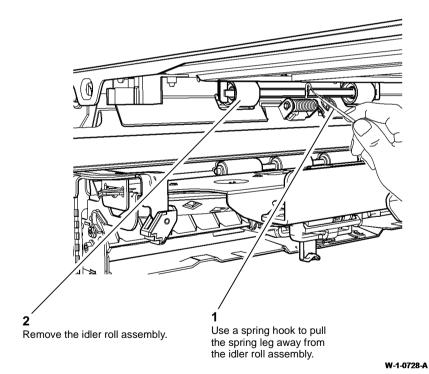
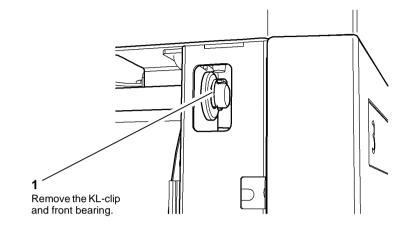


Figure 1 Idler shaft removal

- 5. Remove the HCF transport motor, REP 80.22.
- 6. Prepare to remove the HCF transport roll, Figure 2.



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Figure 2 Preparation

7. Remove the HCF transport roll, Figure 3.

6

Slide the HCF transport roll to the front and remove.

5

Slide the HCF transport roll to the rear to release the roll from the front of the frame.

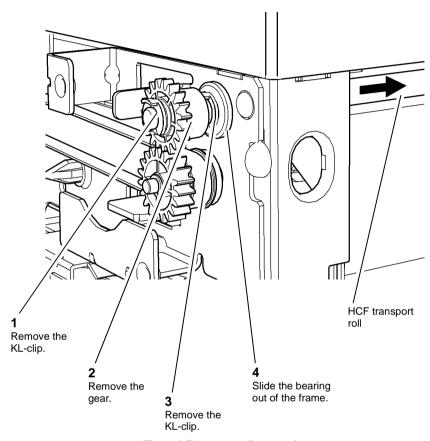


Figure 3 Transport roll removal

Replacement



When installing the gear on the shaft, take care not to damage the one-way clutch in the centre of the gear. Before tightening the motor screws, adjust the position of the motor so that there is a very small amount of backlash between the gears.

 The replacement is the reverse of the removal procedure. Refer to GP 6 before refitting the screws.

REP 80.28 Tray 3 Paper Guide

Parts List on PL 80.32

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the tray 3 paper feed assembly, REP 80.20.
- 2. Remove the tray 3 paper guide, Figure 1.

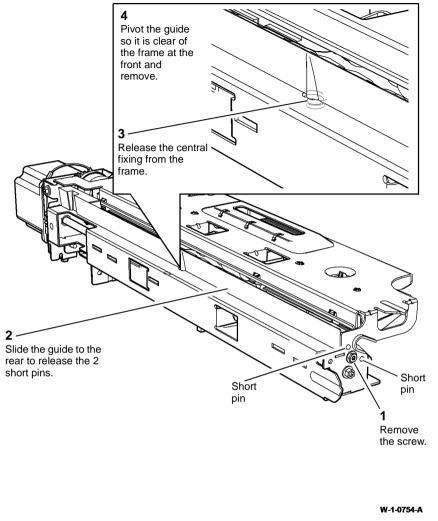


Figure 1 Paper guide removal

Replacement

1. Install the tray 3 paper guide, Figure 2.

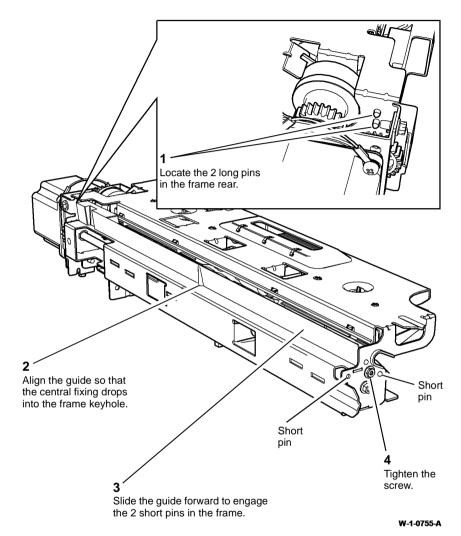


Figure 2 Paper guide replacement

2. The remainder of the replacement is the reverse of the removal procedure.

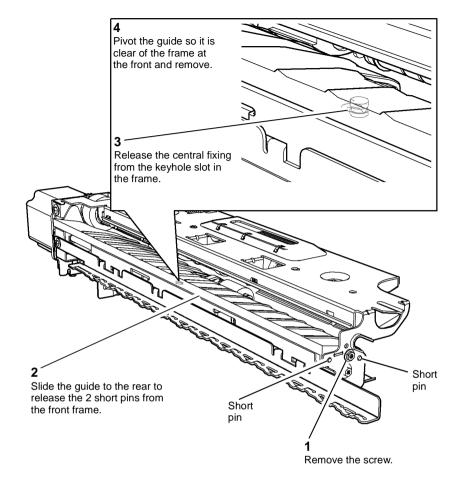
REP 80.29 Tray 4 Paper Guide

Parts List on PL 80.33 Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the tray 4 paper feed assembly, REP 80.21.
- 2. Remove the tray 4 paper guide, Figure 1.



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Figure 1 Paper guide removal

Replacement

1. Install the tray 4 paper guide, Figure 2.

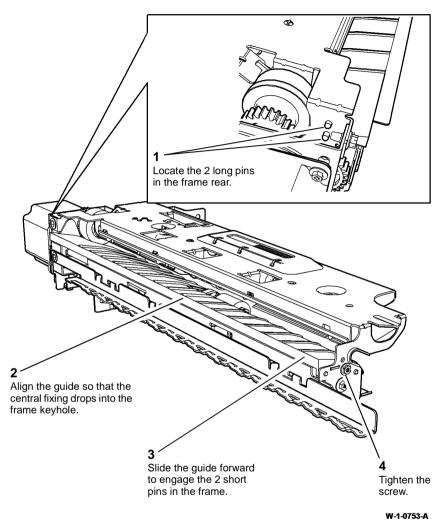


Figure 2 Paper guide replacement

2. The remainder of the replacement is the reverse of the removal procedure.

REP 80.30 Tray 3 Feed Sensor

Parts List on PL 80.32 Removal

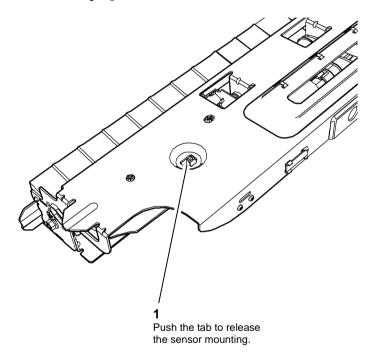


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the tray 3 paper feed assembly, REP 80.20.
- 2. Release the sensor mounting, Figure 1.



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Figure 1 Sensor mounting release

3. Remove the tray 3 feed sensor, Figure 2.

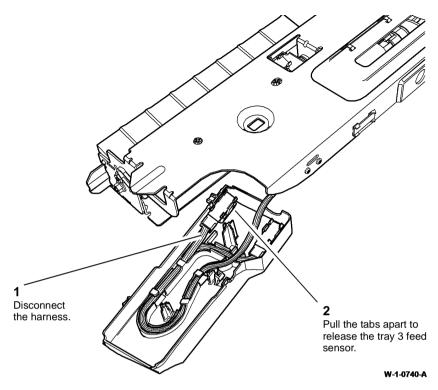


Figure 2 Sensor removal

Replacement

Replacement is the reverse of the removal procedure.

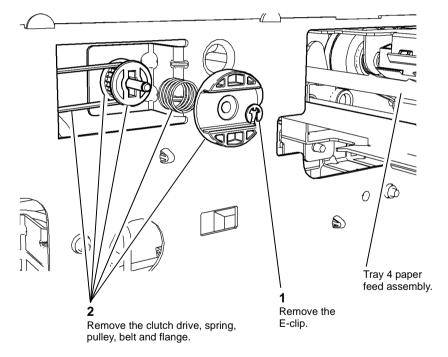
REP 80.31 Tray 4 Transport Clutch Drive Assembly Parts List on PL 80.36

Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove tray 1 and 2, REP 70.1.
- 2. Remove the tray 4 transport assembly, REP 80.24.
- 3. Remove tray 3 REP 70.5.
- 4. Remove the tray 4 transport gear pulley, REP 80.23.
- 5. Remove the tray 4 transport clutch drive assembly, Figure 1.



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Figure 1 Clutch drive removal

Replacement

- 1. If the flange has come off the pulley, locate the flange onto the pulley ensuring the three small pins locate correctly in the three holes in the pulley.
- 2. Assemble the belt, pulley, spring and clutch drive onto the shaft so that the legs of the clutch drive engage in the pulley. Rotate the pulley so that the central cut-out is vertical.
- 3. The E-clip is very small and difficult to locate in the groove of the shaft. Grip the E-clip with long nose pliers, compress the spring by pressing the clutch drive to the rear. Place the E-clip in the groove by passing the end of the pliers through the access hole in the base of the tray 1 and 2 cavity then snap the E-clip onto the shaft by re-positioning the pliers.
- 4. The remainder of the replacement is the reverse of the removal procedure.

REP 80.32 Tray 3 or Tray 4 Feed Clutch

Parts List on PL 80.32, PL 80.33.

Removal

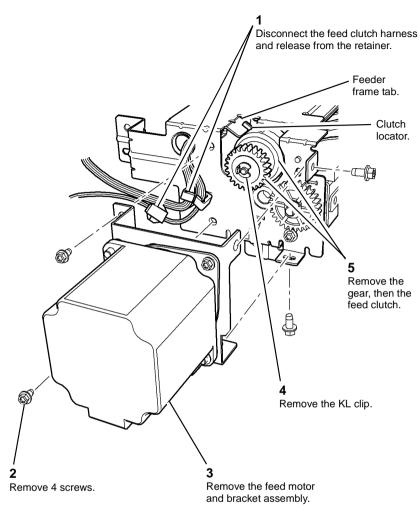


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the appropriate paper feed assembly:
 - REP 80.20 for tray 3.
 - REP 80.21 for tray 4.
- 2. Remove the feed clutch, Figure 1.



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Figure 1 Feed clutch removal

Replacement

- Replacement is the reverse of the removal procedure.
- 2. Ensure that the clutch locator is engaged with the feeder frame tab, Figure 1.

REP 80.33 Left Door Harness Set

Parts List on PL 80.10.

Set contents

This harness set consists of the items that follow:

- IOT PWB to left door harness, PL 1.10 Item 23.
- IOT PWB to bypass tray intermediate harness, PL 70.35 Item 30.
- Duplex motor harness, PL 80.22 Item 23.
- Left door sensor and fan harness. PL 80.10 Item 13.

IOT PWB to Left Door Harness Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Switch off the machine, GP 14.
- 2. Remove the rear cover, REP 28.2.
- 3. Disconnect PJ198/199 and PJ226/227, refer to PJ locations Figure 9.
- 4. Disconnect PJ757, PJ759 and PJ750 from the IOT PWB, refer to PJ locations Figure 15.
- Release the harness from the harness retainers, then remove the harness from the machine.

IOT PWB to Left Door Harness Replacement

- 1. Replacement is the reverse of the removal procedure.
- Ensure the harness is located correctly and held securely with harness retainers.

IOT PWB to Bypass Tray Intermediate Harness Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Switch off the machine, GP 14.
- 2. Remove the rear cover, REP 28.2.
- 3. Remove the left door cover, REP 80.13.
- 4. Partially open tray 2 to improve the access to the harness and connectors.
- Disconnect PJ198/199, refer to PJ locations Figure 9.

- Release the harness from two harness retainers on the IOT frame, then release the harness from the harness retainer on the left door frame.
- 7. Remove the harness through the holes in the IOT frame and left door frame.

IOT PWB to Bypass Tray Intermediate Harness Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Ensure the harness is located correctly and held securely with harness retainers.

Duplex Motor Harness Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Switch off the machine, GP 14.
- 2. Remove the rear cover. REP 28.2.
- Remove the left door cover, REP 80.13.
- Partially open tray 2 to improve the access to the harness and connectors.
- Disconnect PJ222/223, refer to PJ locations Figure 9.
- Release the harness from two harness retainers on the IOT frame, then release the harness from the harness retainers on the left door frame.
- Disconnect the harness from the duplex motor, then remove the harness through the holes in the IOT frame and left door frame.

Duplex Motor Harness Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Ensure the harness is located correctly and held securely with harness retainers.

Left Door Sensor and Fan Harness Removal



Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- Perform REP 80.2 Tray 1 and Tray 2 TAR Sensors and Lower Left Door Paper Guide to release the left door sensor and fan harness from the tray 1 and tray 2 tar sensors.
- Remove the left door cover. REP 80.13.
- 3. Close the left door. Disconnect the harness from the duplex sensor, Figure 1.

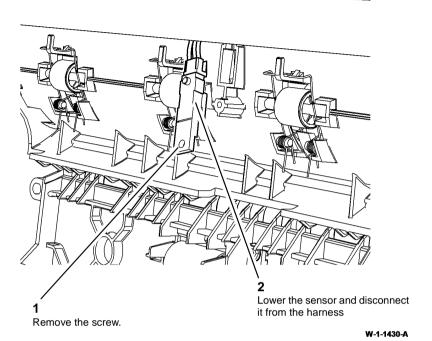


Figure 1 Duplex sensor disconnection

- Open the left door. Disconnect the harness from the left door fan 1 and left door fan 2, PL 80.11 Item 9.
- 5. Disconnect PJ226/227, refer to PJ locations Figure 9.
- Release the harness from two harness retainers on the IOT frame, then release the harness from the harness retainers on the left door frame.
- 7. Remove the harness through the holes in the IOT frame and left door frame.

Left Door Sensor and Fan Harness Replacement

- 1. Replacement is the reverse of the removal procedure.
- 2. Ensure the harness is located correctly and held securely with harness retainers.

REP 80.34 Bypass Tray Mylar Retard Shield Parts List on PL 70.35 Removal

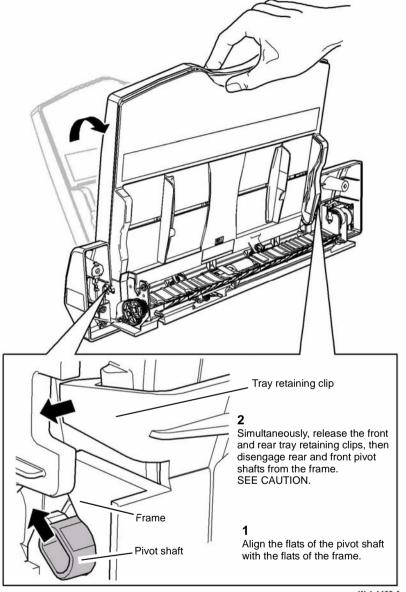


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the bypass tray assembly, REP 70.2.
- Release the bypass elevate tray assembly to gain access to the mylar retard shield, Figure 1.



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Figure 1 Access the retard shield

3. Remove the mylar retard shield, Figure 2.

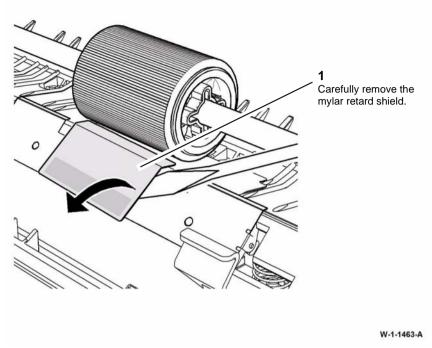


Figure 2 Retard shield removal

Replacement

1. Install the mylar retard shield, Figure 3.

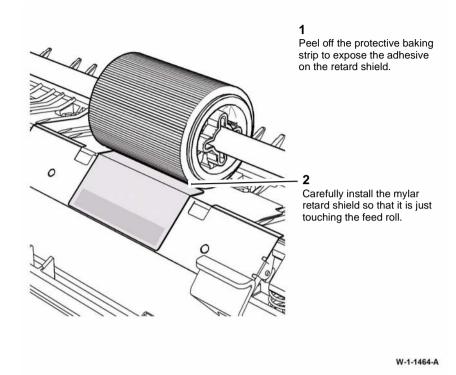


Figure 3 Retard shield installation

2. Ensure that the mylar retard shield is making contact with the feed roll

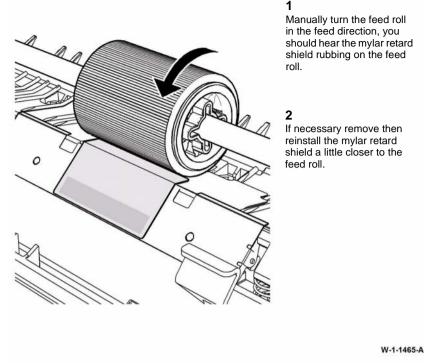


Figure 4 Check the contact pressure

- 3. Install the bypass tray elevate assembly, refer to Figure 1.
- 4. Install the bypass tray assembly, REP 70.2.
- Check the paper feeding performance. If necessary perform ADJ 80.4 Bypass Tray Nip Pressure.

REP 80.35 Left Door Fan 1 and Fan 2

Parts List on PL 80.11.

Removal

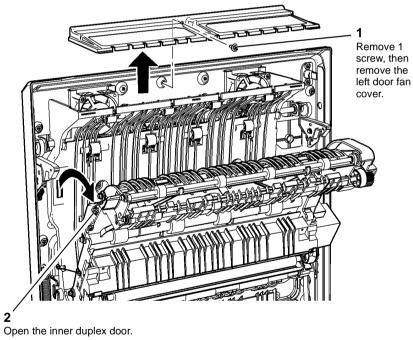


Switch off the electricity to the machine, GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Open the left door.
- 2. Figure 1, prepare to remove the left door fans.



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Figure 1 Preparation

3. Figure 2, remove the left door fans.

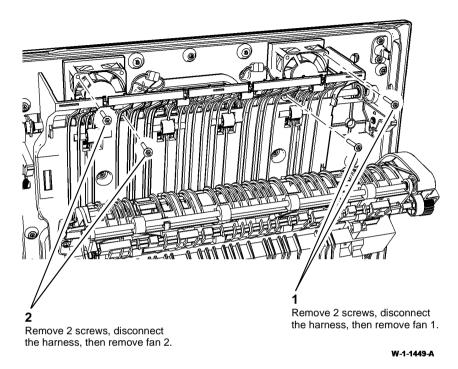


Figure 2 Left door fans removal

Replacement

Replacement is the reverse of the removal procedure.

REP 90.1 Toner Dispense Module

Parts List on PL 90.17

Removal

NOTE: A video of this procedure is available on the EDOC. The video is accessible from the Library menu on the Service Interface.

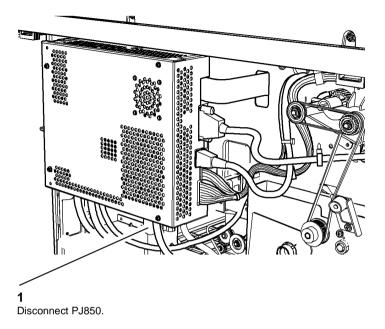


Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the toner cartridge, PL 90.17 Item 2.
- 2. Remove the print cartridge, PL 90.17 Item 9, then place in a lightproof bag.
- 3. Remove the rear cover, REP 28.2.
- 4. Remove the relevant component:
 - Centre output tray, REP 28.1.
 - Horizontal transport, REP 10.6.
- 5. Disconnect PJ850 from the SBC PWB, Figure 1.



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Figure 1 PJ850 disconnection

6. Remove the toner dispense module, Figure 2.

NOTE: For clarity, the SBC module is not shown in Figure 2.

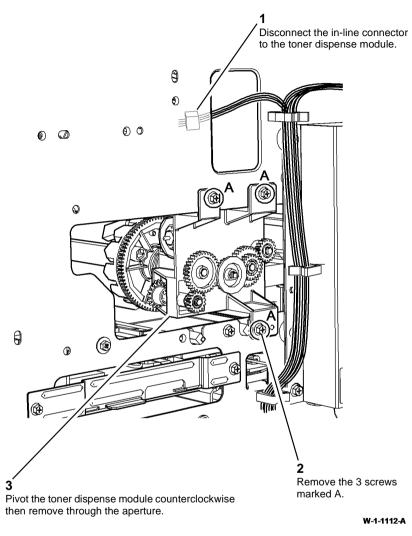


Figure 2 Module removal

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. When installing the toner dispense module, ensure the locating pins on the HVPS tray assembly are inserted in the holes in the toner dispense module, Figure 3.

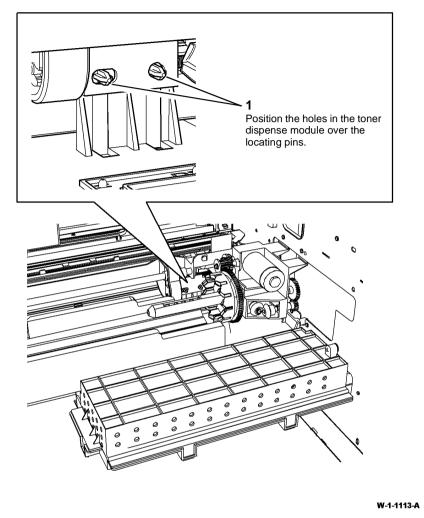


Figure 3 Installation

 Enter dC330 code 093-045, print cartridge motor. Add the code 093-040, toner cartridge motor. Run the components for 40 seconds.

NOTE: The routine 093-040 times out after 5 seconds. Run the routine 8 times to deliver 40 seconds of dispense.

REP 90.2 Latch Housing Assembly Parts List on PL 90.17

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the toner cartridge, PL 90.17 Item 2.
- 2. Remove the inner front cover, PL 28.10 Item 10.
- 3. Remove the toner cartridge latch housing, PL 90.17 Item 4.

Replacement

1. The replacement is the reverse of the removal procedure.

REP 90.3 HVPS Tray Assembly

Parts List on PL 90.10

Removal

NOTE: Removal and replacement videos of this procedure are available on the EDOC. The videos are accessible from the Library menu on the Service Interface.



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.



Take care not to damage the HVPS contacts and when removing or installing the HVPS cover assembly and HVPS tray assembly.

- Remove the LED print head module, REP 60.15.
- Remove the HVPS, REP 1.10.
- Remove the main drive module. REP 40.1.
- 4. Remove the toner dispense module, REP 90.1.
- Remove the toner cartridge latch housing, REP 90.2.
- 6. Un-clip the toner cartridge PWB cover, PL 90.17 Item 11. Remove the toner cartridge PWB, PL 90.17 Item 12. Do not disconnect the PWB from the harness, but unclip the harness from the HVPS top cover and release the harness clip from the frame at the corner of the HVPS top cover. Lay the PWB and harness on the frame base.

NOTE: The toner cartridge PWB is not present on W/TAG 013 machines.

7. Remove the HVPS top cover, Figure 1.

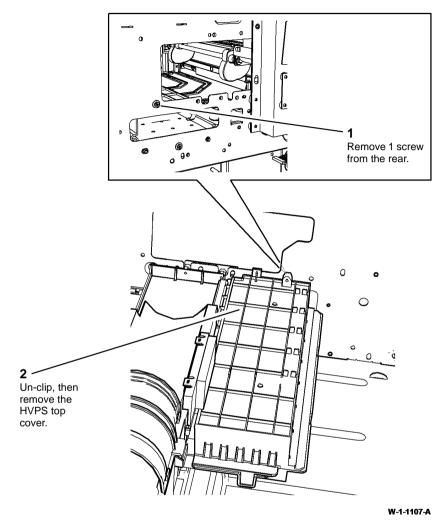


Figure 1 HVPS top cover removal

8. Remove the toner cartridge housing, Figure 2.

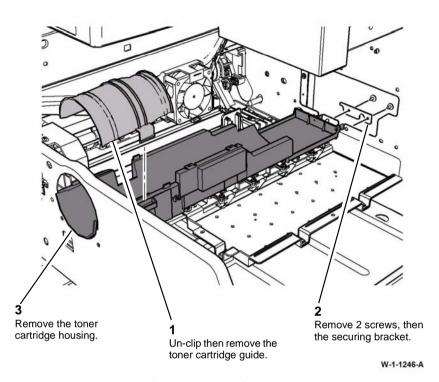


Figure 2 Toner cartridge removal

9. Prepare to remove the HVPS tray assembly, Figure 3.

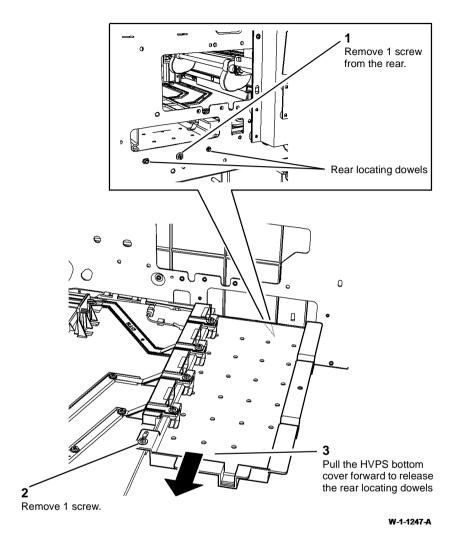


Figure 3 Preparation

10. Remove HVPS bottom cover and the HVPS tray assembly, Figure 4.

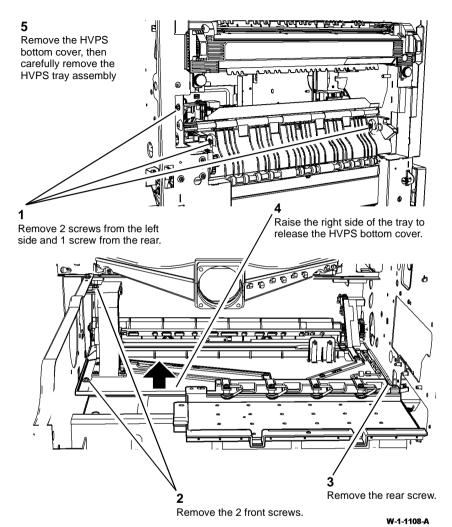


Figure 4 Removal

Replacement

1. Install the HVPS tray assembly, Figure 5.

NOTE: For clarity, the print cartridge fan duct is not shown in Figure 5.

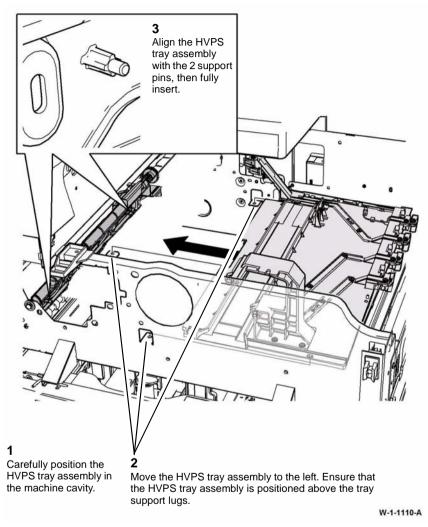


Figure 5 HVPS tray assembly installation

2. Install the HVPS bottom cover, Figure 6.

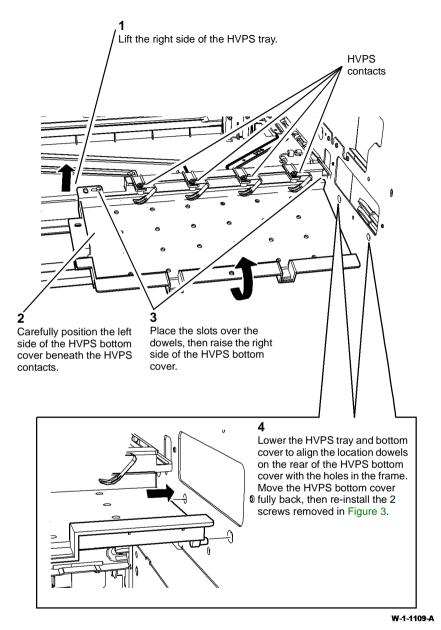


Figure 6 Bottom cover install



The short black self tapping screw locates in the rear track support, PL 90.10 Item 10.

- 3. Install the 6 screws removed in Figure 4.
- 4. Reverse the removal procedure to install the remaining components.

REP 90.4 Environmental Sensors Assembly

Parts List on PL 80.17

Removal



Switch off the electricity to the machine. Refer to GP 14. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.



Take care during this procedure. Sharp edges may be present that can cause injury.

- 1. Remove the registration transport assembly, REP 80.4.
- 2. Remove the environmental sensors PWB, Figure 1.

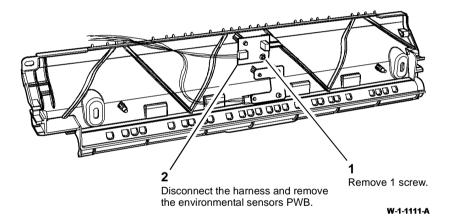


Figure 1 Removal

Replacement

1. The replacement is the reverse of the removal procedure.

ADJ 5.1 SPDH Drive Belts

Purpose

To correctly set the tension of all the drive belts in the SPDH.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Before this adjustment is performed, ensure all components removed in the repair procedure are installed correctly.

NOTE: All drive belts in the SPDH are tensioned by springs. Although all the belt drives are different to each other, the process of adjusting the belt tension is the same.

- 1. Loosen the screws that hold the motor or tensioning plate to the frame.
- 2. Allow the spring to tension the drive belt.
- Tighten the screws.

ADJ 5.2 SPDH Height

Parts List on PL 5.10 and PL 60.15

Purpose

To correctly set the distance between the scanner module and the SPDH.

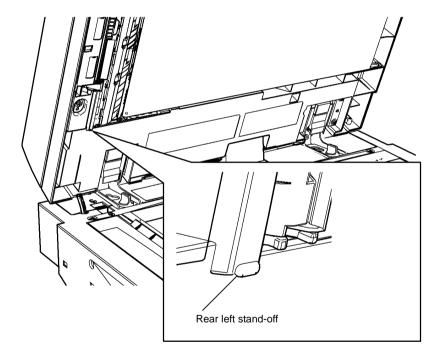
Important

This procedure must be performed in the order that follows:

- 1. Left Side Check
- 2. Left Side Adjustment, if necessary
- 3. Right Side Check
- 4. Right Side Adjustment, if necessary.

Left Side Check

 Check the gap between the rear left stand-off, Figure 1, and the CVT glass. Also check the gap between the front left stand-off, Figure 2, and the CVT glass.



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Figure 1 Rear left stand-off location

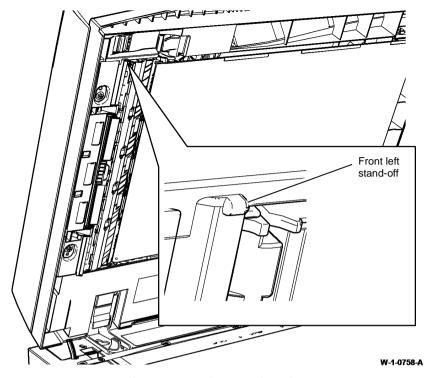


Figure 2 Front left stand-off location

- Switch the machine on, GP 14.
- Lift the SPDH then lower it back down so that the scanner module lamp illuminates. View the rear left stand-off gap, Figure 3, in the space between the SPDH and the scanner module. The rear left stand-off must just touch the CVT glass.

NOTE: Opening and closing the SPDH will only illuminate the scanner module lamp for approximately 6 seconds. If a longer duration of illumination is required, enter dC330 code 062-002 to illuminate the scanner module lamp.

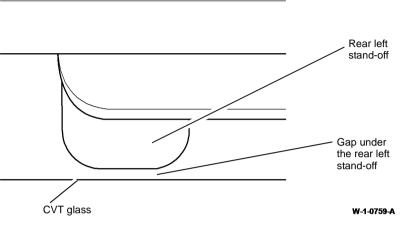
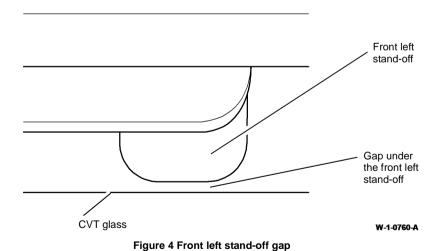


Figure 3 Rear left stand-off gap

4. View the front left stand-off gap, Figure 4, in the space between the SPDH and the scanner module. The front left stand-off must just touch the CVT glass.



If the front left stand-off, or rear left stand-off do not touch the CVT glass, perform the Left Side Adjustment.

Left Side Adjustment

The height of the SPDH is adjusted by the screws on the top of the counterbalances.
 Only the left counterbalance screw should be adjusted during the left side adjustment.

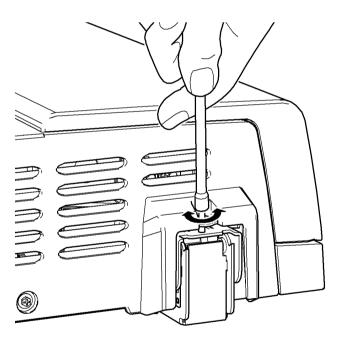
NOTE: Adjusting the height of the left side of the SPDH can effect the height of the right side of the SPDH and vise versa. Ensure that the height of all 3 stand-offs is checked at the end of the procedure.

2. Adjust the left counterbalance, Figure 5.

NOTE: It should only be necessary to adjust the height by approximately 1 turn of the adjustment screw. Observe the front left stand-off and rear left stand-off whilst adjusting the screw. Stop when they are both in contact with the CVT glass.

NOTE: If the rear of the SPDH is lowered too far then it will start to lift the front off the CVT glass.

NOTE: If the front of the SPDH is lowered too far then it will start to lift the rear off the CVT glass.



Turn the screw clockwise to raise the rear and lower the front of the SPDH.

Turn the screw counterclockwise to lower the rear and raise the front of the SPDH.

Right Side Check

1. Check the gap between the front right stand-off, Figure 6, and the document glass.

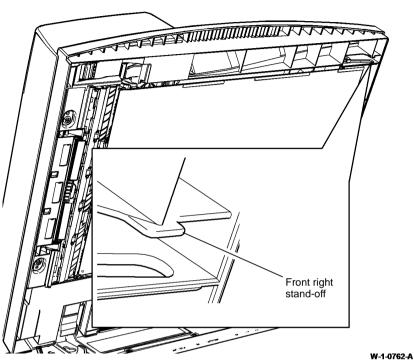
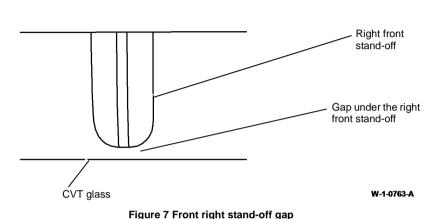


Figure 6 Front right stand-off location

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Figure 5 Left side adjustment

2. View the front right stand-off gap, Figure 7, in the space between the SPDH and the scanner module. The front right stand-off must just touch the document glass.



If the front right stand-off does not touch the CVT glass, perform the Right Side Adjustment.

Right Side Adjustment

The height of the SPDH is adjusted by the screws on the top of the counterbalances.
 Only the right counterbalance screw should be adjusted during the right side adjustment.

NOTE: Adjusting the height of the right side of the SPDH can effect the height of the left side of the SPDH and vise versa. Ensure that the height of all 3 stand-offs is checked at the end of the procedure.

2. Figure 8, adjust the right counterbalance.

NOTE: It should only be necessary to adjust the height by approximately 1 turn of the adjustment screw. Observe the stand-off whilst adjusting the screw. Stop when the front right stand-off is in contact with the document glass.

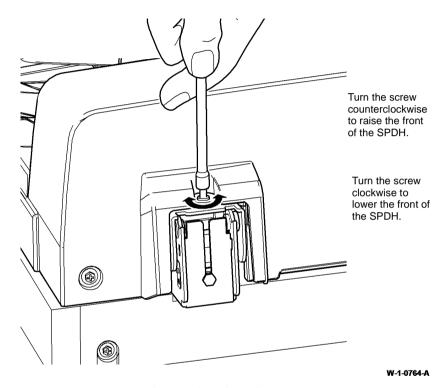


Figure 8 Right side adjustment

3. Check the height of all 3 stand-offs. Re-adjust the counterbalances if necessary. If mis-registration is found after the SPDH is set to the correct height, perform ADJ 60.3 IIT Registration, Magnification and Calibration.

ADJ 5.3 SPDH Skew

Parts List on PL 5.10

Purpose

To correct document feed skew induced by the SPDH.

Preparation

Perform the steps that follow:

- 1. Clean the CVT glass. Refer to ADJ 5.4 SPDH Cleaning Procedure.
- 2. Check that the document width guides are adjusted correctly.
- 3. Ensure that the SPDH is set to the correct height. Go to ADJ 5.2 SPDH Height.
- 4. Check the document path for obstructions or foreign objects.
- 5. Perform the Skew Check.

Skew Check

- Print internal test pattern 16 (IQAF TP 16 Large Squares). Ensure the test pattern is completely free of skew.
- 2. Use the SPDH to make 5 side 1 copies of the test pattern, by placing the test pattern face up in the SPDH document tray.
- 3. Use the SPDH to make 5 side 2 copies of the test pattern, by placing the test pattern face down in the SPDH document tray and selecting duplex copies.

NOTE: Skew is always measured on the lead edge, irrespective of paper orientation.

- 4. Check the skew. Refer to IQS 5 Skew.
- 5. If necessary, perform the Side 1 Skew Adjustment and/or the Side 2 Skew Adjustment.

NOTE: If skew requires adjustment on both side 1 and side 2, the side 2 skew must be adjusted first.

Side 2 Skew Adjustment

1. From the rear of the SPDH locate the skew adjusting screw, Figure 1.

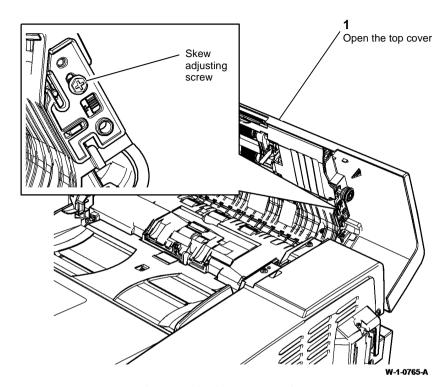


Figure 1 Adjusting screw location

2. If the SPDH did not need adjustment during build, the adjustment screw will be in the fixed location hole. If necessary move the screw to the adjustable slot position, Figure 2.

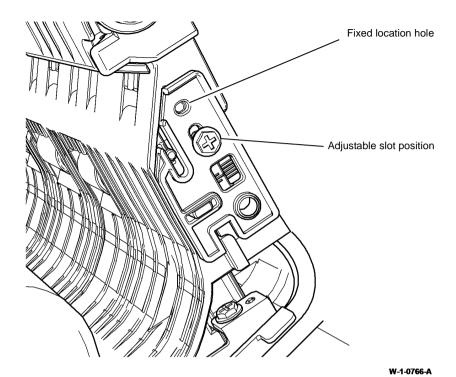


Figure 2 Adjusting screw position

3. Adjust the side 2 skew, Figure 3.

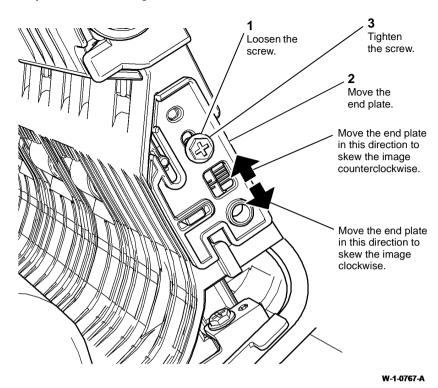
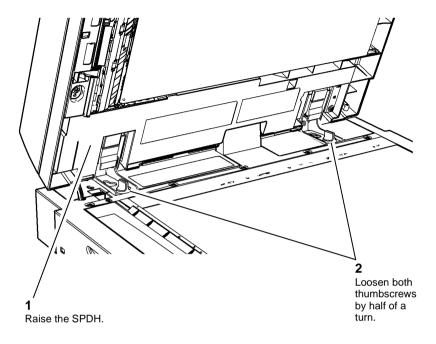


Figure 3 Side 2 skew adjustment

Side 1 Skew Adjustment

1. Prepare to adjust the side 1 skew, Figure 4.



W-1-0768-A

Figure 4 Preparation

2. Adjust the side 1 skew, Figure 5.

NOTE: Approximately 3 turns of the adjustment screw will move the skew by 1mm.

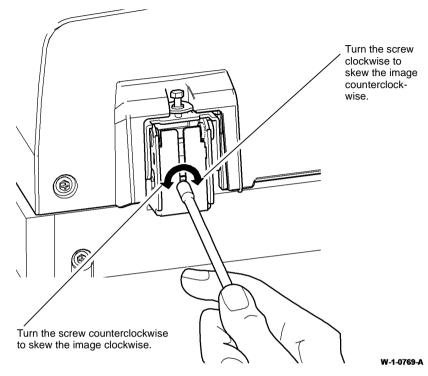


Figure 5 Side 1 skew adjustment

- 3. Tighten the thumbscrews.
- 4. Perform the Skew Check again. If necessary repeat the adjustments.
- When the SPDH skew is within specification, perform ADJ 60.3 IIT Registration, Magnification and Calibration.

ADJ 5.4 SPDH Cleaning Procedure

Parts List on PL 5.10

Purpose

This procedure describes how to clean the SPDH. The wear of the feed rolls, paper dust and dirt in the environment can cause copy quality defects.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Use a brush to clean length sensor 1, PL 5.30 Item 5, and length sensor 2, PL 5.30 Item
- 2. Open the SPDH top cover.
- Use a dry microfiber wiper, PL 26.10 Item 13, or brush to clean the document path area, top and bottom. Remove all loose material.
- Clean the upper document path idlers and takeaway roll assembly PL 5.17 Item 1, with a microfiber wiper, PL 26.10 Item 13, and water.
- 5. Remove the feed, nudger and retard rolls, REP 5.2 and REP 5.3. Clean the 3 rolls and the retard pad, PL 5.30 Item 8, with a microfiber wiper, PL 26.10 Item 13, and water. Use a brush to clean the paper dust from the feed assembly and from the area around the separation assembly. Re-install 3 roll assemblies.
- 6. Leave the top cover open. Raise the SPDH assembly.
- Remove the lower pre scan roller assembly, REP 5.6. Clean the 3 idler rolls with a microfiber wiper, PL 26.10 Item 13, and water.
- Rotate the pre scan jam clearance knob, PL 5.17 Item 11. Clean the pre scan roll assembly, PL 5.17 Item 4, and the lower document path idlers with a microfiber wiper, PL 5.10 Item 13 and water.
- Clean the document pad, PL 5.10 Item 3, with a microfiber wiper, PL 26.10 Item 13, and water.
- 10. Lower the SPDH assembly.



Take care when cleaning the under side of the input tray. Do not damage the re-stack arm, PL

- 11. Clean the input tray and the exit area below the input tray with a microfiber wiper, PL 26.10 Item 13. and antistatic fluid. PL 26.10 Item 19.
- Clean the CVT glass and the document glass. Refer to ADJ 60.1 Scanner Cleaning Procedure.

5.30 Item 7.

ADJ 12.1-110 2K LCSS Bin 1 Level

Parts List on PL 12.10

Purpose

To ensure bin 1 is level, and achieve the best stacking performance.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the rear cover and bin 1 elevator motor. Refer to REP 12.5-110.
- Move bin 1 to the lowest position.
- 3. Remove the rear belt clamp, PL 12.30 Item 2, ensure the bin is fully down on both sides. Install the rear belt clamp.
- 4. Re-install the bin 1 elevator motor. Refer to REP 12.5-110.
- 5. Switch on the machine, GP 14.
- Enter dC330 code 012-242, bin 1 elevator motor cycle. Check that bin 1 cycles without giving any fault indications.

ADJ 12.2-110 Machine to 2K LCSS Alignment

Parts List on PL 12.10

Purpose

To correctly align the 2K LCSS for the reliable transfer of paper from the machine.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Turn the hand wheels above the castors below bin 1 to adjust the alignment:

 Turn both hand wheels in the same direction to adjust the vertical alignment between the 2K LCSS and the machine. The 2K LCSS should be in vertical alignment with the machine, viewed from the front and rear, Figure 1.

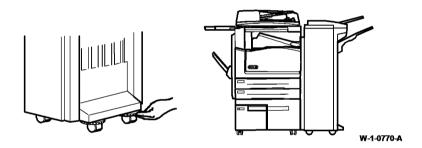


Figure 1 Machine to 2K LCSS alignment

ADJ 12.3-110 Not Used

Purpose

Adjustment 12.3-110 is not applicable to this product.

ADJ 12.4-110 Motor Drive Belt Tensioning

Parts List on PL 12.40

Purpose

To set the tension of directly or indirectly driven belts that are tensioned by a spring attached to the motor.

Check

- 1. The shafts and pulleys are installed and properly located.
- 2. The drive belt is undamaged and correctly routed.
- The adjustable motor or tensioning pulley bracket is positioned with fastening screws not tightened fully.

NOTE: For motors with pivoted brackets, the pivot screw must be fitted and tightened.

4. The tensioning spring is fitted between the bracket and frame locating point.

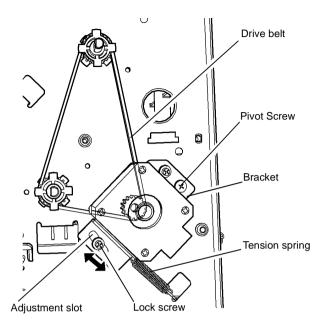
Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Figure 1 shows a typical arrangement. Press the belt midway between pulleys and check
that the bracket moves to stretch the spring. Slacken the bracket screws if necessary.
Allow the spring to pull the bracket and tension the drive belt, then tighten bracket screws.

NOTE: Check the belt condition and routing if the tension spring is not extended, or the locking screw is at the end of the bracket adjustment slot.



Typical spring tensioning arrangement

W-1-0773-A

Figure 1 Drive Belt Tensioning

ADJ 12.1-150 LVF BM Bin 1 Level

Parts List on PL 12.320 and PL 12.340

Purpose

To ensure bin 1 is level, and achieve the best stacking performance.

Check

Move bin 1 to the lowest position by using the dC330 codes that follow:

- 012-059 Elevator Motor Up.
- 012-060 Elevator Motor Down.
- 012-241 Bin 1 Elevator Motor Home.
- 012-242, Bin 1 Elevator Motor Cycle.

Check that the tray is level.

Enter dC330, code 012-242, Bin 1 Elevator Motor Cycle. Check that bin 1 cycles without giving any fault indications. If necessary, perform the adjustment.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the stacker tray drive and motor assembly, refer to REP 12.5-150.
- 2. Move bin 1 to the lowest position.
- 3. Slacken the screw on the rear and front belt clamps, PL 12.340 Item 2 and PL 12.340 Item 8. Adjust the position they sit on the belts to level the tray. Lock the clamps.
- 4. Re-install the stacker tray drive and motor assembly refer to REP 12.5-150.
- 5. Switch on the machine, GP 14.
- Enter dC330 code 012-242, Bin 1 Elevator Motor Cycle. Check that bin 1 cycles without giving any fault indications.

ADJ 12.2-150 Machine to LVF BM Alignment

Parts List on PL 12.320

Purpose

To correctly align the LVF BM to achieve reliable transfer of paper from the machine to the LVF BM.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

 Figure 1, turn both right hand wheels in the same direction to adjust the vertical alignment between the LVF BM and the machine viewed from the front or rear.

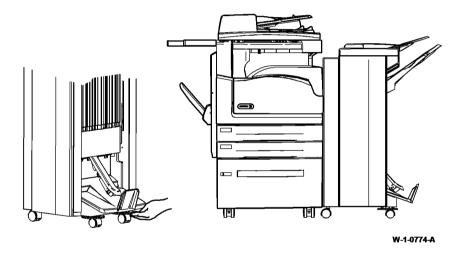


Figure 1 Machine to LVF BM alignment

ADJ 12.3-150 Not Used

Purpose

Adjustment 12.3-150 is not applicable to this product.

ADJ 12.4-150 Motor Drive Belt Tensioning

Purpose

To set the tension of directly or indirectly driven belts that are tensioned by a spring attached to the motor or tensioning pulley.

Check

- 1. The shafts and pulleys are installed and properly located.
- The drive belt is undamaged and correctly routed.
- The adjustable motor or tensioning pulley bracket is positioned with fastening screws tightened fully.

NOTE: For motors with pivoted brackets, the pivot screw must be fitted and tightened.

4. The tensioning spring is fitted between the bracket and frame locating point.

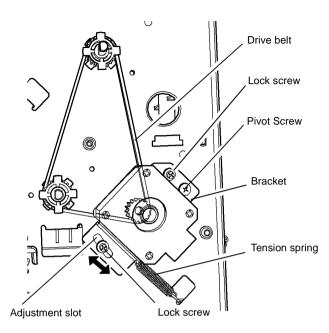
Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Figure 1 shows a typical arrangement. Slacken the bracket lock screws. Press the belt midway between pulleys and check that the bracket moves and returns by the spring pull.
- 2. Release the belt and allow the spring to pull the bracket and tension the drive belt then tighten the lock screws.

NOTE: Check the belt condition and routing if the tension spring is not extended or the locking screw is at the end of the bracket adjustment slot.



Typical spring tensioning arrangement.

W-1-0777-A

Figure 1 Drive belt tensioning

ADJ 12.5-150 Booklet Crease Position

Purpose

To set the crease position of the booklet in relation to the centre of the booklet sheets.

Check

- 1. Run a copy job of 3 stapled 4 sheet booklets.
- Observe the position of the crease in relation to the open end of the booklet. The fold should be central, so that the open ends of the booklet pages are equal from the fold. If necessary perform the adjustment.

Adjustment

- 1. Perform the steps that follow:
 - Enter dC131.
 - Select 712-101.
 - Select Read/Write.
 - d. Enter the new value to correct the error found during the check.

NOTE: Increasing the value increases the width of the top sheet of the booklet (moves the fold away from the left edge). Decreasing the value decreases the width of the top sheet of the booklet (moves the fold towards the left edge). 1 step = 0.1 mm.

- e. Select Save, then OK.
- Select Save, then select OK.
- 3. When the crease position is correct, switch the machine off then on, GP 14.
- 4. Record the new NVM value on the LVF BM NVM label.

ADJ 12.6-150 Booklet Staple Position

Purpose

To set the position of the staples so that they are positioned on the fold of the booklet.

Check

- Run a copy job of 3 stapled 4 sheet booklets.
- Observe the position of the staple in relation to the fold of the booklet. The staple should be positioned in the middle of the fold. If necessary perform the adjustment.

Adjustment

- 1. Perform the steps that follow:
 - a. Enter dC131.
 - b. Select 712-100.
 - Select Read/Write.
 - Enter the new value to correct the error found during the check.

NOTE: Increasing the value moves the staple position toward the left edge of the top sheet. Decreasing the value moves the staple position away from the left edge of the top sheet. 1 step = 0.1mm.

- e. Select Save, then OK.
- Select Save, then select OK.
- Repeat the Check to ensure the staple position is correct.
- 4. When the staple position is correct, switch the machine off then on, GP 14.
- Record the new NVM value on the LVF BM NVM label.
- If the staples are not correctly clinched, perform ADJ 12.7-150 Booklet Stapler Anvil Position Front, or ADJ 12.8-150 Booklet Stapler Anvil Position Rear as necessary.

ADJ 12.7-150 Booklet Stapler Anvil Position - Front

Purpose

To set the position of the BM staple head assembly so that it is correctly aligned with the front BM staple cartridge, to give correctly clinched staples.

Check

- 1. Run a copy job of 3 stapled 4 sheet booklets.
- Observe the condition of the staple legs. Both staple legs should be formed to the same shape and by the same amount.
- . If the staple legs are not correctly clinched, perform the adjustment.

Adjustment



Do not enter NVM values of less than 6 or greater than 14. NVM values outside of these values may cause machine damage.

- 1. Perform the steps that follow:
 - Enter dC131.
 - b. Select 712-102.
 - c. Select Read/Write.
 - Enter the new value to correct the error found during the check.
 - If the lesser formed leg is towards the front, move the BM staple head assembly towards the rear (decrease the NVM value).
 - If the lesser formed leg is towards the rear, move the BM staple head assembly towards the front (increase the NVM value).

NOTE: Increasing the value will move the BM staple head assembly towards the front. Decreasing the value will move the BM staple head towards the rear. 1 step = 0.2666mm.

- e. Select Save, then OK.
- Select Save, then select OK.
- Repeat the Check to ensure the staple clinching is correct.
- 4. When the staple clinching is correct, switch the machine off then on, GP 14.
- 5. Record the new NVM value on the LVF BM NVM label.

ADJ 12.8-150 Booklet Stapler Anvil Position - Rear

Purpose

To set the position of the BM staple head assembly so that it is correctly aligned with the rear BM staple cartridge, to give correctly clinched staples.

Check

- Run a copy job of 3 stapled 4 sheet booklets.
- Observe the condition of the staple legs. Both staple legs should be formed to the same shape and by the same amount.
- 3. If the staple legs are not correctly clinched, perform the adjustment.

Adjustment



Do not enter NVM values of less than 6 or greater than 14. NVM values outside of these values may cause machine damage.

- 1. Perform the steps that follow:
 - a. Enter dC131.
 - b. Select 712-103.
 - c. Select Read/Write.
 - d. Enter the new value to correct the error found during the check.
 - If the lesser formed leg is towards the front, move the BM staple head assembly towards the rear (decrease the NVM value).
 - If the lesser formed leg is towards the rear, move the BM staple head assembly towards the front (increase the NVM value).

NOTE: Increasing the value will move the BM staple head assembly towards the front. Decreasing the value will move the BM staple head towards the rear. 1 step = 0.2666mm.

- e. Select Save, then OK.
- Select Save, then select OK.
- Repeat the Check to ensure the staple clinching is correct.
- When the staple clinching is correct, switch the machine off then on, GP 14.
- 5. Record the new NVM value on the LVF BM NVM label.

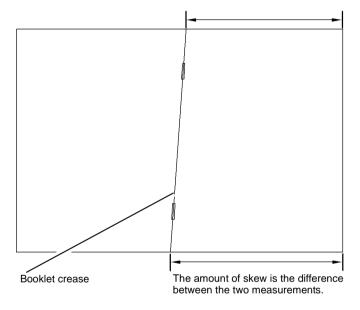
ADJ 12.9-150 Booklet Skew

Purpose

To eliminate skew from the booklet crease by adjusting the position of the back stop assembly.

Check

- 1. Run a copy job of 3 stapled 4 sheet booklets.
- Open out the booklet at the centre page and press it onto a flat surface. Measure the misalignment of the open side edges of the booklet, Figure 1.



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Figure 1 Booklet skew

3. If the booklet has skew greater than given in Table 1, perform the adjustment.

Table 1 Booklet crease skew

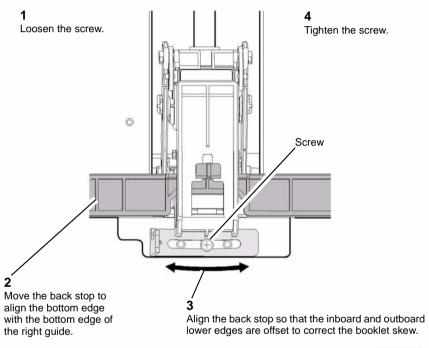
| | Paper size | 4 sheet booklet | 15 sheet booklet |
|-----------------|----------------|-----------------|------------------|
| 95% of booklets | A4/8.5x11 inch | 1.5mm | 2.0mm |
| | 8.5x14 inch | 1.5mm | 2.0mm |
| | A3 | 2.0mm | 2.5mm |
| | 11x17 inch | 1.5mm | 2.0mm |

Table 1 Booklet crease skew

| | Paper size | 4 sheet booklet | 15 sheet booklet |
|-------------------|----------------|-----------------|------------------|
| Worst 5% booklets | A4/8.5x11 inch | 2.0mm | 3.0mm |
| | 8.5x14 inch | 2.0mm | 3.0mm |
| | A3 | 2.5mm | 3.5mm |
| | 11x17 inch | 2.0mm | 3.0mm |

Adjustment

- 1. Perform REP 12.19-150 steps 1 to 7 to uncover the back stop right guide assembly.
- 2. Figure 2, adjust the position of the back stop.



W-1-1413-A

Figure 2 Back stop adjustment

- 3. Re-assemble the removed components, except for the covers.
- 4. Run a copy job of 3 stapled 4 sheet booklets.
- 5. Open out the booklet at the centre page and press it onto a flat surface. Measure the misalignment of the open side edges of the booklet, Figure 1. If the booklet skew is still outside of the tolerance, repeat the adjustment.

ADJ 40.1 Machine Lubrication

Purpose

To correctly lubricate the machine to prevent noise and wear.

Lubrication

Refer to GP 18 Machine Lubrication for general guidance on the use of lubricants.



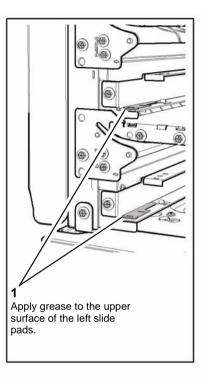
Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

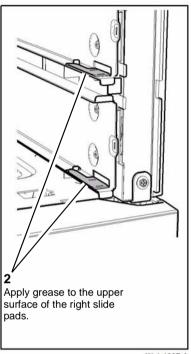
The list that follows identifies the parts of the machine where lubrication is permitted. Go to the relevant procedure:

- Tray 1 and 2 Slide Pads.
- Tray 1 and 2 Stack Height Mechanism Actuator.
- Registration Transport Housing.
- Main Drive Module.
- Exit Drive Gears.
- Left Door Link Assembly.
- Horizontal Transport Assembly.
- 2K LCSS Drive Belt Tensioners.
- 2K LCSS Bin 1 Drive Belt Pulleys and Idlers.
- 2K LCSS Bin 1 Elevator Motor Worm and Gears.
- 2K LCSS and LVF BM Tamper Assembly.
- 2K LCSS and LVF BM Ejector Shafts and Slide Bearings.
- LVF BM Intermediate Paper Drive Belt Tensioner.
- LVF BM Bin 1 Drive Belt Pulleys and Idlers.
- LVF BM Bin 1 Elevator Motor Worm and Gears

Tray 1 and 2 Slide Pads

- 1. Remove tray 1 and 2. REP 70.1.
- 2. If the trays do not slide easily, apply plastislip grease, PL 26.10 Item 8, to lubricate the slide pads, Figure 1.





W-1-1207-A

Figure 1 Tray 1 and 2 slide pads

3. Install tray 1 and 2, REP 70.1.

Tray 1 and 2 Stack Height Mechanism Actuator

- 1. Remove tray 1 and 2, REP 70.1.
- 2. Remove the tray 1 and tray 2 paper feed assemblies, REP 80.1.
- 3. Check that the actuator mechanism operates smoothly, if necessary apply plastislip grease, PL 26.10 Item 8, to lubricate the actuator, Figure 2.

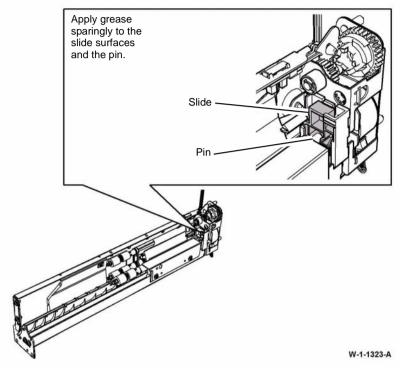


Figure 2 Actuator lubrication

- 4. Install tray 1 and tray 2 paper feed assemblies, REP 80.1.
- 5. Install tray 1 and 2, REP 70.1.

Registration Transport Housing

- 1. Open the left door.
- Lubricate the registration transport location ramps with plastislip grease, PL 26.10 Item 8, Figure 3.

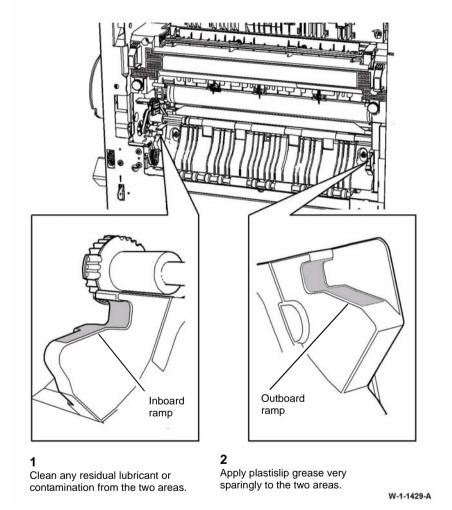


Figure 3 Ramps lubrication

3. Close the left door.

Main Drive Module

- Remove the main drive module. REP 40.1.
- Check that the gears are adequately lubricated, if necessary apply plastislip grease, PL 26.10 Item 8, to lubricate the main drive module, Figure 4.

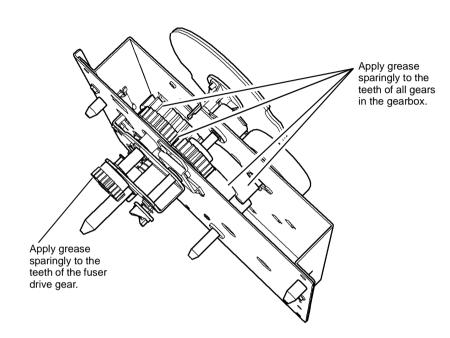
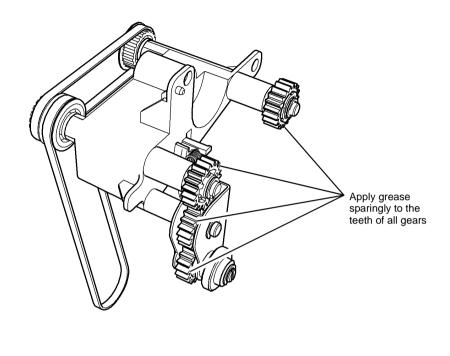


Figure 4 Main drive module

3. Install the main drive module, REP 40.1.

Exit Drive Gears

- 1. Remove the exit drive assembly, REP 10.2.
- Check that the gears are adequately lubricated, if necessary apply plastislip grease, PL 26.10 Item 8, to lubricate the exit drive assembly gears, Figure 5.



W-1-1326-A

Figure 5 Exit drive assembly

3. Install the exit drive assembly, REP 10.2.

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Left Door Link Assembly

- 1. Open the left door.
- Figure 6, check that the link assembly is adequately lubricated, if necessary apply plastislip grease. PL 26.10 Item 8.

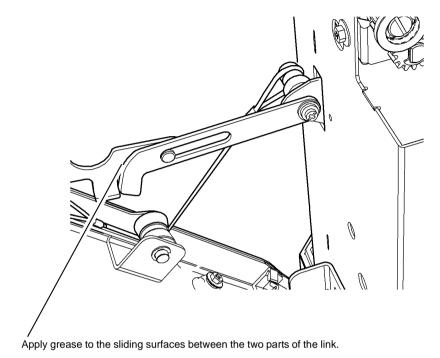


Figure 6 Door link lubrication

Horizontal Transport Assembly

- 1. Remove the horizontal transport, REP 10.6.
- 2. Remove the horizontal transport top cover, PL 10.15 Item 11.
- 3. Remove the four horizontal transport idler rolls, PL 10.15 Item 9.
- 4. Release the snap feature to remove the rolls from the idler roll shafts.
- Apply plastislip grease, PL 26.10 Item 8, sparingly to the ends of the idler roll shafts ensuring the snap features are coated.
- Re-assemble the rolls on the idler roll shafts. Ensure the outside of the rolls are not contaminated with grease.
- 7. Re-assemble the removed components.
- 8. Re-install the horizontal transport assembly in the machine.

2K LCSS Drive Belt Tensioners

- Remove the 2K LCSS top cover, front door cover assembly and rear cover, REP 12.1-110
- Remove and inspect the intermediate paper drive belt tensioner, PL 12.60 Item 17, if tensioner does not pivot freely or the pulley does not revolve freely, perform the steps that follow:
 - a. Remove the E-clip and pulley from the belt tensioner.
 - Apply plastislip grease, PL 26.10 Item 8 to the shaft and pulley bore.
 - c. Re-assemble the pulley and E-clip on the belt tensioner.
 - d. Clean off the old lubricant and any contamination from the belt tensioner and 2K LCSS frame using a microfiber wiper, PL 26.10 Item 13.
 - Apply plastislip grease, PL 26.10 Item 8, to the whole contact face of the belt tensioner.
 - Install the belt tensioner.
- Remove and inspect the Bin 1 drive belt tensioner, PL 12.30 Item 13 (2 places), if the pulley does not revolve freely, perform the steps that follow:
 - a. Remove the E-clip and pulley from the belt tensioner.
 - b. Apply plastislip grease, PL 26.10 Item 8 to the shaft and pulley bore.
 - c. Re-assemble the pulley and E-clip on the belt tensioner.
 - d. Install the belt tensioner.

2K LCSS Bin 1 Drive Belt Pulleys and Idlers

- Remove the 2K LCSS top cover, front door cover assembly and rear cover, REP 12.1-110
- 2. If necessary, remove the LCSS PWB, PL 12.75 Item 1.
- 3. Remove and inspect the relevant pulley or idler assembly:
 - Bin 1 drive belt idler, PL 12.30 Item 15 (2 places).
 - Bin 1 drive belt pulley, PL 12.30 Item 6 (4 places).

If any pulley or idler does not turn freely, perform the steps that follow:

- Remove the E-clip and pulley or idler from the bracket.
- b. Apply plastislip grease, PL 26.10 Item 8 to the shaft and pulley or idler bore.
- c. Re-assemble the pulley or idler and E-clip on the bracket.
- d. Install the pulley or idler assembly.

W-1-1411-A

2K LCSS Bin 1 Elevator Motor Worm and Gears

- Remove the 2K LCSS top cover and rear cover. REP 12.1-110.
- Check that the worm, worm wheel and reduction gears are adequately lubricated, if necessary use plastislip grease, PL 26.10 Item 8, to lubricate the components, Figure 7.

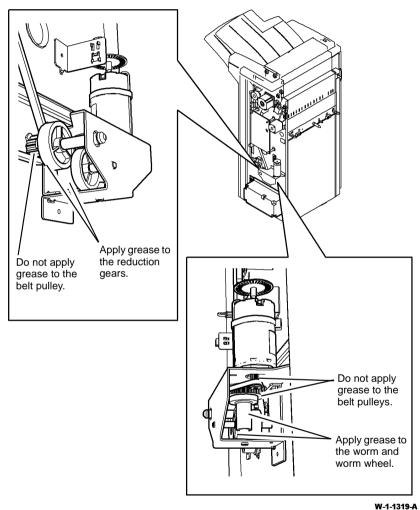


Figure 7 Worm and gears

2K LCSS and LVF BM Ejector Shafts and Slide Bearings

- 1. Remove the 2K LCSS ejector assembly, REP 12.10-110, or LVF BM ejector assembly REP 12.10-150.
- Check the ejector shafts are adequately lubricated and the slide bearings move freely along the ejector shafts:
 - 2K LCSS PL 12.50 Item 10, PL 12.50 Item 11 and PL 12.50 Item 12.
 - LVF BM PL 12.360 Item 11, PL 12.360 Item 12, PL 12.360 Item 13.
- 3. If the slide bearings are worn replace the ejector assembly:
 - 2K LCSS PL 12.50 Item 1.
 - LVF BM PL 12.360 Item 1.



Do not mix the residual lubrication with new lubricant on the ejector shafts and slide bearings. Contamination of the manufactures's lubricant with another will decrease durability and high temperature resistance.

- 4. If the assembly requires lubrication, perform the steps that follow:
 - Refer to GP 18 Machine Lubrication.
 - Clean both ejector shafts and the 4 slide bearings with film remover, PL 26.10 Item 4, so that they are completely free of existing residual lubricant and contamination.
 - Apply Hi-Lube grease, PL 26.11 Item 6 sparingly to the ejector shafts, then manually move the ejector base along the ejector shafts to distribute the lubricant fully along the shafts and inside the slide bearings.
- 5. Re-install the ejector assembly in the machine.

2K LCSS and LVF BM Tamper Assembly

- Remove the 2K LCSS top cover, REP 12.1-110 or LVF BM top cover, REP 12.1-150.
- 2. Check that the two tamper shafts are adequately lubricated, if necessary use plastislip grease, PL 26.10 Item 8, to lubricate the tamper assembly, Figure 8.

NOTE: The lubrication procedure is the same for the 2K LCSS and LVF BM.

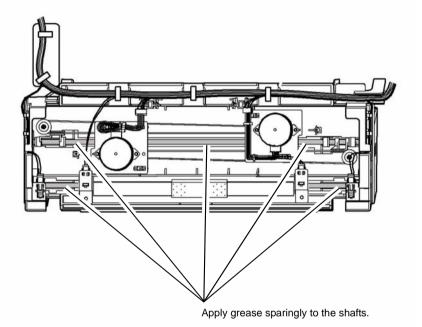


Figure 8 Lower vertical slides

LVF BM Intermediate Paper Drive Belt Tensioner

- 1. Remove the LVF BM top cover and rear cover. REP 12.1-150.
- Remove and inspect the intermediate paper drive belt tensioner, PL 12.370 Item 17, if the tensioner does not pivot freely or the pulley does not revolve freely, perform the steps that follow:
 - a. Remove the E-clip and pulley from the belt tensioner.
 - b. Apply plastislip grease, PL 26.10 Item 8 to the shaft and pulley bore.
 - c. Re-assemble the pulley and E-clip on the belt tensioner.
 - d. Clean off the old lubricant and any contamination from the belt tensioner and LVF BM frame using a microfiber wiper, PL 26.10 Item 13.
 - e. Apply plastislip grease, PL 26.10 Item 8, to the whole contact face of the belt tensioner.
 - f. Install the belt tensioner.

LVF BM Bin 1 Drive Belt Pullevs and Idlers

- 1. Remove the LVF BM top cover, front door cover assembly and rear cover, REP 12.1-150.
- 2. If necessary, remove the LVF BM PWB, REP 12.36-150.
- 3. Remove and inspect the relevant pulley or idler:
 - Bin 1 drive belt idler, PL 12.340, (4 places).
 - Bin 1 drive belt pulley, PL 12.340 Item 6, (4 places).

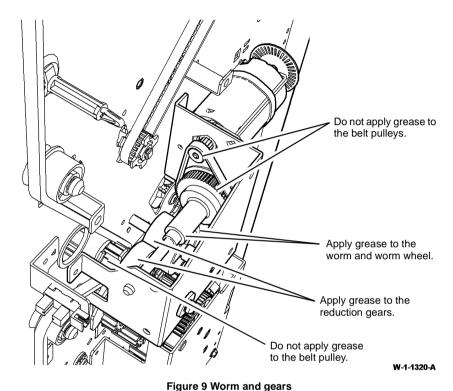
If any pulley or idler does not turn freely, perform the steps that follow:

- a. Remove the E-clip and pulley or idler from the bracket
- b. Apply plastislip grease, PL 26.10 Item 8 to the shaft and pulley or idler bore.
- c. Re-assemble the pulley or idler and E-clip on the bracket.
- d. Install the pulley or idler assembly.

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LVF BM Bin 1 Elevator Motor Worm and Gears

- Remove the LVF BM top cover and rear cover, REP 12.1-150.
- Check that the worm, worm wheel and reduction gears are adequately lubricated, if necessary use plastislip grease, PL 26.10 Item 8, to lubricate the components, Figure 9.



ADJ 60.1 Scanner Cleaning Procedure

Parts List on PL 60.15

Purpose

To clean the optical components of the scanner ensuring optimum image quality.

NOTE: This adjustment must only be performed if directed to it from dC945, an Image Quality RAP or if the optics cavity was opened to install a new component, and contamination can be seen.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Observe ESD precautions during this procedure.

- Remove the top cover assembly, REP 60.3.
- 2. Inspect the cleanliness of the scanner interior. If necessary, clean as follows:
 - a. Vacuum clean the area as necessary to remove all visible contamination. It may be necessary to move the carriage gently to the right. It is advisable to leave it in this position, but it can be returned to the home position. **Do not** vacuum clean the scan carriage.
 - b. Wash your hands.
 - c. Use an air duster, PL 26.11 Item 1 to carefully clean any contamination from the scan carriage.
- 3. Examine the lenses of the document size sensors, PL 60.20 Item 3. Clean if necessary with a microfiber wiper, PL 26.10 Item 13.
- 4. Inspect the document glass and CVT glass. If necessary, clean them as follows:
 - Clean the under side of document glass and CVT glass using a microfiber wiper, PL 26.10 Item 13, dampened with antistatic fluid, PL 26.10 Item 19.
 - Polish the under side of document glass and CVT glass using a dry microfiber wiper, PL 26.10 Item 13.
 - c. Install the top cover, taking care not to smear the cleaned underside, REP 60.3.
 - d. Clean the upper side of document glass and CVT glass using a microfiber wiper, dampened with film remover, PL 26.10 Item 4.
 - Polish the upper side of document glass and CVT glass using a dry, microfiber wiper.
- Re-install the remainder of the removed components.

ADJ 60.2 Side 2 Scan Assembly Cleaning Procedure

Parts List on PL 60.30

Purpose

To clean the side 2 scanner ensuring optimum image quality.

NOTE: This adjustment must only be performed if directed to it from dC945, an Image Quality RAP or if the side 2 scanner or SPDH have been removed.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Go to the appropriate procedure:

- External Surface Cleaning.
- Internal Surface Cleaning.

NOTE: Only clean the internal surface of the side 2 scan assembly glass if cleaning the external surface failed to resolve the defect.

External Surface Cleaning

1. Raise the SPDH.

2. Lower the jam clearance baffle assembly, Figure 1.

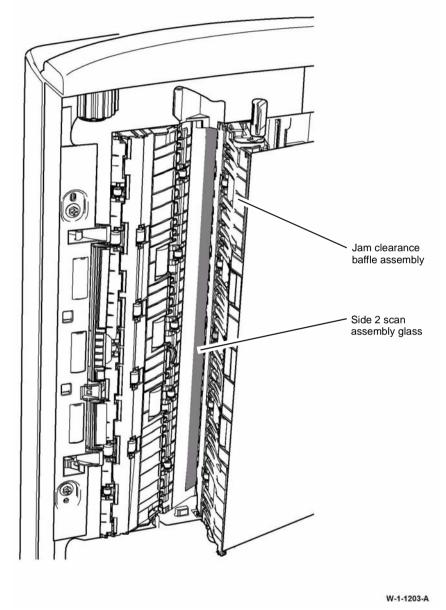


Figure 1 Component location

- 3. Clean the side 2 scan assembly glass, Figure 1. Perform the steps that follow:
 - a. Use a microfiber wiper, PL 26.10 Item 13, dampened with antistatic fluid, PL 26.10 Item 19 to clean the side 2 scan assembly glass.
 - b. Use a dry microfiber wiper, PL 26.10 Item 13 to polish the side 2 scan assembly glass.

Internal Surface Cleaning

- 1. Remove the side 2 scan assembly, REP 60.6.
- 2. Remove the side 2 scan assembly glass, Figure 2.

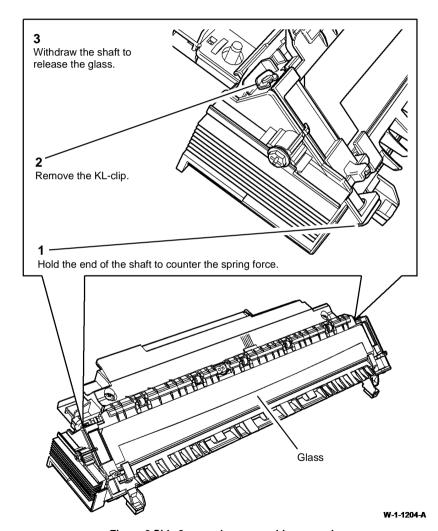


Figure 2 Side 2 scan glass assembly removal

- 3. Use a microfiber wiper, PL 26.10 Item 13, dampened with antistatic fluid, PL 26.10 Item 19 to clean the inside surface of the side 2 scan assembly glass.
- 4. Use a microfiber wiper, PL 26.10 Item 13, to polish the inside surface of the side 2 scan assembly glass.
- 5. Reverse the removal process in Figure 2 to replace the side 2 scan assembly glass.
- 6. Ensure that the retaining plate on the end of each shaft is positioned correctly relative to the locating pips on the side 2 scan assembly, Figure 3.

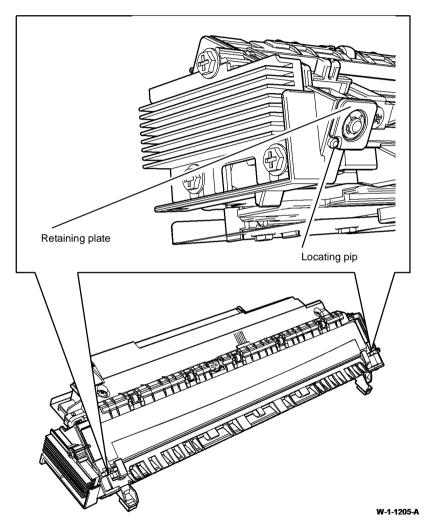


Figure 3 Replacement of the side 2 scan assembly glass

7. Replace the side 2 scan assembly. Refer to REP 60.6.

ADJ 60.3 IIT Registration, Magnification and Calibration Purpose

To correctly set all parameters associated with IIT registration, magnification and calibration.

Procedure

Perform the procedures that follow:

- 1. dC609 Document Glass Registration.
- 2. dC610 CCD Lamp Profile Adjustment.
- 3. dC608 Document Registration Procedure.
- 4. dC945 IIT Calibration.

ADJ 60.4 LED Print Head Cleaning Procedure

Parts List on PL 60.35

Purpose

To clean the LED print head ensuring optimum image quality.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Observe ESD precautions during this procedure.

- 1. Open the front door assembly, PL 28.10 Item 5.
- 2. Cam the LED print head away from the print cartridge.
- 3. Manually move the LED print head cleaner fully out, then in 3 times, Figure 1.

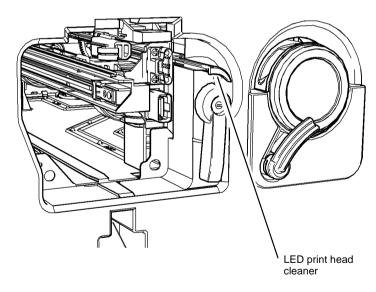


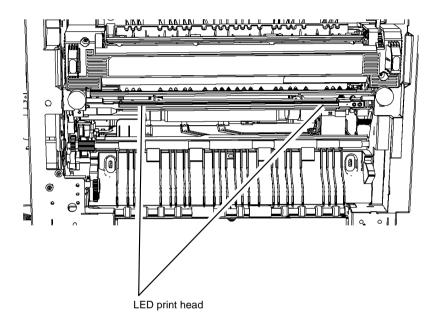
Figure 1 Component location

- 4. If contamination remains, perform the steps that follow:
 - a. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
 - b. Open the left door.



Use very light pressure when cleaning the LED print head.

c. Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to clean the LED print head, Figure 2.



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Figure 2 Component location

ADJ 70.1 Tray 3 and Tray 4 Paper Tray Guide Setting

Parts List on PL 70.18, PL 70.19

Purpose

To adjust the paper tray guides in tray 3 and tray 4 for A4 or 8.5 x 11 inch paper.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Pull out the tray to be adjusted. Remove the paper from the tray.
- 2. To reset the paper tray guides:
 - Refer to Figure 1 and Figure 2 to change the paper tray guides from A4 paper size to 8.5x11 inch paper size.
 - Refer to Figure 3 to change the paper guides from A4 paper size to 8.5x11 inch paper size.
 - Refer to Figure 4 and Figure 5 to change the paper tray guides and paper guides from 8.5x11 inch paper size to A4 paper size.
 - Refer to Figure 6 to change the paper guides from 8.5x11 inch paper size to A4 paper size.

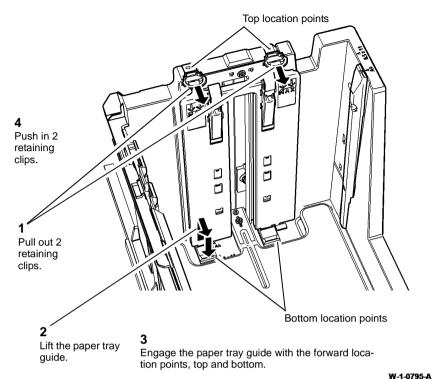


Figure 1 Rear paper tray guide re-position

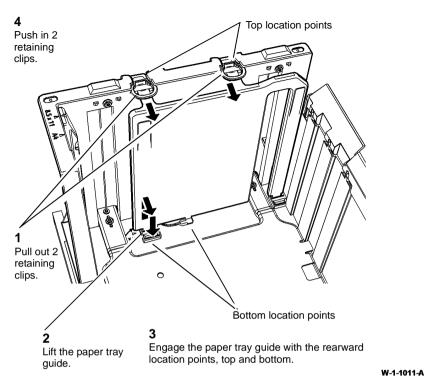


Figure 2 Front paper tray guide re-position

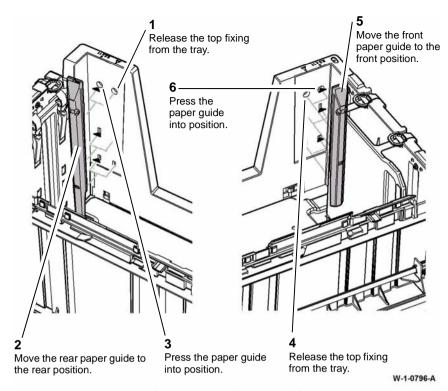


Figure 3 Paper guides re-position

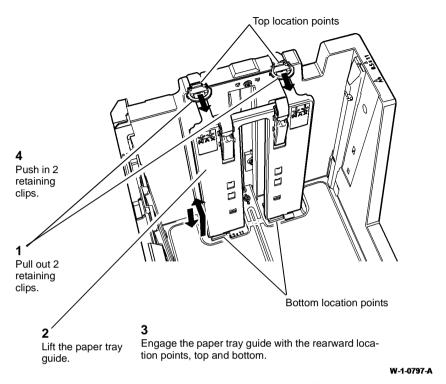


Figure 4 Rear paper tray guide re-position

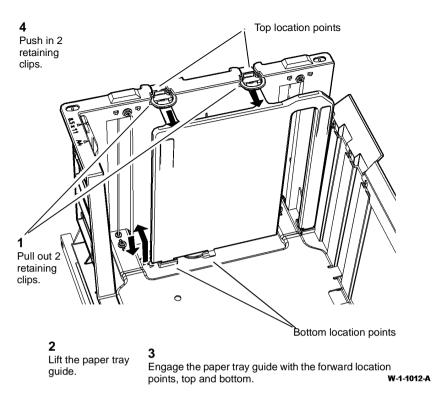


Figure 5 Front paper tray guide re-position

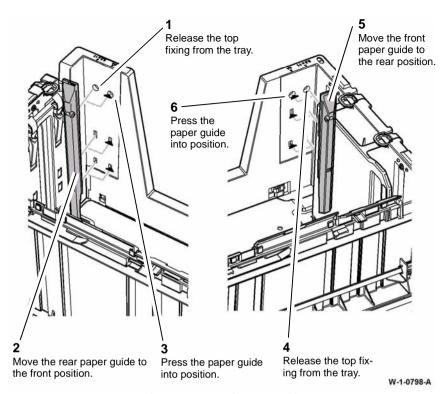


Figure 6 Paper guides re-position

ADJ 80.1 Tray 3 and Tray 4 Nudger Roll Pressure

Parts List on PL 80.32 and PL 80.33

Purpose

To adjust the downward pressure of the nudger roll.

Reducing the downward pressure will make the nudging action less aggressive and may reduce the tendency of some papers from feeding more than 1 sheet from the top of the stack.

Increasing the downward pressure will make the nudging action more aggressive and may improve the feeding of glossy paper and thin paper.

Check

- 1. Remove the relevant paper feed assembly:
 - Tray 3, REP 80.20.
 - Tray 4, REP 80.21.
- 2. Check the number of nudger roll weights. Refer to Figure 1.

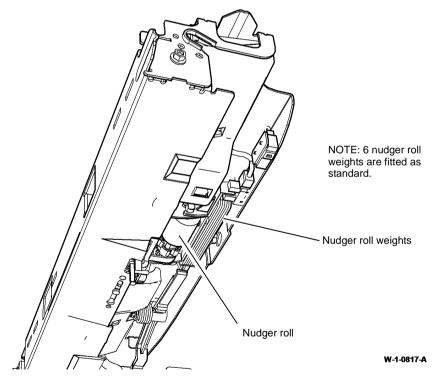


Figure 1 Weights position

Adjustment

 Change the number of nudger roll weights to adjust the downward pressure of the nudger roll. Figure 2.

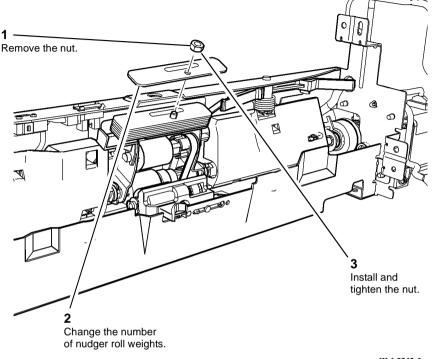


Figure 2 Spring seat adjustment

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- 2. Install the LVPS module, REP 1.1.
- 3. Install the feed assembly then check the paper feeding performance.

ADJ 80.2 Simplex and Duplex Buckle Timing

Purpose

To check and adjust the buckle timing on the simplex and duplex transport assemblies.

Simplex Buckle Timing

Check

Check the simplex skew measurement, IQS 5.

Table 1 Simplex

| Sheet Size | NVM Code | MVM Name | Default Value | Adjustment Range |
|------------------|----------|----------------------|---------------|---------------------|
| =<216mm | 500-020 | SimplexBuckleStepsS1 | 90 | 0 to 500 |
| >216mm & =<365mm | 500-021 | SimplexBuckleStepsS2 | 90 | 0 to 500 |
| >365mm | 500-022 | SimplexBuckleStepsS3 | 90 | 0 to 500 |

Adjustment

- Adjust the 3 simplex buckle timing NVM values in increments of 10 in accordance with Table 1.
- 2. Run 20 copies of test pattern number 11 (8.5x11 inch), 12 (A4), 13 (A3) or 14 (11x17 inch) in simplex mode. Check the copies for skew.
- 3. If necessary, repeat steps 1 and 2.
- 4. Record the new values in the machine log book.
- 5. Check the duplex buckle timing.

Duplex Buckle Timing

Check

Check the duplex skew measurement, IQS 5.

Table 2 Duplex

| Sheet Size | NVM Code | MVM Name | Default Value | Adjustment Range |
|------------------|----------|---------------------|---------------|---------------------|
| =<216mm | 500-024 | DuplexBuckleStepsD1 | 115 | 0 to 1000 |
| >216mm & =<365mm | 500-025 | DuplexBuckleStepsD2 | 115 | 0 to 1000 |
| >365mm | 500-026 | DuplexBuckleStepsD3 | 115 | 0 to 1000 |

Adjustment

- Adjust the 3 duplex buckle timing NVM value in increments of 10 in accordance with Table
 2.
- Run 20 copies of test pattern 11 (8.5x11 inch), 12 (A4), 13 (A3) or 14 (11x17 inch) in duplex mode. Check the copies for skew.
- 3. If necessary, repeat steps 1 and 2.
- 4. Record the new values in the machine log book.
- 5. Perform an NVM Save and Restore, GP 5.

ADJ 80.3 Tray 3 and Tray 4 Retard Roll Pressure

Parts List on PL 80.32 and PL 80.33

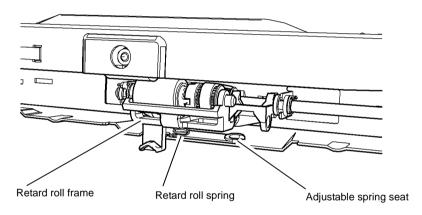
Purpose

To adjust the nip pressure of the retard roll.

NOTE: Reducing the nip pressure will make the retard action less aggressive and may lessen the occurrence of misfeeds. Increasing the nip pressure will make the retard action more aggressive and may lessen the occurrence of multi-feeds.

Check

- 1. Remove the relevant paper feed assembly:
 - Tray 3, REP 80.20.
 - Tray 4, REP 80.21.
- 2. Check the position of the spring seat. Refer to Figure 1.



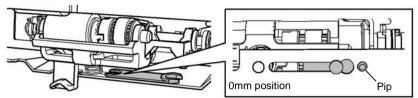
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Figure 1 Spring seat position

Adjustment

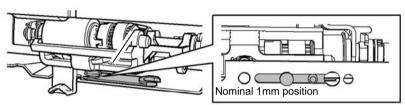
NOTE: The feeders have the spring seat set in the nominal (1mm) position during manufacture, Figure 2.

- 1. Change the position of the spring seat to adjust the nip pressure of the retard roll, Figure $^{2}\cdot$
 - Change the spring seat to the 2mm position to increase the retard roll pressure.
 - Change the spring seat to the 0mm position to decrease the retard roll pressure.



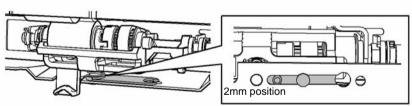
To release the spring seat from this position, press down the pip then slide the spring seat away from the frame hole.

To locate the spring seat in this position, slide the spring seat along the slot until the pip drops into the frame hole.



To release the spring seat from this position, lift up the base of the spring then slide the spring seat away from the spring position.

To locate the spring seat in this position, lift the base of the spring then slide the spring seat along the slot until the thin end is located under the spring.



To release the spring seat from this position, lift up the base of the spring then slide the spring seat away from the spring position.

To locate the spring seat in this position, lift the base of the spring then slide the spring seat along the slot until the thick end is located under the spring.

Figure 2 Spring seat adjustment

2. Install the paper feed assembly. Check the paper feeding performance.

ADJ 80.4 Bypass Tray Nip Pressure

Parts List on PL 70.35

Purpose

To adjust the nip pressure between the mylar retard shield and the feed roll.

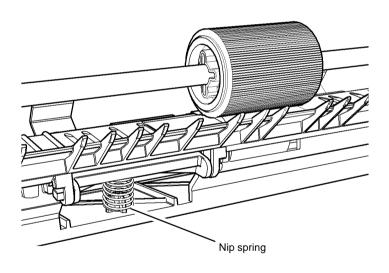
Check

- . Remove the bypass tray assembly, REP 70.2.
- Ensure the mylar retard shield is in good condition and installed correctly, refer to REP 80.34.

Adjustment

NOTE: The XE operational group must only use a RoHS compliant M10 washer during this procedure, part number 651W10855.

 Insert a M10 washer, thickness 1.8mm, outside diameter 19.0mm (part number 251W10855 or 651W10855 - See Note) underneath the retard force nip spring, refer to PL 70.35 Item 18 and Figure 1 and Figure 2.



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Figure 1 Retard force nip spring

W-1-0816-A

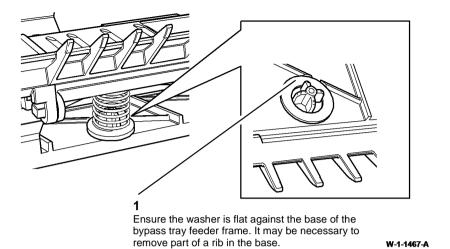


Figure 2 M10 washer in position

- 2. Replace the bypass tray assembly, REP 70.2.
- 3. Enter dC131 then change the NVM values as listed, Table 1.

Table 1 NVM Values

| dC 131 Location | New value | |
|------------------------------------|-----------|--|
| 500-123 MSISimplexBuckleStepsS1 | 250 | |
| 500-124 MSISimplexBuckleStepsS2 | 250 | |
| 500-125 MSISimplexBuckleStepsS3 | 250 | |
| 500-262 MSISimplexBuckleStepsS4 | 250 | |
| 500-433 MSISimplexBuckleStepsS6 | 300 | |

4. Check the paper feeding performance.

ADJ 80.5 Tray 4 Closing Alignment

Parts List on PL 70.18, PL 70.26 and PL 80.36

Purpose

To adjust components of the tray 4 assembly so that it closes correctly to reduce occurrence of intermittent paper jams, mis-feeds and skew.

Check

Open and close tray 4 several times to check that the tray closes easily and fully. Figure 1, shows a tray 4 that is not fully closed at the left side, the tray is closed enough to actuate the tray home sensor, but paper jams, mis-feeds and skew can occur. If tray 4 does not close easily and/or fully, perform the adjustment.

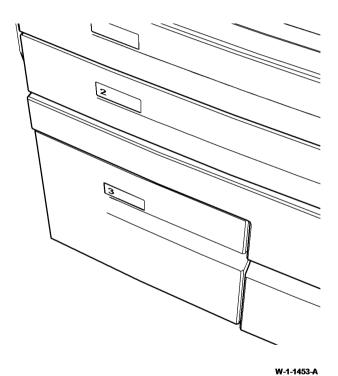


Figure 1 Tray 4 not fully closed

Adjustment

- Remove tray 1 and tray 2, REP 70.1.
- 2. Remove tray 4, REP 70.14.
- B. Remove the tray 4 transport assembly, REP 80.24.

4. Remove the rear cover, REP 28.2.

NOTE: Removal of the rear cover and the tray 2 left guide is optional, but their removal makes the removal and re-installation of the front clip easier.

5. Figure 2, remove the tray 2 left guide.

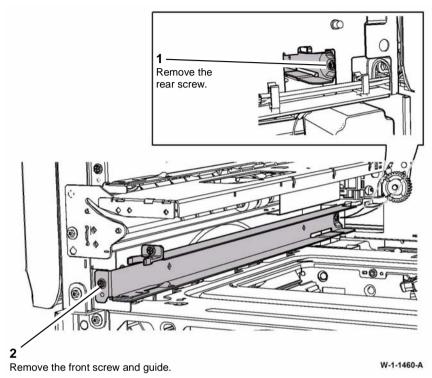


Figure 2 Left guide removal

6. Figure 3, remove the front clip.

NOTE: For clarity, tray 3 is not shown in Figure 3.

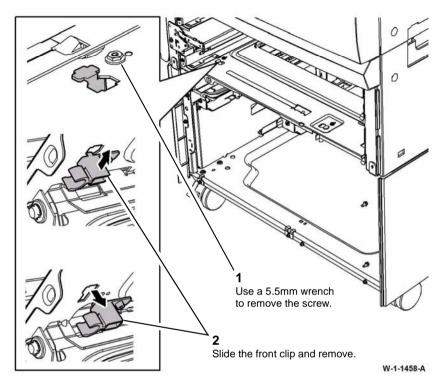


Figure 3 Front clip removal

7. Figure 4, Adjust the opening of the front clip.

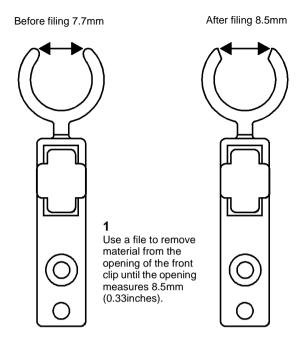


Figure 4 Front clip adjustment

- 8. Re-install the front clip,
- 9. If removed, re-install the tray 2 left guide and the rear cover.
- 10. Re-install tray 1 and tray 2.

11. Figure 5, apply a thin coating of plastislip grease, PL 26.10 Item 8 to the tray 4 assembly rear peg.

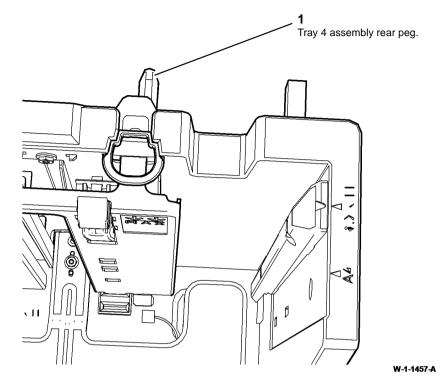
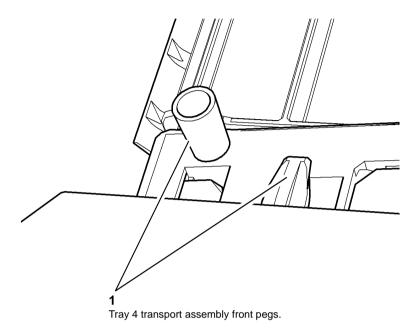


Figure 5 Tray 4 rear peg lubrication

12. Re-install tray 4, without the front cover.

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- 13. Figure 6, apply a thin coating of plastislip grease, PL 26.10 Item 8 to the tray 4 transport assembly front pegs.
- 14. Figure 7, apply a thin coating of plastislip grease, PL 26.10 Item 8 to the tray 4 transport assembly rear pegs.



1
Tray 4 transport assembly rear pegs.

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Figure 6 Front pegs lubrication

Figure 7 Rear pegs lubrication

- 15. Apply a thin coating of plastislip grease, PL 26.10 Item 8 at the 2 fixing screw boss areas on the inside of the front cover and around the screw boss areas on the top of the tray 4 assembly, refer to Figure 8.
- Re-install the tray 4 front cover, but do not overtighten the screws, refer to GP 6 Screw Usage.

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17. Figure 8, check that the tray 4 front cover will move to the left and right to allow the tray 4 transport assembly location pegs to align with the frame holes when the tray is closed. If necessary slightly loosen the two screws securing the tray 4 front cover to the tray 4 assembly until the front cover is free to move.

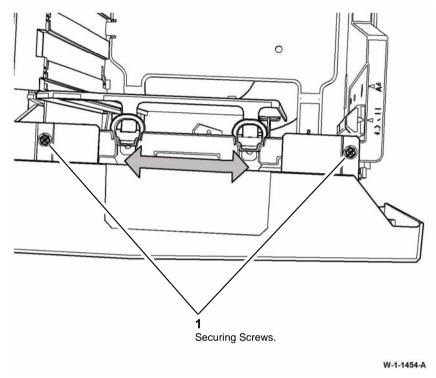


Figure 8 Cover left/right movement

ADJ 90.1 Xerographics Cleaning

Parts List on PL 90.17

Purpose

To clean the xerographics area.

Adjustment



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Remove the print cartridge, PL 90.17 Item 9, then place in a black bag.
- 2. Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to clean the DEV and BCR contacts on the print cartridge, Figure 1.

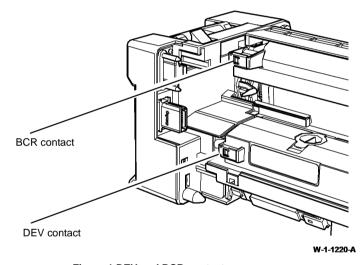
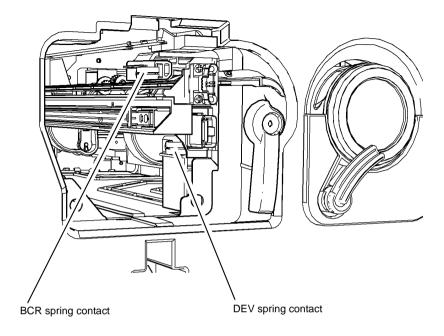


Figure 1 DEV and BCR contacts

 Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to clean the DEV and BCR spring contacts, Figure 2.

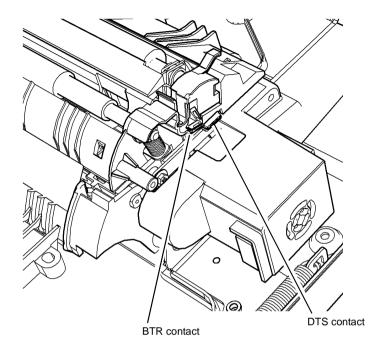


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Figure 2 DEV and BCR spring contacts

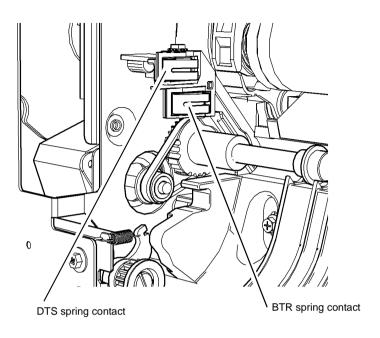
- 4. Clean the LED print head, ADJ 60.4.
- 5. Remove the toner cartridge, PL 90.17 Item 2.
- 6. Remove the relevant component:
 - Centre output tray, REP 28.1.
 - Horizontal transport, REP 10.6.
- 7. Open the left door.
- 8. Use a toner vacuum cleaner to carefully clean the:
 - a. HVPS tracks and the HVPS tray assembly, PL 90.10.
 - b. Toner dispense module, PL 90.17 Item 1.
 - c. Toner cartridge housing, PL 90.17 Item 3.

- 9. Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to clean the DTS and BTR contacts on the registration transfer assembly, Figure 3.
- Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to clean the DTS and BTR spring contacts, Figure 4.



W-1-1222-A

Figure 3 DTS and BTR contacts



W-1-1223-A

Figure 4 DTS and BTR spring contacts

- 11. Remove the HVPS, REP 1.10.
- 12. Use a toner vacuum cleaner to carefully clean the inside of the HVPS cover.
- 13. Use a lint free wiper, PL 26.10 Item 13 dampened with cleaning fluid, PL 26.10 Item 22 to carefully clean the HVPS spring contacts.

NOTE: To gain access to the HVPS contacts, it may be necessary to remove the toner cartridge housing. Refer to REP 90.3 HVPS Tray Assembly.

- 14. To clean the bias transfer roll, PL 80.15 Item 3, perform the steps that follow:
 - a. Switch on the machine, GP 14. Make 20 blank copies.
 - If contamination persists, use a toner vacuum cleaner to very carefully clean the bias transfer roll.

5 Parts Lists

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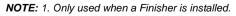
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|---|---|
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Pl 40 - Main Drive Assembly

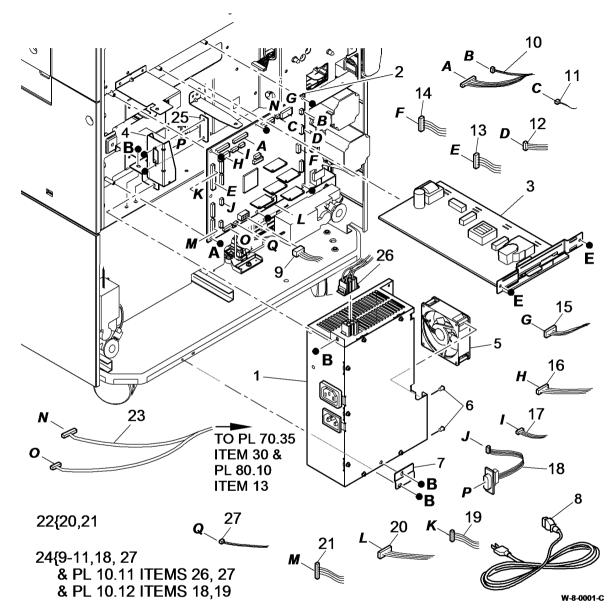
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Pl 1.10 Power and Control Assembly

| PL 1.1 | o Power | and Control Assembly |
|-------------|---------------------|---|
| Item | Part | Description |
| 1 | 105K37664 | LVPS module (W/O TAG 008) (REP 1.1) |
| _ | 607K10800 | LVPS module (W/TAG 008) (REP 1.1) |
| 2 | 960K90572 | IOT PWB (W/O TAG 007, TAG 009) (REP 3.1) |
| - | 607K10790 | OT PWB (W/TAG 007, TAG 009) (REP 3.1) |
| 3 4 5 | 105K37656 - - | HVPS (REP 1.10) Top securing bracket (Not Spared) LVPS cooling fan (P/O PL 1.10 Item 1) |
| 6 | _ | Plastic rivet (P/O PL 1.10 Item 1) |
| 7 8 | _ | Securing plate (P/O PL 1.10 Item 1) Main power cord (REF: PL 1.15 |
| 9 | _ | Item 1) IOT PWB to LVPS module harness |
| 10 | _ | (P/O PL 1.10 Item 24) IOT PWB to HVPS harness (P/O |
| 11 | _ | PL 1.10 Item 24) IOT PWB to Toner cartridge motor |
| 12 | _ | harness (P/O PL 1.10 Item 24) IOT PWB to Horizontal transport / |
| 13 | _ | offset motor harness (Not Spared) IOT PWB to tray 1 & 2 feed |
| 14 | _ | assembly harness (Not Spared) IOT PWB to TAR/bypass tray motor |
| 15 | _ | harness (Not Spared) IOT PWB to Reg motor harness |
| 16 | _ | (Not Spared) IOT PWB to fuser power harness |
| 17 | _ | (Not Spared) IOT PWB to Print cartridge harness |
| 18 | _ | (Not Spared) IOT PWB to Finisher comms connector harness (Finisher only) |
| | | (P/O PL 1.10 Item 24) (See NOTE 1) |
| 19 | - | IOT PWB to Horizontal transport harness (Not Spared) |
| 20 | - | IOT PWB to Tray 4 PWB harness (P/O PL 1.10 Item 22) |
| 21 | - | IOT PWB to HCF sensor harness (P/O PL 1.10 Item 22) |
| 22 23 | 952K37771 - | HCF harness set IOT PWB to Left door harness (P/O PL 80.10 Item 14) (REP 80.33) |
| 24 | 952K37767 | IOT integration harness set (W/O TAG 015) |
| - | 952K57570 | IOT integration harness set (W/ TAG 015) |
| 25 | - | Blanking plate (Not Spared) (See NOTE 2) |
| 26 | _ | LVPS to Fuser module AC power |
| 27 | - | harness (Not Spared) IOT PWB to print cartridge fan harness (P/O PL 1.10 Item 24) |
| NOTE: 4 | 0-4 | han a Finialanda industrillad |

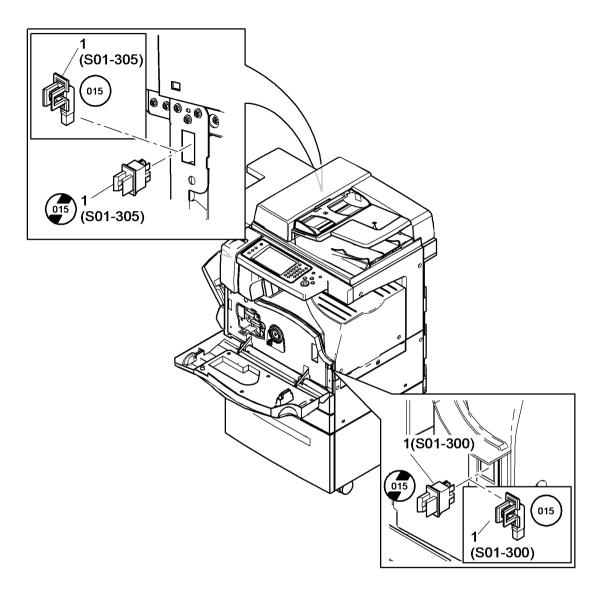


NOTE: 2. Only used when a Centre tray is installed.



PL 1.12 Interlock Switches

| Item | Part | Description |
|------|-----------|---|
| 1 | 110E21780 | Front door interlock switch (S01-300) (REP 1.8)/ Left door interlock switch (S01-305) (REP 1.9) (W/O TAG 015) |
| = | 110K21900 | Front door interlock switch (S01-300) (REP 1.12)/ Left door interlock switch (S01-305) (REP 1.13) (W/TAG 015) |



W-8-0014-B

PL 1.15 Main Power Cables

| Item | Part | Description |
|------|-----------|--|
| 1 | - | Main power cord (see below for variants) |
| - | 152S06414 | United Kingdom (45-55 ppm) |
| - | _ | USSG/XCL (P/O PL 31.14 Item 9) |
| _ | 152S06413 | XE |
| _ | 152S06415 | Denmark (45-55 ppm) |
| _ | _ | South Africa (Not Spared) |
| _ | 152S06416 | Switzerland (45-55 ppm) |
| _ | 152S06402 | Argentina (45-55 ppm) |

NO EXPLODED VIEW PROVIDED

W-8-0002-A

PL 2.10 User Interface

| Item | Part | Description | | 20 |
|----------|------------------------|---|--|---------------------------------------|
| 1 | _ | UI assembly (USSG/XCL) (REP | | X 0 0 0 |
| | | 2.1) | | 19 |
| - | _ | UI assembly (XE) (REP 2.1) | | |
| 2 | _ | UI screen clamp (P/O PL 2.10 Item | | 18 |
| | | 1) | 1{2, 4-10 | |
| 3 | _ | SBC PWB to UI Control PWB | | |
| | | power/comms harness (Not | 21{18-20 | |
| | | Spared) | • | 12 |
| 4 | 123K08651 | UI touch screen (REP 2.2) | | |
| 5 | 848K94781 | UI housing (USSG/XCL) | | 12 |
| _ | 848K94771 | UI housing (XE) | 13 🙇 | 12 5 |
| 6 | 960K79683 | UI Control PWB (REP 2.3) | 17 R | |
| 7 | 960K92940 | UI Status PWB | \ \ \ \ \ \ \ | 4 |
| 8 | 952K26981 | Control to status PWB ribbon cable | | 4 |
| 9 10 | 960K79691 952K26990 | UI Keyboard PWB | | |
| 10 | 952K26990 | Control to keyboard PWB ribbon cable | <u> </u> | 10 |
| 11 | 822E21181 | USB socket cover | 23 | |
| 12 | - | Left frame cover (REF: PL 28.10 | | x5 9 |
| | | Item 6) | 15 (/ |) X3V V 9 |
| 13 | _ | SBC PWB to UI USB port harness | | 6 |
| | | (Not Spared) | 24 | |
| 14 | _ | SBC PWB to UI Control PWB data | C• T | • • • • • • • • • • • • • • • • • • • |
| | | cable (Not Spared) | <u> </u> | 7. |
| 15 | _ | Clamp (Not Spared) | A | 16 |
| 16 | _ | UI support (Not Spared) | | |
| 17 | _ | Lower cover (Not Spared) | | 14 17 17 |
| 18 | - | Left overlay label (P/O PL 2.10 Item | | |
| | | 21) | M. 0 | 3 |
| 19 | _ | Middle overlay label (P/O PL 2.10 | , p. 6 | |
| | | Item 21) | | |
| 20 | _ | Right overlay label (P/O PL 2.10 | 180 | |
| 0.4 | | Item 21) | | |
| 21 | _ | Overlay label kit (REF: PL 31.12 | The state of the s | |
| 00 | | Item 7) | The state of the s | |
| 22 | _ | Left frame cover support (Not | 22 📆 | |
| 22 | 1.441/00000 | Spared) | | |
| 23 24 | 144K00660 952K51010 | RFID Card reader (NOTE) USB MFF harness (Not shown) | | |
| 24 | 902N01010 | (NOTE) | | |
| | | (1401L) | | |
| NOTE: | Also part of kit, | PL 31.14 Item 16. | • | |
| | | | | |

W-8-0003-B

PL 3.22 Single Board Controller PWB Module

| Mod | ule | | | R |
|------|-----------|---|----------------------|---------------|
| Item | Part | Description | 1{2-4,6-11,14,18,22, | c D |
| 1 | _ | Single board controller module (Not Spared) (REP 3.6) | 25{4,14 | |
| 2 | 121E28131 | Hard disk drive (250Gb) (See NOTE 2) (REP 3.2) | 8 | 3 12 / / |
| 3 | 960K85508 | SBC PWB (REP 3.3) | | \mathcal{L} |
| 4 | _ | HDD cable (P/O PL 3.22 Item 25) | | |
| 5 | _ | SIM card (P/O PL 31.14 Item 2) | | 23 |
| 6 | 237E27477 | SD card (See NOTE 2) (REP 3.4) | | |
| 7 | _ | Service connector cover (P/O PL 3.22 Item 1) | | |
| 8 | _ | SBC cage (P/O PL 3.22 Item 1) | 10 | |
| 9 | _ | SBC cover (P/O PL 3.22 Item 1) | | B 15 22 |
| 10 | _ | Foreign interface device blanking plate (P/O PL 3.22 Item 1) | | EGG |
| 11 | _ | Gasket (P/O PL 3.22 Item 1) | | |
| 12 | _ | LED print head module to SBC PWB ribbon cable (P/O PL 60.35 Item 1) | | 19 |
| 13 | - | SBC PWB to Scanner PWB power/ comms harness (REF: PL 60.20 Item 5) | 7 | |
| 14 | | SBC PWB to Fax connector PWB ribbon cable (P/O PL 3.22 Item 25) | 20 | AD |
| 15 | _ | SBC PWB to UI control PWB power/comms harness (Not Spared) | 5 | 16 |
| 16 | - | SBC PWB to IOT PWB harness (Not Spared) | 21 0 18 | 24 |
| 17 | _ | SBC PWB to LVPS harness (P/O PL 1.10 Item 24) | Ī W | 13 |
| 18 | 960K27451 | Foreign device interface PWB (See NOTE 1) (REP 3.5) | | 4964 0368 |
| 19 | 105K37230 | Battery | ~ | |
| 20 | _ | Wireless network adapter (P/O PL 31.12 Item 10) | 14. | G F 17 |
| 21 | _ | Extension cable (P/O PL 31.12 Item 10) | | |
| 22 | _ | Fax module support (P/O PL 3.22 Item 1) | | |
| 23 | _ | SBC PWB to Scanner PWB data cable (REF: PL 60.20 Item 22) | | |
| 24 | 952K40550 | Foreign device interface ribbon cable (REP 3.5) | | |
| 25 | 952K37741 | SBC harness set | | |

NOTE: 1. Also supplied as part of PL 31.12 Item 11.

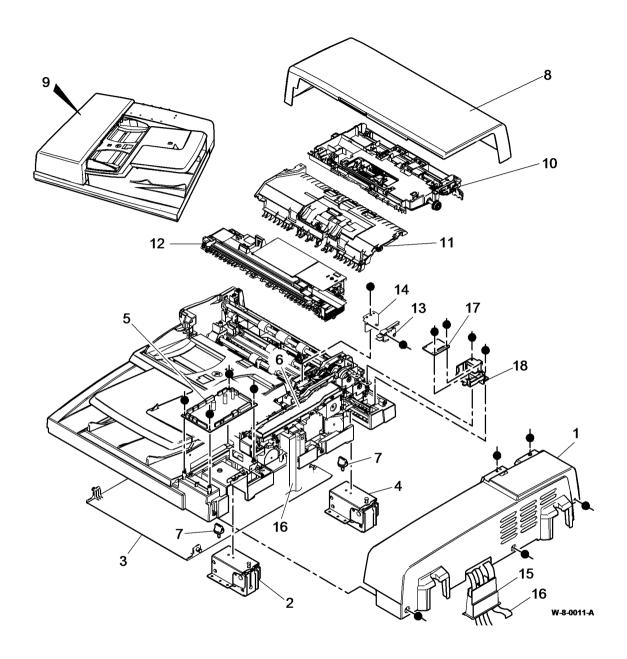
NOTE: 2. Refer to GP 41.

W-8-0006-B

PL 5.10 SPDH (Complete), Covers, SPDH PWB

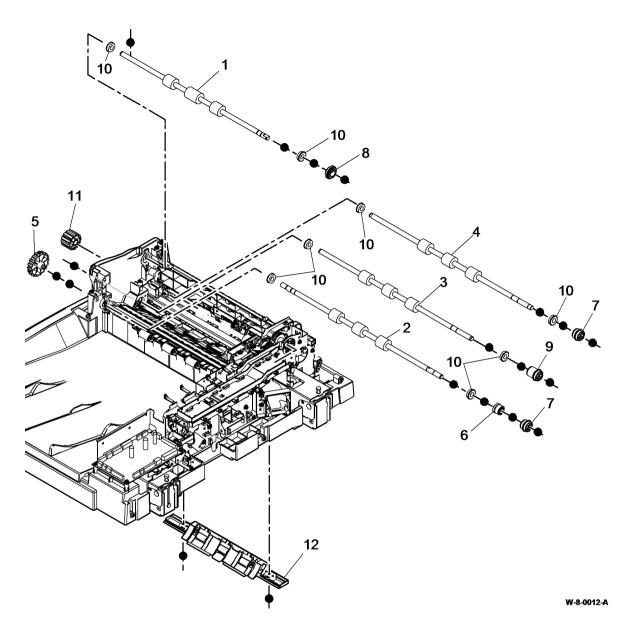
| J. J. | | |
|-------|-----------|-----------------------------------|
| Item | Part | Description |
| 1 | 848K83770 | Rear cover |
| 2 | _ | Right counterbalance (Not Spared) |
| | | (ADJ 5.2, ADJ 5.3) |
| 3 | 090K02600 | Document pad (REP 5.23) |
| 4 | _ | Left counterbalance (Not Spared) |
| | | (ADJ 5.2, ADJ 5.3) |
| 5 | 960K72570 | SPDH PWB |
| 6 | 117E43830 | Side 2 scan assembly power ribbon |
| | | cable (REP 5.22) |
| 7 | 826E66710 | Thumbscrew |
| 8 | _ | Top cover (REF: PL 5.20) |
| 9 | 084K42695 | SPDH (complete) (REP 5.19) |
| 10 | _ | Feed assembly (REF: PL 5.20) |
| | | (ADJ 5.3) |
| 11 | _ | Separation assembly (REF: PL |
| | | 5.25) |
| 12 | _ | Side 2 scan assembly (REF: PL |
| | | 60.30) |
| 13 | 110E21490 | Top cover interlock switch (S05- |
| | | 305) |
| 14 | _ | Mounting bracket (P/O PL 5.10 |
| | | Item 13) |
| 15 | - | Harness guide (REF: PL 60.15) |
| 16 | 117E43800 | Side 2 scan assembly data ribbon |
| | | cable (REP 5.22) |
| 17 | _ | Side 2 LED drive PWB (Not |
| | | Spared) |
| 18 | _ | Side 2 LED drive PWB support (P/ |
| | | O PL 5.10 Item 9) |

NOTE: To clean the SPDH, refer to ADJ 5.4.



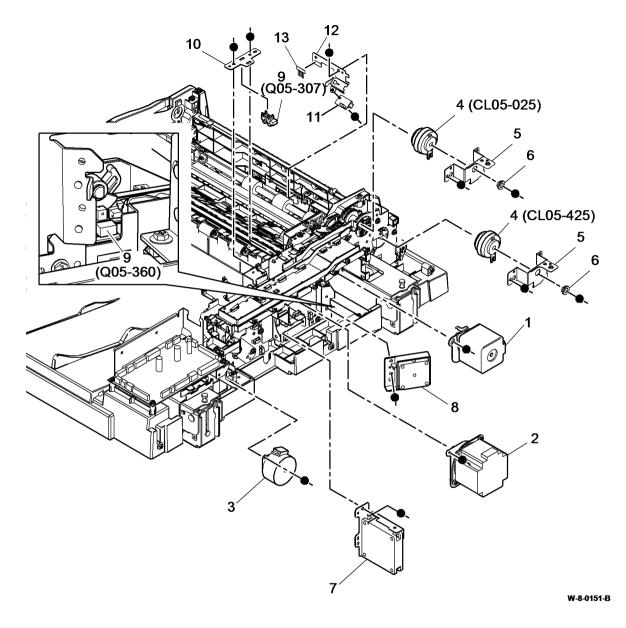
PL 5.17 SPDH Transport Assembly

| Part | Description |
|-----------|--|
| 059K84040 | Takeaway roll assembly (REP 5.5) |
| 059K84070 | Exit roll assembly (REP 5.7) |
| 059K84050 | Mid scan roll assembly (REP 5.18) |
| 059K84060 | Pre scan roll assembly (REP 5.17) |
| _ | Exit jam clearance knob (P/O PL |
| | 5.19 Item 24) (REP 5.7) |
| _ | Idler gear (P/O PL 5.19 Item 24) |
| _ | Drive gear (P/O PL 5.19 Item 24) |
| _ | Gear (P/O PL 5.19 Item 24) |
| _ | Pre scan pulley (P/O PL 5.19 Item |
| | 24) |
| _ | Bearing (P/O PL 5.19 Item 24) |
| _ | Pre scan jam clearance knob (P/O |
| | PL 5.19 Item 24) |
| 059K84880 | Lower pre scan roll assembly (REP 5.6) |
| | 059K84040 059K84070 059K84050 059K84060 - - - - - - |



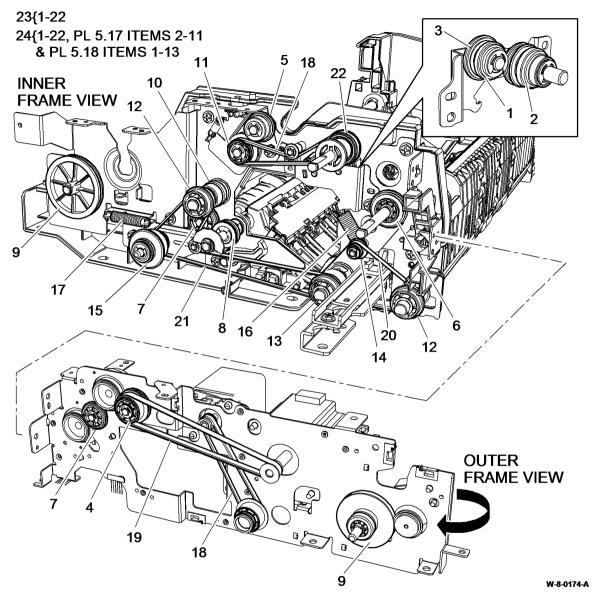
PL 5.18 SPDH Drive Assembly

| Item | Part | Description |
|------|-----------|---|
| 1 | 127K69270 | Read motor (MOT05-030) (REP 5.13) |
| 2 | 127K69260 | Feed motor (MOT05-020) (REP 5.12) |
| 3 | 127K69250 | Tray elevator motor (MOT05-390) (REP 5.24) |
| 4 | 005E35810 | Feed clutch (CL05-025) (REP 5.14)/Takeaway clutch (CL05-425) (REP 5.15) |
| 5 | _ | Bracket (Not Spared) |
| 6 | _ | Bearing (Not Spared) |
| 7 | 127E17510 | Motor cooling fan (MOT05-380) (REP 5.20) |
| 8 | 127E17520 | LED cooling fan (MOT05-370) (REP 5.21) |
| 9 | 130E19040 | Lift home position sensor (Q05- 307) (REP 5.4)/Calibration home position sensor (Q05-360) (REP 5.11) |
| 10 | _ | Sensor bracket (Not Spared) |
| 11 | 130E19090 | Reg sensor (Q05-340) (REP 5.10) |
| 12 | _ | Mounting bracket (Not Spared) |
| 13 | _ | Static eliminator (Not Spared) |



PL 5.19 SPDH Read Assembly

| PL 3. | 19 3200 | Read Assembly | |
|----------|------------------------|--|----|
| Item | Part | Description | 2 |
| 1 | _ | Retard roll intermediate drive gear (P/O PL 5.19 Item 23) | 2 |
| 2 | - | Retard roll driven gear (P/O PL 5.19 Item 23) | |
| 3 | _ | Retard roll drive gear (P/O PL 5.19 | 11 |
| 4 | - | Item 23) Feed clutch drive gear/pulley (P/O | F |
| 5 | _ | PL 5.19 Item 23) Feed assembly drive idler gear (P/ | O |
| 6 | _ | O PL 5.19 Item 23) Takeaway roll drive gear (P/O PL | |
| 7 | - | 5.19 Item 23) Calibration shutter idler gear/TAR clutch drive gear (P/O PL 5.19 Item | |
| 8 | _ | 23) Calibration shutter driven gear (P/O PL 5.19 Item 23) | ij |
| 9 | _ | Tray elevator reduction gear (P/O PL 5.19 Item 23) | 9 |
| 10 | _ | Calibration shutter drive gear (P/O PL 5.19 Item 23) | |
| 11 | _ | Feed assembly drive gear /pulley (P/O PL 5.19 Item 23) | |
| 12 | _ | Exit roll /pre-scan roll drive pulley (P/O PL 5.19 Item 23) | |
| 13 | - | Mid scan roll drive pulley (P/O PL | _ |
| 14 | _ | 5.19 Item 23) Pre scan belt idler pulley (P/O PL | |
| 15 | _ | 5.19 Item 23) Read motor intermediate pulley (P/ | |
| 16 | _ | O PL 5.19 Item 23) Read motor belt tension spring (P/ | L |
| 17 | _ | O PL 5.19 Item 23) Mid scan drive belt tension spring | |
| 18 | _ | (P/O PL 5.19 Item 23) Read motor belt / feed assembly | |
| 19 | - | drive belt (P/O PL 5.19 Item 23) Feed motor belt (P/O PL 5.19 Item | |
| 20 | - | 23) (REP 5.12) Pre-scan roll drive belt (P/O PL | |
| 21 | _ | 5.19 Item 23) Mid scan drive belt (P/O PL 5.19 | |
| 22 | _ | Item 23) Retard/ feed drive gear/pulley (P/O | |
| 23 24 | 007K20561 059K84860 | PL 5.19 Item 23) SPDH drive kit (REP 5.25, ADJ 5.1) Read assembly (REP 5.23) | |
| | | | |



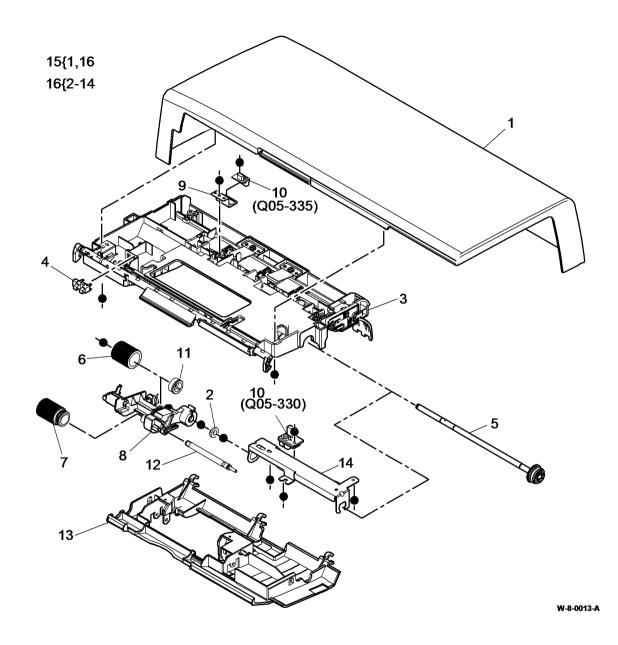
PL 5.20 SPDH Top Cover Assembly

| | | • |
|------|-----------|---|
| Item | Part | Description |
| 1 | - | Top cover (P/O PL 5.20 Item 15) (REP 5.1) |
| 2 | _ | Bushing (P/O PL 5.20 Item 15) |
| 3 | _ | Feed assembly frame (P/O PL 5.20 |
| 4 | 130E19040 | Item 15) (REP 5.2) Stack height sensor (Q05-310) |
| _ | | (REP 5.8) |
| 5 | - | Shaft (P/O PL 5.20 Item 15) |
| 6 | - | Feed roll (P/O PL 31.11 Item 7) |
| | | (See NOTE 2 & 3) (REP 5.2) |
| 7 | _ | Nudger roll (P/O PL 31.11 Item 7) |
| | | (See NOTE 2 & 3) (REP 5.2) |
| 8 | _ | Roll housing (P/O PL 5.20 Item 15) |
| 9 | _ | TAR sensor bracket (P/O PL 5.20 |
| | | Item 15) (REP 5.8) |
| 10 | 130E19090 | Feed sensor (Q05-330)/ Takeaway |
| | | sensor (Q05-335) (REP 5.8) |
| 11 | _ | Spacer (P/O PL 5.20 Item 15) |
| 12 | _ | Shaft (P/O PL 5.20 Item 15) |
| 13 | _ | Lower cover (P/O PL 5.20 Item 15) |
| 14 | _ | Mounting bracket (P/O PL 5.20 |
| | | Item 15) |
| 15 | 059K84850 | Top cover assembly (REP 5.1) |
| 16 | _ | Feed assembly (P/O PL 5.20 Item |
| | | 15) (REP 5.2) |

NOTE: 1.For the top cover interlock switch, refer to PL 5.10 ltem 13.

NOTE: 2.HFSI. To reset the HFSI count, refer to dC135.

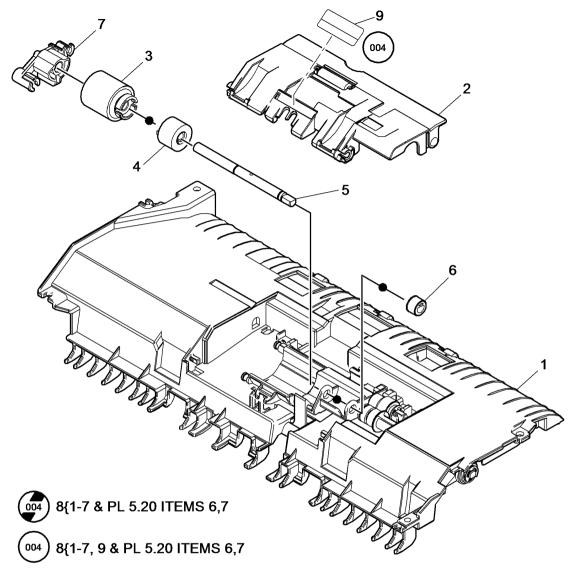
NOTE: 3.Also supplied with PL 5.25 Item 3.



PL 5.25 SPDH Separation Assembly

| Item | Part | Description |
|------|------|---|
| 1 | - | Separation frame (P/O PL 5.25 Item 8) |
| 2 | - | Retard roll cover (P/O PL 5.25 Item 8) |
| 3 | - | Retard roll (P/O PL 31.11 Item 7) (See NOTE) (REP 5.3) |
| 4 | _ | Coupling (P/O PL 5.25 Item 8) |
| 5 | _ | Shaft (P/O PL 5.25 Item 8) |
| 6 | _ | Cap (P/O PL 5.25 Item 8) |
| 7 | _ | Retard roll retainer (P/O PL 5.25 Item 8) (REP 5.3) |
| 8 | - | Separation assembly (Not Spared) (W/O TAG 004) (REP 5.3) |
| _ | _ | Separation assembly (P/O PL |
| | | 31.14 Item 15) (W/TAG 004) |
| 9 | - | Mylar guide (P/O PL 31.14 Item 14) (W/TAG 004) |

NOTE: HFSI. To reset the HFSI count, refer to dC135.



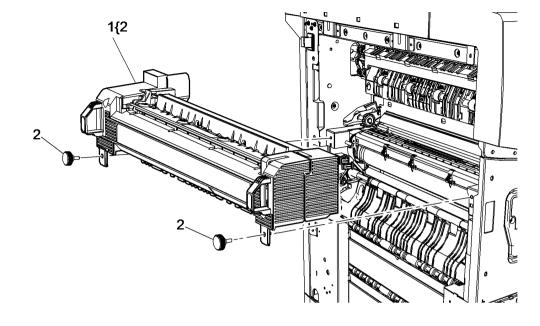
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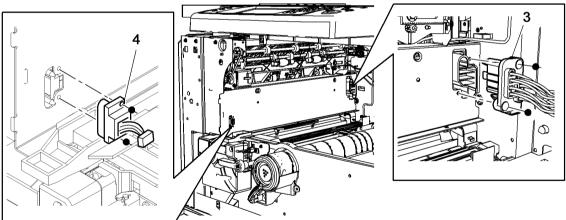
PL 5.30 Input Tray Assembly

| Item | - Part | Description | 2/5 8 0 12 18 |
|------|-----------|---|---|
| 1 | _ | Input tray assembly (complete) (REP 5.4) | 8 2{5,8,9,12,18 11 1{2,3 |
| 2 | _ | Tray upper assembly (P/O PL 31.14 Item 11) (W/TAG D-002) (REP 5.4) | 16{13-15,17 |
| 3 | 607K03220 | Tray lower assembly (REP 5.4) | |
| 4 | - | Tray lower cover (P/O PL 5.30 Item 3) | 5(Q05-325) |
| 5 | 130E19040 | Length sensor 1 (Q05-315) (REP 5.9)/Doc present sensor (Q05-309) (REP 5.16)/Width sensor 1 (Q05-325) (REP 5.16)/Width sensor 2 (Q05-326) (REP 5.16)/Width sensor 3 (Q05-327) (REP 5.16) | 5(Q05-326) 5(Q05-327) 12 14 20(D002) 5(Q05-309) |
| 6 | - | Doc present sensor actuator (P/O PL 31.14 Item 10) (W/TAG D-001) (REP 5.16) | D001 (D001) 17 17 17 18 13 13 |
| - | _ | Doc present sensor actuator (P/O PL 5.30 Item 3) (W/O TAG D-001) | 19 |
| 7 | _ | Restack arm (P/O PL 5.30 Item 1) | 3{4,5,6,7,9,10,16,19 |
| 8 | 059K84030 | Retard pad | |
| 9 | _ | Length sensor 2 (Q05-320) (P/O PL 31.14 Item 12) (REP 5.9) | |
| 10 | _ | Length sensor 1 actuator (P/O PL 5.30 Item 3) | |
| 11 | _ | Tray upper hinge (Not Spared) (REP 5.4) | 5(Q05-315) |
| 12 | _ | Sensor mounting plate (P/O PL 5.30 Item 2) | 9 |
| 13 | _ | Bearing (P/O PL 5.30 Item 16) | |
| 14 | _ | Shaft assembly (P/O PL 5.30 Item 16) (REP 5.4) | 10 |
| 15 | _ | Cam (P/O PL 5.30 Item 16) | |
| 16 | _ | Lift shaft assembly (P/O PL 5.30 Item 3) | |
| 17 | _ | Ground spring (P/O PL 5.30 Item 16) | |
| 18 | 130E19330 | Last sheet out sensor (Q05-308) (W/O TAG D-002) (REP 5.16) | |
| _ | - | Last sheet out sensor (Q05-308) (P/O PL 31.14 Item 12) (W/TAG D-002) | |
| 19 | _ | Actuator spring (P/O PL 31.14 Item 10) (REP 5.16) | W-8-0016-B |
| 20 | - | Filter (P/O PL 31.12 Item 3) (W/ TAG D-002) | |

PL 10.8 Fuser Module

| Item | Part | Description |
|------|-----------|---------------------------------|
| 1 | 109R00848 | Fuser module (50Hz) |
| _ | 109R00847 | Fuser module (60Hz) |
| 2 | _ | Thumbscrew (P/O PL 10.8 Item 1) |
| 3 | _ | Fuser connector (Not Spared) |
| 4 | _ | Fuser CRUM (Not Spared) |

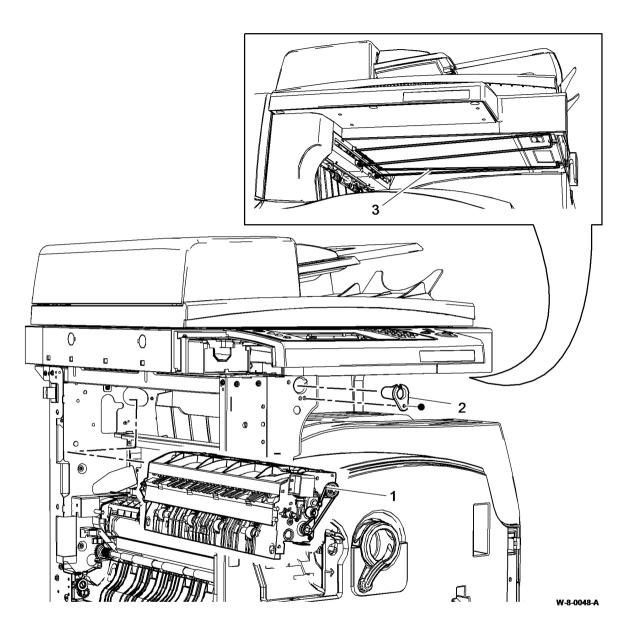




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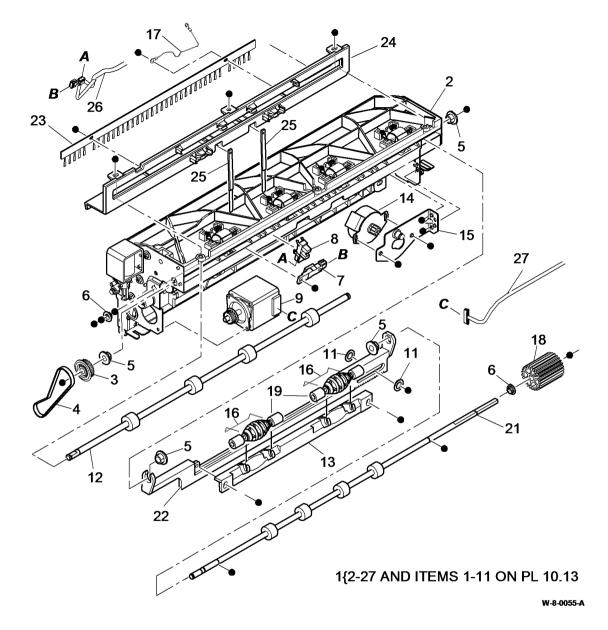
PL 10.10 Inverter Assembly (1 of 4)

| ltem | Part | Description |
|------|------|---|
| 1 | _ | Inverter assembly (Centre output tray) (REF: PL 10.11, PL 10.13) (REP 10.1) |
| - | - | Inverter assembly (Horizontal transport) (REF: PL 10.12, PL 10.13) (REP 10.1) |
| 2 | _ | Inverter locator (Not Spared) (REP 10.1) |
| 3 | _ | Diverter output guide (Centre output tray) (Not Spared) |



PL 10.11 Inverter Assembly (Centre Output Tray) (2 of 4)

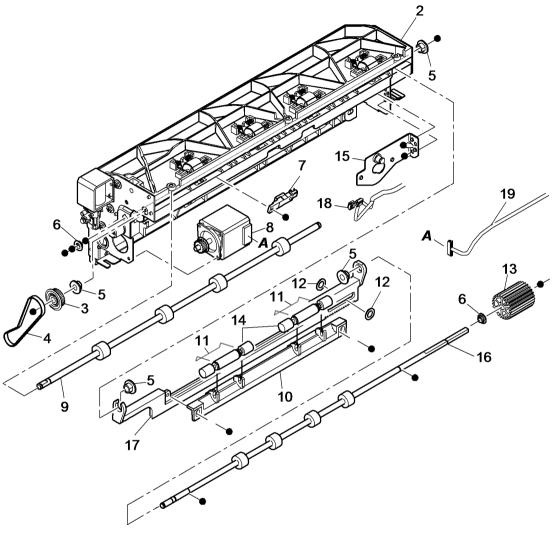
| Outpt | at 11 ay / (2 | - |
|-------|----------------|---|
| ltem | Part | Description |
| 1 | 112K01219 | Inverter assembly (REP 10.1) |
| 2 | _ | Exit guide housing (P/O PL 10.11 |
| | | Item 1) |
| 3 | _ | Pulley (21T) (P/O PL 10.11 Item 1) |
| 4 | _ | Drive belt (P/O PL 10.11 Item 1) |
| 5 | _ | Bearing (P/O PL 10.11 Item 1) |
| O | | (REP 10.5) |
| 6 | | Shaft bearing (P/O PL 10.11 Item 1) |
| U | _ | (REP 10.5) |
| 7 | | |
| 7 | _ | Post fuser sensor (Q10-120) (P/O |
| • | | PL 10.11 Item 1) |
| 8 | _ | Offset sensor (Q10-300) (P/O PL |
| | | 10.11 Item 1) |
| 9 | _ | Inverter motor (MOT10-030) (P/O |
| | | PL 10.11 Item 1) (REP 10.3) |
| 10 | _ | Not used |
| 11 | - | Locking washer (P/O PL 10.11 Item |
| | | 1) |
| 12 | _ | Drive roll (P/O PL 10.11 Item 1) |
| 13 | _ | Corrugator roll support (P/O PL |
| | | 10.11 Item 1) |
| 14 | _ | Offset motor (MOT10-500) (P/O PL |
| | | 10.11 Item 1) (REP 10.4) |
| 15 | _ | Offset motor bracket (P/O PL 10.11 |
| | | Item 1) |
| 16 | _ | Nip spring (P/O PL 10.11 Item 1) |
| 17 | _ | Ground wire (P/O PL 10.11 Item 1) |
| 18 | _ | Exit drive gear (P/O PL 10.11 Item |
| 10 | | 1) (REP 10.5) |
| 19 | _ | Corrugator roll (P/O PL 10.11 Item |
| 13 | _ | 1) (REP 10.5) |
| 20 | | , |
| 20 | _ 006E44707 | Not used |
| 21 | 806E44797 | Exit roll (REP 10.5) |
| 22 | 059E12307 | Shuttle (REP 10.5) |
| 23 | _ | Static eliminator (P/O PL 10.11 Item |
| | | 1) |
| 24 | _ | Inverter cover (P/O PL 10.11 Item |
| | | 1) |
| 25 | - | Bail arm assembly (P/O PL 10.11 |
| | | Item 1) |
| 26 | _ | Sensor harness (P/O PL 1.10 Item |
| | | 24) |
| 27 | _ | Inverter motor harness (P/O PL |
| | | 1.10 Item 24) |
| | | • |



PL 10.12 Inverter Assembly (Horizontal Transport) (3 of 4)

| • | | . , , , |
|------|-----------|---|
| Item | Part | Description |
| 1 | 112K01280 | Inverter assembly (REP 10.1) |
| 2 | _ | Exit guide housing (P/O PL 10.12 |
| | | Item 1) |
| 3 | _ | Pulley (21T) (P/O PL 10.12 Item 1) |
| 4 | - | Drive belt (P/O PL 10.12 Item 1) |
| 5 | - | Bearing (P/O PL 10.12 Item 1) (REP 10.5) |
| 6 | _ | Shaft bearing (P/O PL 10.12 Item |
| 7 | | 1) (REP 10.5) Post fuser sensor (Q10-120) (P/O |
| , | _ | PL 10.12 Item 1) |
| 8 | _ | Inverter motor (MOT10-030) (P/O |
| Ū | | PL 10.12 Item 1) (REP 10.3) |
| 9 | _ | Drive roll (P/O PL 10.12 Item 1) |
| 10 | _ | Nip roll support (P/O PL 31.14 Item |
| | | 5) (See NOTE) |
| 11 | _ | Nip spring (P/O PL 31.14 Item 5) |
| | | (See NOTE) |
| 12 | - | Locking washer (P/O PL 10.12 Item |
| | | 1) |
| 13 | - | Exit drive gear (P/O PL 10.12 Item |
| 4.4 | | 1) (REP 10.5) |
| 14 | _ | Nip roll (P/O PL 31.14 Item 5) (See |
| 15 | | NOTE) (REP 10.5) |
| 15 | _ | Motor bracket (P/O PL 10.12 Item 1) |
| 16 | 806E44797 | Exit roll (REP 10.5) |
| 17 | 059E12307 | Shuttle (REP 10.5) |
| 18 | - | Inverter sensor harness (P/O PL |
| | | 1.10 Item 24) |
| 19 | _ | Inverter motor harness (P/O PL |
| | | 1.10 Item 24) |

NOTE: Also supplied as part of PL 31.14 Item 5.

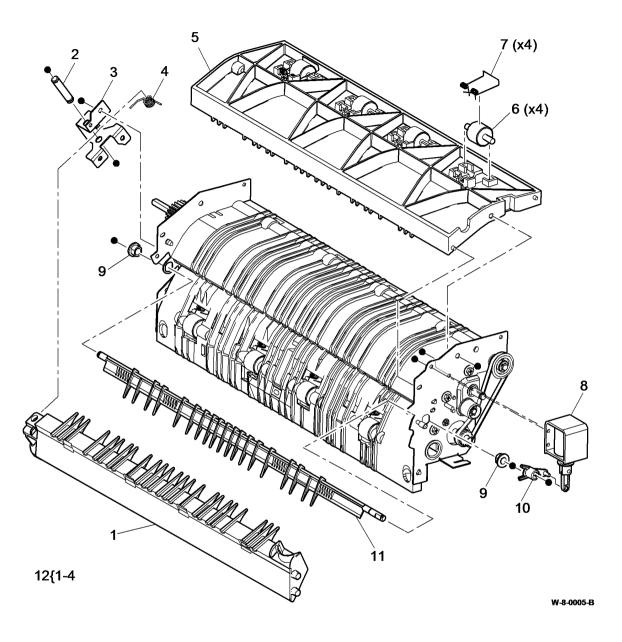


1{2-19 AND ITEMS 1-11 ON PL 10.13

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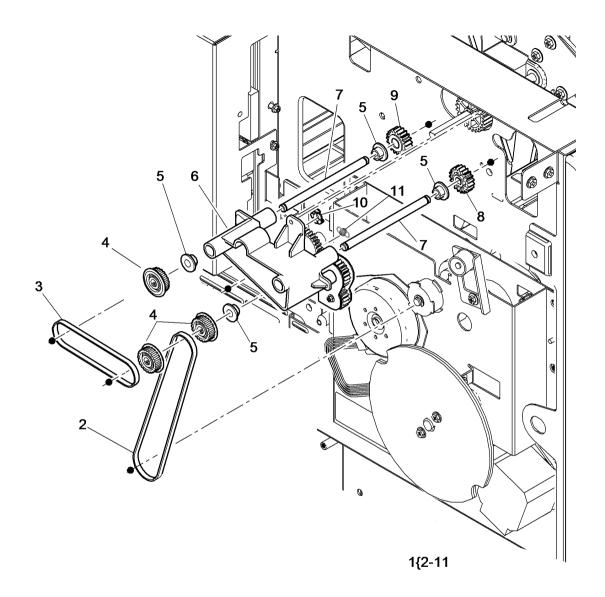
PL 10.13 Inverter Assembly (4 of 4)

| . – . | 1 = 10110 111101101 / 1000111101 (1 0 1 1 / | | |
|-------|--|-------------------------------------|--|
| Item | Part | Description | |
| 1 | _ | Jam clearance paper guide (P/O PL | |
| | | 10.13 Item 12) | |
| 2 | _ | Hinge pin (P/O PL 10.13 Item 12) | |
| 3 | _ | Hinge pin bracket (P/O PL 10.13 | |
| | | Item 12) | |
| 4 | _ | Spring (P/O PL 10.13 Item 12) | |
| 5 | _ | Upper exit guide (P/O PL 10.11 | |
| | | Item 1, PL 10.12 Item 1) | |
| 6 | _ | Idle roll (P/O PL 10.11 Item 1, PL | |
| | | 10.12 Item 1) | |
| 7 | _ | Spring (P/O PL 10.11 Item 1, PL | |
| | | 10.12 Item 1) | |
| 8 | _ | Inverter gate solenoid (SOL10-045) | |
| | | (P/O PL 10.11 Item 1, PL 10.12 | |
| | | Item 1) | |
| 9 | _ | Bearing (P/O PL 10.11 Item 1, PL | |
| | | 10.12 Item 1) (REP 10.5) | |
| 10 | - | Pivot arm (P/O PL 10.11 Item 1, PL | |
| | | 10.12 Item 1) | |
| 11 | _ | Inverter gate (P/O PL 10.11 Item 1, | |
| | | PL 10.12 Item 1) | |
| 12 | 927K02460 | Jam clearance paper guide & hinge | |
| | | assembly (REP 10.8) | |



PL 10.14 Exit Drive Assembly

| | | • |
|------|-----------|------------------------------------|
| Item | Part | Description |
| 1 | 007K20735 | Exit drive assembly (REP 10.2, |
| | | ADJ 40.1) |
| 2 | _ | Exit drive belt (P/O PL 10.14 Item |
| | | 1) |
| 3 | _ | Belt (P/O PL 10.14 Item 1) |
| 4 | _ | Pulley (P/O PL 10.14 Item 1) |
| 5 | _ | Bearing (P/O PL 10.14 Item 1) |
| 6 | _ | Exit drive housing (P/O PL 10.14 |
| | | Item 1) |
| 7 | _ | Drive shaft (P/O PL 10.14 Item 1) |
| 8 | _ | Drive gear (P/O PL 10.14 Item 1) |
| 9 | _ | Clutch gear (P/O PL 10.14 Item 1) |
| 10 | _ | Offset bearing (P/O PL 10.14 Item |
| | | 1) |
| 11 | _ | Spring (P/O PL 10.14 Item 1) |

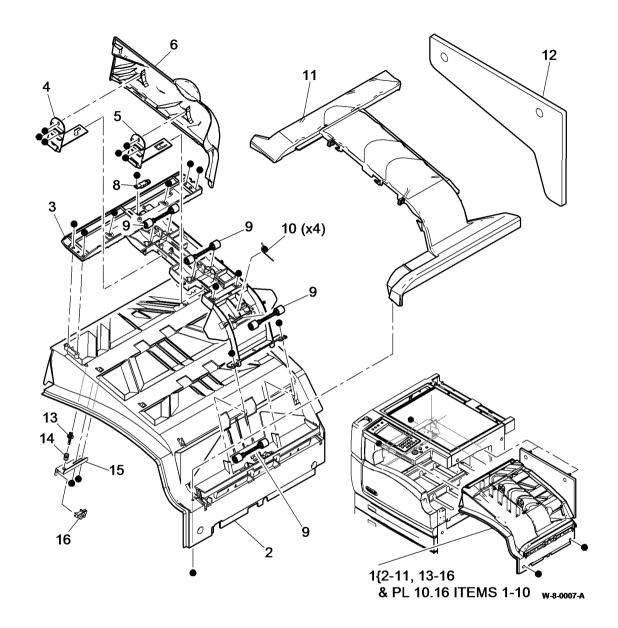


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PL 10.15 Horizontal Transport Assembly (1 of 2)

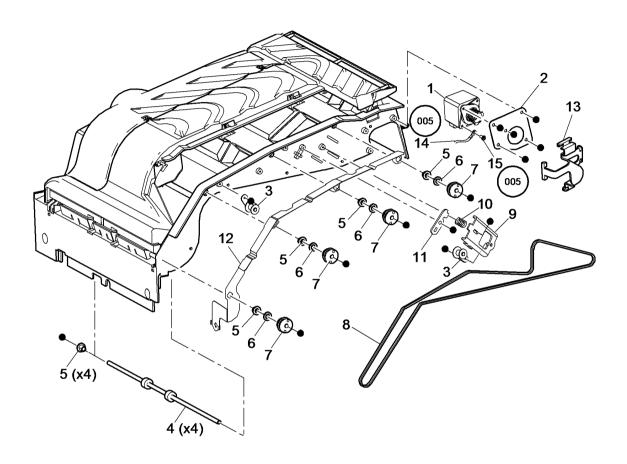
| | • ` | • |
|------|-----------|---|
| Item | Part | Description |
| 1 | 859K03118 | Horizontal transport assembly (See NOTE) (REP 10.6) |
| 2 | _ | Lower transport assembly (P/O PL 10.15 Item 1) |
| 3 | _ | Baffle assembly (P/O PL 10.15 Item 1) |
| 4 | _ | Left hinge (P/O PL 10.15 Item 1) |
| 5 | - | Right hinge (P/O PL 10.15 Item 1) |
| 6 | - | Jam clearance cover (P/O PL 10.15 Item 1) |
| 7 | _ | Not used |
| 8 | _ | Horizontal transport entry sensor (Q10-041) (P/O PL 10.15 Item 1) |
| 9 | _ | Idler roll (P/O PL 10.15 Item 1) |
| 10 | _ | Spring (P/O PL 10.15 Item 1) |
| 11 | _ | Top cover (P/O PL 10.15 Item 1) |
| 12 | _ | Backplate (P/O PL 31.14 Item 5) (REP 28.1) |
| 13 | _ | Interlock actuator (P/O PL 10.15 Item 1) |
| 14 | _ | Actuator spring (P/O PL 10.15 Item 1) |
| 15 | _ | Sensor bracket (P/O PL 10.15 Item 1) |
| 16 | 130E18220 | Horizontal transport interlock sensor (Q10-042) |

NOTE: Also supplied as part of PL 31.14 Item 5.



PL 10.16 Horizontal Transport Assembly (2 of 2)

| | • • | • |
|------|-----------|--|
| Item | Part | Description |
| 1 | 927K02400 | Horizontal transport motor (MOT10-040) (REP 10.7) |
| 2 | - | Motor support bracket (P/O PL 10.15 Item 1) |
| 3 | _ | Idler (P/O PL 10.15 Item 1) |
| 4 | - | Horizontal transport roll (P/O PL 10.15 Item 1) |
| 5 | _ | Bearing (P/O PL 10.15 Item 1) |
| 6 | _ | Washer (P/O PL 10.15 Item 1) |
| 7 | _ | Pulley (P/O PL 10.15 Item 1) |
| 8 | 023E32990 | Horizontal transport drive belt (REP 10.7) |
| 9 | _ | Belt tensioner bracket (P/O PL 10.15 Item 1) |
| 10 | _ | Tension spring (P/O PL 10.15 Item 1) |
| 11 | _ | Spring anchor (P/O PL 10.15 Item 1) |
| 12 | _ | Ground strip (P/O PL 10.15 Item 1) |
| 13 | - | Pulley cover (Not Spared) (REP 10.7) |
| 14 | _ | Ground wire (P/O PL 31.14 Item 13) (W/TAG 005) |
| 15 | - | Ground wire screw (P/O PL 31.14 Item 13) (W/TAG 005) |

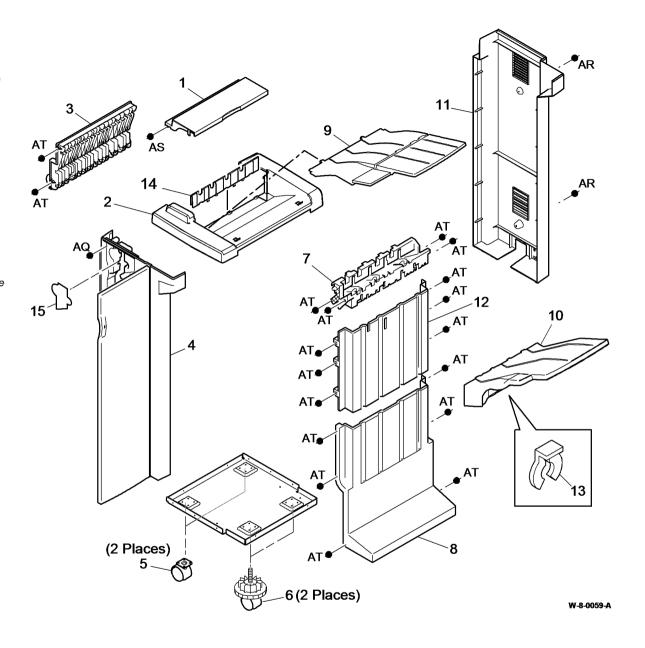


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PL 12.10 2K LCSS Covers

| Item | Part | Description |
|------|-----------|--|
| 1 | 101E29920 | Exit cover |
| 2 | 848E97182 | Top cover (REP 12.1-110) |
| 3 | 848K31330 | Entry guide cover (REP 12.15-110 |
| 4 | 848K98090 | Front door cover assembly (REP |
| | | 12.1-110) |
| 5 | 017K03750 | Fixed caster |
| 6 | 017K04520 | Adjustable caster |
| 7 | _ | Output cover (Not Spared) |
| 8 | 802K48320 | Lower right cover |
| 9 | 050K75970 | Bin 0 |
| 10 | 050K75960 | Bin 1 (ADJ 12.1-110) |
| 11 | 848K95900 | Rear cover (REP 12.1-110) |
| 12 | _ | Upper right cover (Not Spared) |
| 13 | 019K13380 | Bin 1 alignment clip |
| 14 | 848E97200 | Top centre cover |
| 15 | _ | Hole punch assembly cover (Not Spared) |

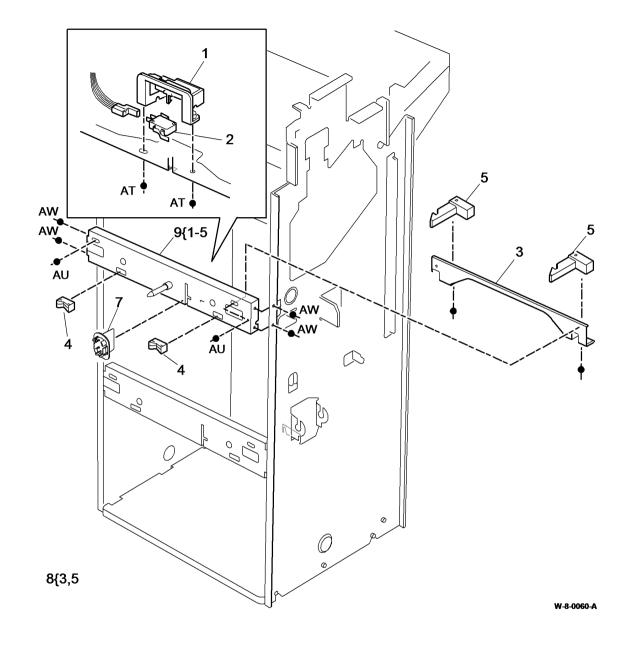
NOTE: Refer to ADJ 12.2-110 to align the LCSS to the machine.



PL 12.15 2K LCSS Docking Latch

| Item | Part | Description |
|------|-----------|---|
| 1 | _ | Sensor cover (P/O PL 12.15 Item 9) |
| 2 | 110K13980 | Docking interlock switch (S12-177) (See NOTE) |
| 3 | _ | Link bracket assembly (P/O PL |
| | | 12.15 Item 8) |
| 4 | _ | Stopper (P/O PL 12.15 Item 9) |
| 5 | _ | Docking latch (P/O PL 12.15 Item |
| | | 8) |
| 6 | _ | Not used |
| 7 | 120K03451 | Docking actuator (See NOTE) |
| 8 | 003K20930 | Docking latch assembly (See NOTE) (REP 12.16-110) |
| 9 | 003K20940 | Mounting stay assembly |

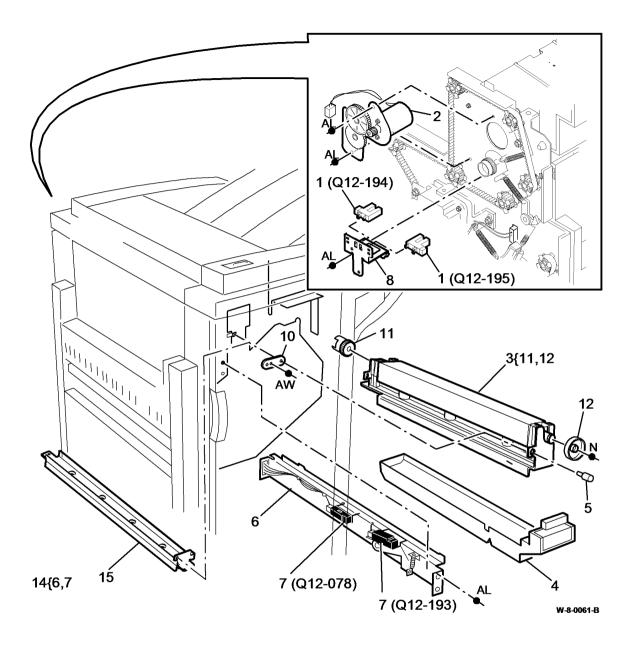
NOTE: Also comes as part of mounting stay assembly PL 12.15 Item 9.



PL 12.20 2K LCSS Hole Punch Unit

| . – | 12.20 ZN LO | oo nole i unch onit |
|------|-------------|---|
| Item | Part | Description |
| 1 | 130E10360 | Punch head home sensor (Q12- 194), Punch head present sensor (Q12-195) (REP 12.7-110) |
| 2 | 127K55900 | Punch head motor assembly (MOT12-244) (REP 12.7-110) |
| 3 | - | Hole punch unit (see below for variants) (See NOTE) (REP 12.7-110) |
| _ | 180K01330 | 2 Hole (XE) |
| - | - | 4 Hole (Sweden) (P/O PL 31.11 Item 2) |
| _ | _ | 4 Hole (XE) (P/O PL 31.11 Item 2) |
| _ | 180K01500 | 3 Hole , |
| 4 | 093E03821 | Chad bin |
| 5 | _ | Thumbscrew (Not Spared) |
| 6 | _ | Bracket (P/O PL 12.20 Item 14) |
| 7 | 130E10380 | Punch sensor 1 (Q12-078), Chad bin level sensor (Q12-193) (P/O PL 12.20 Item 14) (REP 12.7-110) |
| 8 | _ | Sensor bracket (Not Spared) |
| 9 | _ | Not used |
| 10 | - | Bracket (Not Spared) |
| 11 | - | Punch drive gear (P/O PL 12.20 Item 3) |
| 12 | _ | Punch cam (P/O PL 12.20 Item 3) |
| 13 | _ | Not used |
| 14 | _ | Punch sensor assembly (Not Spared) |
| 15 | 014K10610 | Hole punch guide assembly |

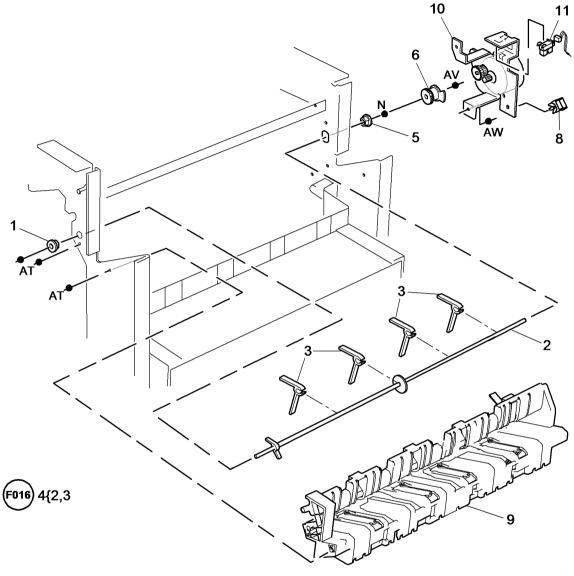
NOTE: Refer to PL 31.11 Item 2 for other LCSS hole punch kits.



PL 12.25 2K LCSS Paddle Shaft Assembly

| Item | Part | Description |
|------|-----------|-----------------------------------|
| 1 | _ | Bush (Not Spared) |
| 2 | _ | Shaft (P/O PL 12.25 Item 4) |
| 3 | _ | Paddle (P/O PL 12.25 Item 4) (See |
| | | NOTE) (REP 12.18-110) |
| 4 | _ | Paddle shaft assembly (REF: PL |
| | | 31.12 Item 2) (W/TAG F-016) |
| | | (REP 12.12-110) |
| 5 | 013E25790 | Nylon bearing |
| 6 | _ | Gear and flag assembly (Not |
| | | Spared) |
| 7 | _ | Not used |
| 8 | _ | Cable clamp (Not Spared) |
| 9 | _ | Output cover (Not Spared) |
| 10 | 127K62580 | Paddle roll motor assembly |
| | | (MOT12-238) (REP 12.12-110) |
| 11 | 130E10360 | Paddle roll home sensor (Q12-186) |
| | | |

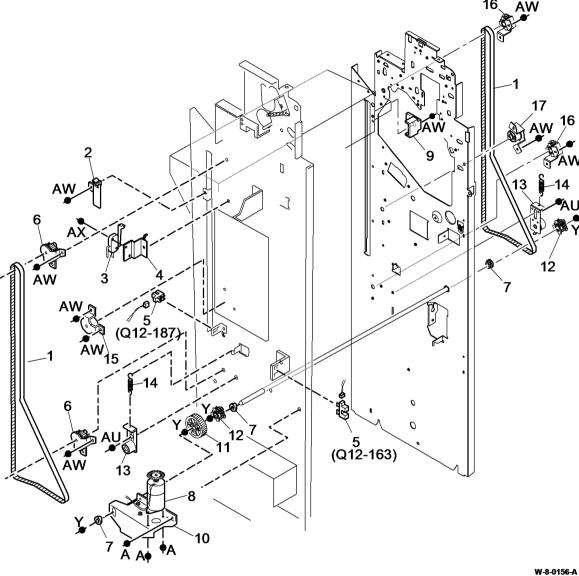
NOTE: Paddles are also supplied (4 off) as a kit PL 31.12 ltem 5.



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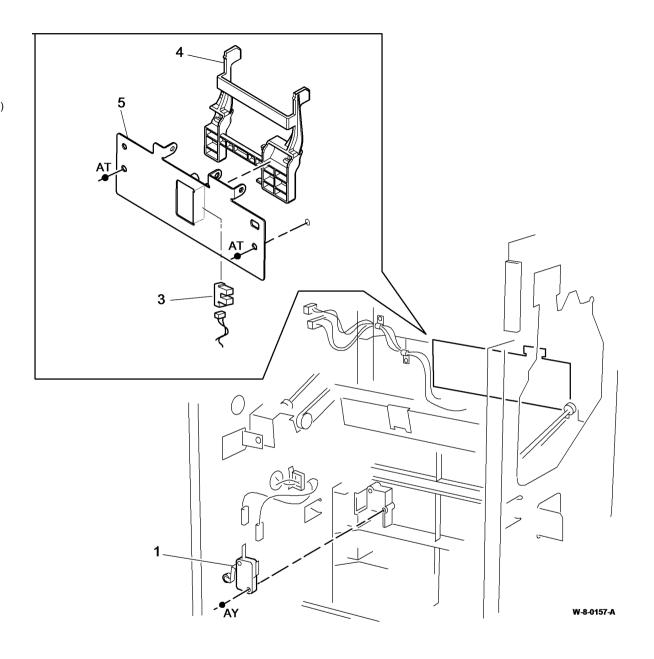
PL 12.30 2K LCSS Bin 1 Control Components (1 of 2)

| · · · · · | () | ·· -/ |
|-----------|-----------|--|
| Item | Part | Description |
| 1 | 023E24320 | Bin 1 drive belt (REP 12.5-110) |
| 2 | _ | Rear belt clamp (Not Spared) (ADJ 12.1-110) |
| 3 | 110E20180 | Bin 1 upper limit switch (S12-190) |
| 4 | _ | Sensor bracket (Not Spared) |
| 5 | 130E10360 | Bin 1 90% full sensor (Q12-187)/ Bin 1 motor encoder sensor (Q12- 163) |
| 6 | - | Rear pulley (Not Spared) (ADJ 40.1) |
| 7 | 013E37470 | Bearing |
| 8 | 127K55891 | Bin 1 elevator motor (MOT12-241) |
| 9 | _ | Front belt clamp (Not Spared) (ADJ 12.1-110) |
| 10 | _ | Motor bracket (Not Spared) |
| 11 | _ | Drive gear (Not Spared) |
| 12 | _ | Drive pulley assembly (Not Spared) |
| 13 | _ | Belt tensioner (Not Spared) (ADJ 40.1) |
| 14 | _ | Spring (Not Spared) |
| 15 | _ | Rear idler (Not Spared) (ADJ 40.1) |
| 16 | _ | Front pulley (Not Spared) (ADJ 40.1) |
| 17 | _ | Front idler (Not Spared) (ADJ 40.1) |



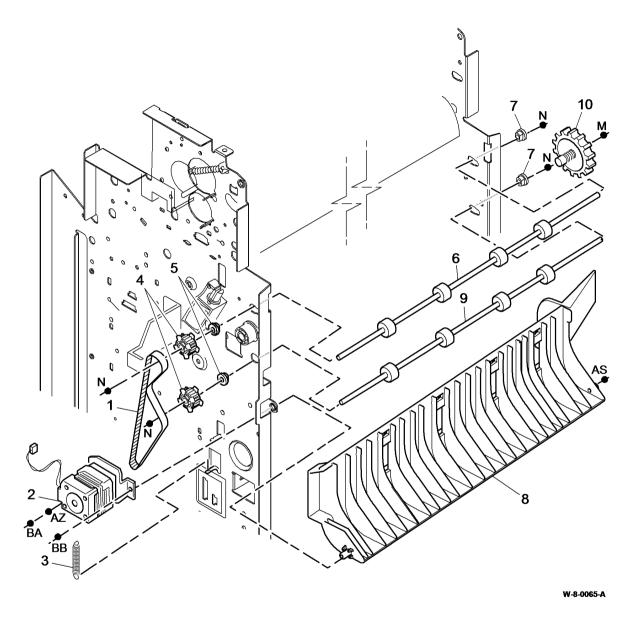
PL 12.35 2K LCSS Bin 1 Control Components (2 of 2)

| Item | Part | Description |
|------|-----------|---|
| 1 | 110K13990 | Bin 1 lower limit switch (S12-191) |
| 2 | _ | Not used |
| 3 | 130E10360 | Bin 1 upper level sensor (Q12-188) (REP 12.11-110) |
| 4 | _ | Actuator (Not Spared) |
| 5 | _ | Sensor support assembly (Not Spared) |



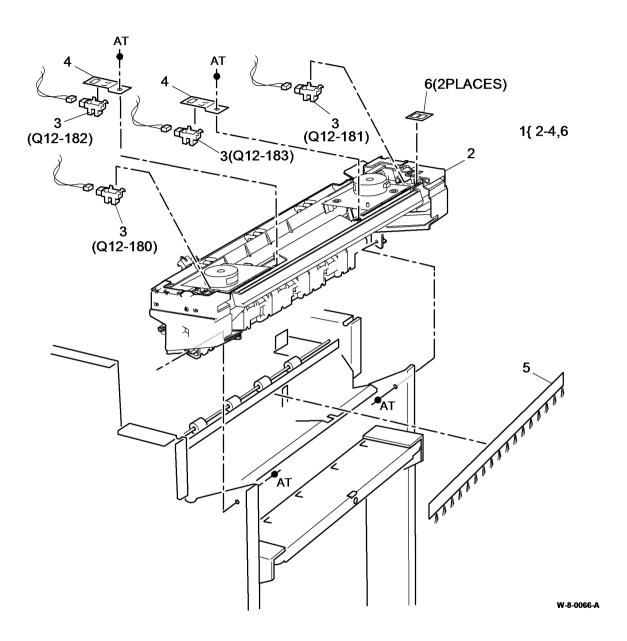
PL 12.40 2K LCSS Paper Entry Transport

| Item | Part | Description |
|------|-----------|--------------------------------------|
| 1 | 023E24340 | Input drive belt (REP 12.2-110) |
| 2 | 127K55860 | Transport motor 1 (MOT12-223) |
| | | (REP 12.2-110, ADJ 12.4-110) |
| 3 | _ | Spring (Not Spared) |
| 4 | _ | Pulley (Not Spared) |
| 5 | 013E37460 | Dry bearing |
| 6 | _ | Feed roll shaft (short) (Not Spared) |
| 7 | 013E37470 | Bearing |
| 8 | _ | Jam clearance guide assembly |
| | | (REF: PL 12.70 Item 1) |
| 9 | _ | Feed roll shaft (long) (Not Spared) |
| 10 | 006K32780 | Thumb wheel |



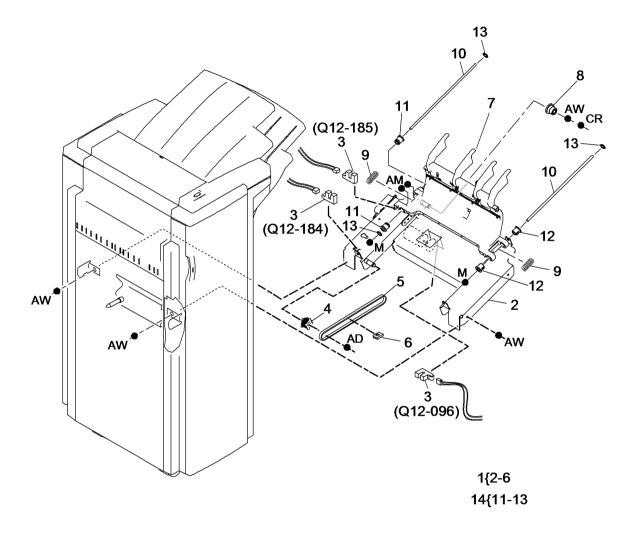
PL 12.45 2K LCSS Tamper Assembly

| | | • |
|------|-----------|--------------------------------------|
| Item | Part | Description |
| 1 | 049K12121 | Tamper assembly (REP 12.6-110) |
| 2 | _ | Tamper unit (P/O PL 12.45 Item 1) |
| 3 | 130E10360 | Front tamper home sensor (Q12- |
| | | 180),Front tamper away sensor |
| | | (Q12-182), Rear tamper home |
| | | sensor (Q12-181), Rear tamper |
| | | away sensor (Q12-183) |
| 4 | _ | Sensor bracket (P/O PL 12.45 Item |
| | | 1) |
| 5 | _ | Static eliminator (stacker) (REF: PL |
| | | 12.65 Item 7) |
| 6 | _ | Sensor retainer (P/O PL 12.45 Item |
| | | 1) |



PL 12.50 2K LCSS Ejector Assembly

| | | - |
|------|-----------|-------------------------------------|
| Item | Part | Description |
| 1 | 054K43583 | Ejector assembly (REP 12.10-110) |
| 2 | _ | Ejector base (P/O PL 12.50 Item 1) |
| 3 | 130E10360 | Ejector home sensor (Q12-184), |
| | | Ejector out sensor (Q12-185), |
| | | Ejector motor encoder sensor |
| | | (Q12-096) (REP 12.10-110) |
| 4 | _ | Pulley (P/O PL 12.50 Item 1) |
| 5 | 023E24330 | Ejector belt (REP 12.17-110) |
| 6 | _ | Clip (P/O PL 12.50 Item 1) |
| 7 | 019K13390 | Support finger set (Qty. 4) |
| 8 | 020K21490 | Pulley/drive gear |
| 9 | _ | Spring (P/O PL 12.50 Item 1) |
| 10 | _ | Shaft (P/O PL 12.50 Item 1) |
| 11 | _ | Slide ejector bearing (P/O PL 12.50 |
| | | Item 14) |
| 12 | _ | Wide slide ejector bearing (P/O PL |
| | | 12.50 Item 14) |
| 13 | _ | Cushion washer (P/O PL 12.50 |
| | | Item 14) |
| 14 | 604K67690 | LCSS bearing assembly kit |

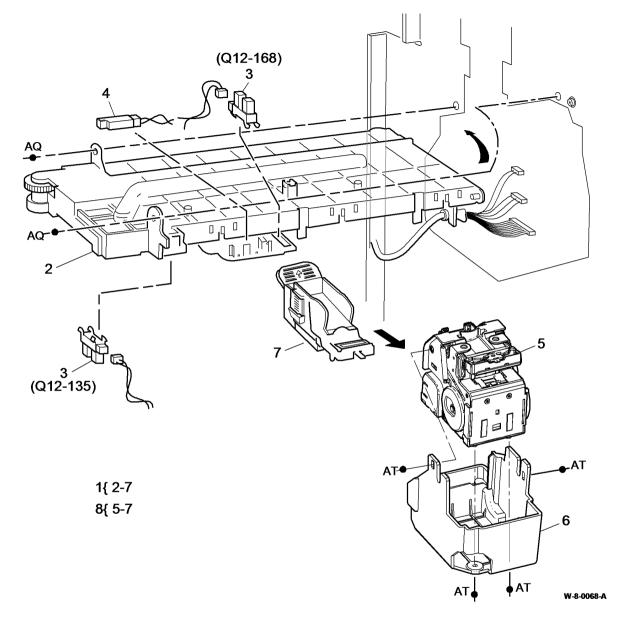


W-8-0067-A

PL 12.55 2K LCSS Staple Head Unit/ Traverse Assembly

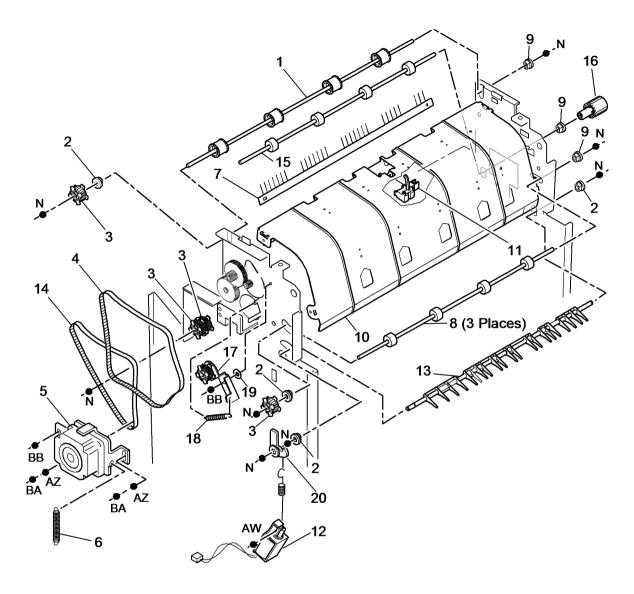
| | | - |
|------|-----------|---|
| Item | Part | Description |
| 1 | 014K11543 | Stapler traverse assembly (REP 12.8-110) |
| 2 | _ | Head traverse unit (P/O PL 12.55 Item 1) |
| 3 | 130E10360 | Staple home sensor (Q12-135), Stapler index sensor (Q12-168) |
| 4 | 130E10380 | SH1 Paper sensor (Q12-196) |
| 5 | _ | Staple head unit (P/O PL 12.55 Item 8) (REP 12.9-110) |
| 6 | _ | Stapler cover (P/O PL 12.55 Item 1) |
| 7 | _ | Staple cartridge (REF: PL 26.10 Item 11) (See NOTE) |
| 8 | 029K04691 | Staple head assembly |

NOTE: To replace staples only, order PL 26.11 Item 4.



PL 12.60 2K LCSS Bin 0 Entry

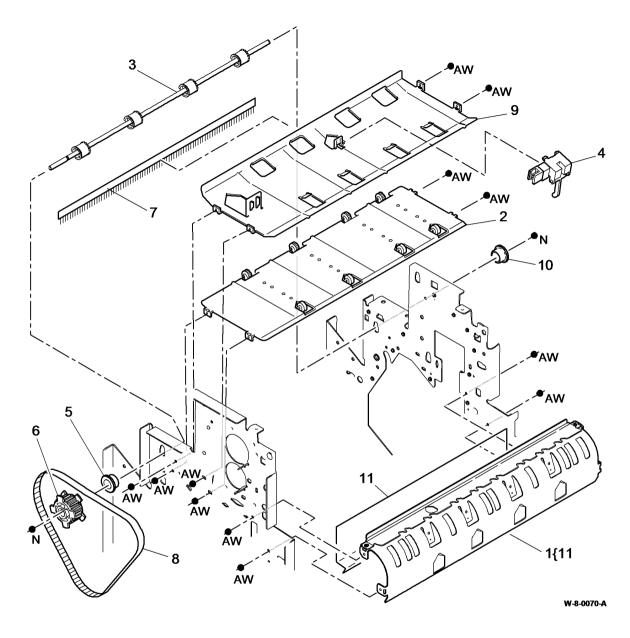
| | 12.00 ZIX EC | OO Diii o Liiti y |
|------|--------------|--|
| Item | Part | Description |
| 1 | 006K32810 | Top tray exit shaft |
| 2 | 013E25790 | Nylon bearing |
| 3 | _ | Pulley (Not Spared) |
| 4 | 023E24330 | Intermediate paper drive belt (REP 12.3-110) |
| 5 | 127K55870 | Transport motor 2 (MOT12-224) (REP 12.4-110, ADJ 12.4-110) |
| 6 | _ | Spring (Not Spared) |
| 7 | 115E13440 | Static eliminator |
| 8 | 006K32840 | Feed roll shaft (short) |
| 9 | 013E37460 | Bearing |
| 10 | 117K54510 | Paper guide (REP 12.20-110) |
| 11 | 130E11440 | Top tray exit sensor (Q12-107) (REP 12.20-110) |
| 12 | 121K45010 | Exit diverter solenoid (SOL12-225) |
| 13 | - | Exit diverter gate (P/O PL 31.12 Item 14) |
| 14 | 023E24340 | Paper output drive belt (REP 12.4-110) |
| 15 | _ | Drive shaft assembly (Not Spared) |
| 16 | 006K33960 | Jam clearance knob |
| 17 | _ | Belt tensioner (Not Spared) |
| 18 | _ | Spring (Not Spared) |
| 19 | _ | Washer (Not Spared) |
| 20 | _ | Actuator (Not Spared) |



W-8-0069-A

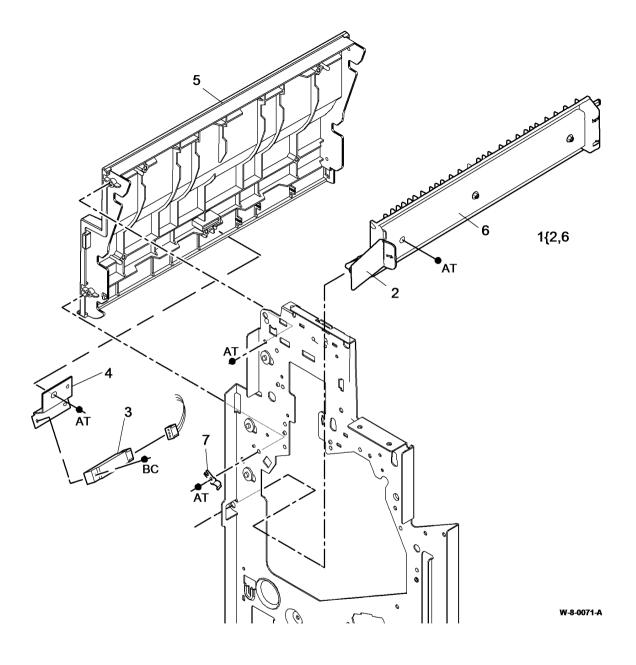
PL 12.65 2K LCSS Bin 1 Entry

| Item | Part | Description |
|------|-----------|--|
| 1 | 032K04610 | Left paper guide |
| 2 | _ | Lower right paper guide (Not |
| | | Spared) (REP 12.19-110) |
| 3 | 006K32790 | Ejector drive shaft (REP 12.19-110) |
| 4 | 130E11440 | Compiler exit sensor (Q12-106) |
| 5 | 013E25790 | Nylon bearing |
| 6 | _ | Pulley (Not Spared) |
| 7 | 115E11810 | Static eliminator (stacker) |
| 8 | _ | Paper output drive belt (REF: PL |
| | | 12.60 Item 14) |
| 9 | _ | Upper right paper guide (Not |
| | | Spared) (REP 12.19-110) |
| 10 | 013E37460 | Bearing |
| 11 | _ | Mylar safety cover (P/O PL 12.65 Item 1) |



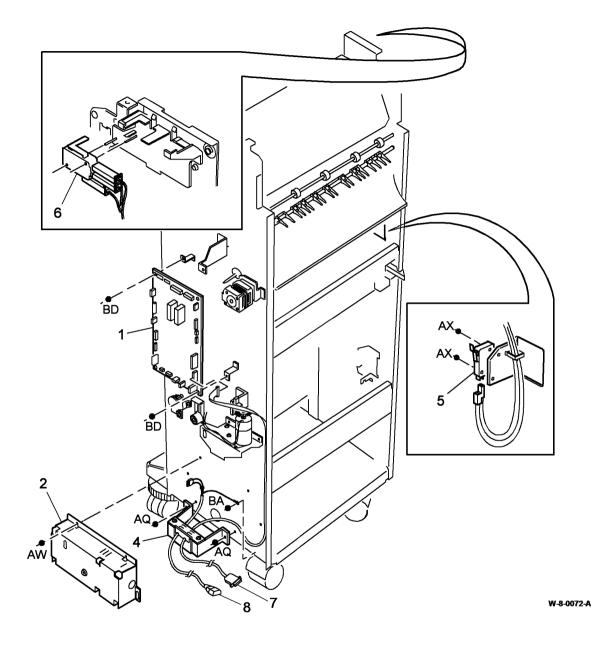
PL 12.70 2K LCSS Entry Guide Cover/ Jam Clearance Guide

| Item | Part | Description |
|------|-----------|-----------------------------------|
| 1 | 032K09671 | Jam clearance guide assembly |
| 2 | _ | Jam clearance handle (P/O PL |
| | | 12.70 Item 1) |
| 3 | 130E10380 | Entry sensor (Q12-077) |
| 4 | _ | Sensor bracket (Not Spared) |
| 5 | _ | Entry guide cover (REF: PL 12.10 |
| | | Item 3) (REP 12.15-110) |
| 6 | _ | Jam clearance guide (P/O PL 12.70 |
| | | Item 1) |
| 7 | 809E78390 | Latch |



PL 12.75 2K LCSS Electrical

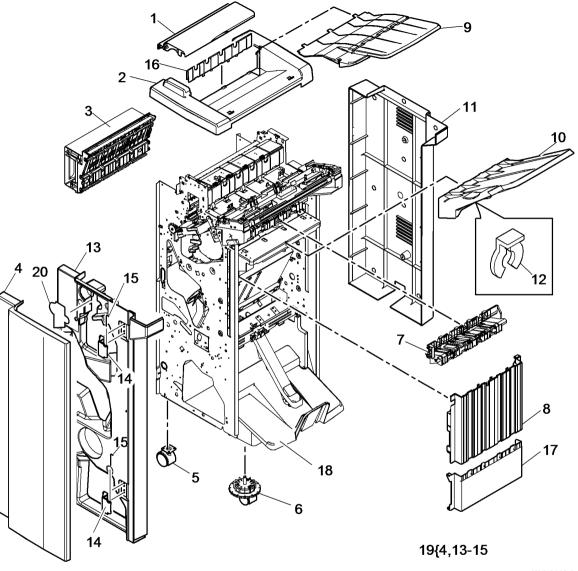
| Item | Part | Description |
|------|-----------|---|
| 1 | 960K88040 | LCSS PWB (REP 12.14-110) |
| 2 | 105K35842 | Power supply module |
| 3 | _ | Not used |
| 4 | 962K56952 | Cord bracket assembly |
| 5 | 110K13980 | Front door interlock switch (S12-303) |
| 6 | 110K13970 | Top cover interlock switch (S12-197) |
| 7 | - | LCSS communications harness (P/ O PL 12.75 Item 4) |
| 8 | - | LCSS power cord (P/O PL 12.75 Item 4) |



PL 12.320 LVF BM - Covers

| - | | 2 111 3 37313 |
|------|-----------|--|
| Item | Part | Description |
| 1 | 101E29920 | Exit cover |
| 2 | 848E97182 | Top cover (REP 12.1-150) |
| 3 | 848K83730 | Entry guide cover assembly (REP 12.15-150) |
| 4 | _ | Front door (P/O PL 12.320 Item 19) (REP 12.1-150) |
| 5 | 017K03750 | Fixed castor |
| 6 | 017K04520 | Adjustable castor |
| 7 | _ | Output cover (Not Spared) |
| 8 | _ | Right cover (Not Spared) |
| 9 | 050K75970 | Bin 0 |
| 10 | 050K75960 | Bin 1 (ADJ 12.1-150) |
| 11 | 848K98040 | Rear cover (REP 12.1-150) |
| 12 | 019K13380 | Bin 1 alignment clip |
| 13 | _ | Front cover assembly (P/O PL 12.320 Item 19) |
| 14 | _ | Hinge (P/O PL 12.320 Item 19) |
| 15 | _ | Hinge pin (P/O PL 12.320 Item 19) |
| 16 | 848E97200 | Top centre cover |
| 17 | _ | Lower right cover (REP 12.45-150) |
| 18 | _ | Bin 2 (Not Spared) |
| 19 | 948K08020 | Front door cover assembly (REP 12.1-150) |
| 20 | _ | Hole punch assembly cover (Not Spared) |

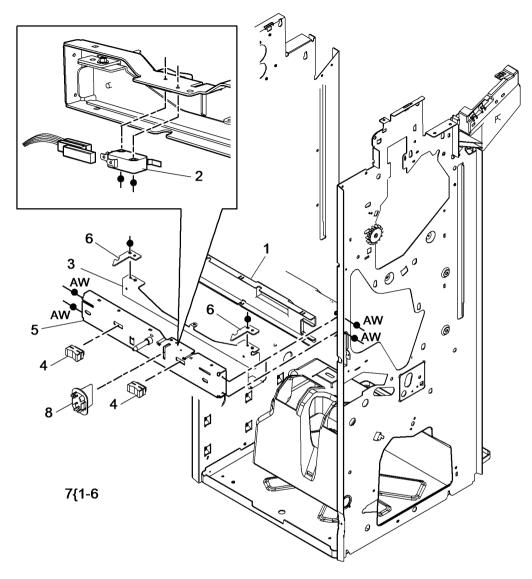
NOTE: Refer to ADJ 12.2-150 to align the LVF BM to the machine.



W-8-0146-A

PL 12.325 LVF BM Docking Latch

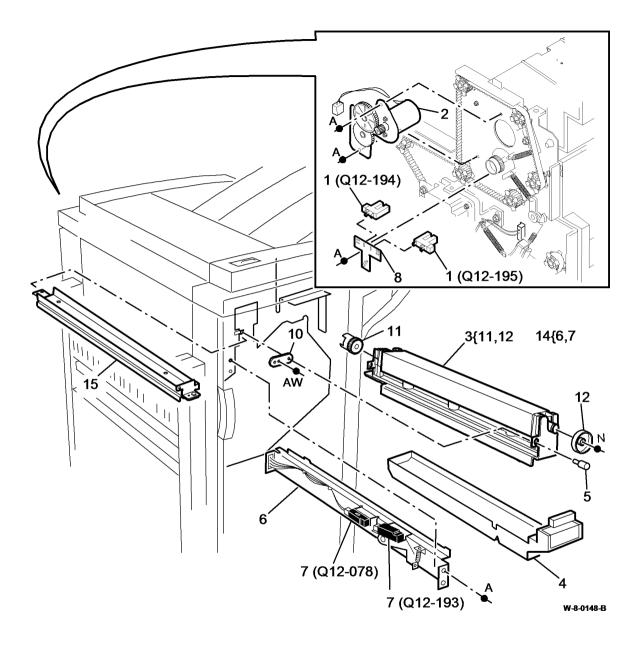
| Item | Part | Description |
|------|-----------|------------------------------------|
| 1 | _ | Docking latch cover (Not Spared) |
| 2 | 110K13980 | Docking interlock switch (S12-177) |
| 3 | _ | Link bracket assembly (P/O PL |
| | | 12.325 Item 7) |
| 4 | _ | Stopper (P/O PL 12.325 Item 7) |
| 5 | _ | Docking latch (P/O PL 12.325 Item |
| | | 7) |
| 6 | _ | Latch hook (P/O PL 12.325 Item 7) |
| 7 | 017K04761 | Docking latch assembly (REP |
| | | 12.16-150) |
| 8 | 120K03450 | Docking actuator |



W-8-0147-A

PL 12.330 LVF BM Hole Punch Unit

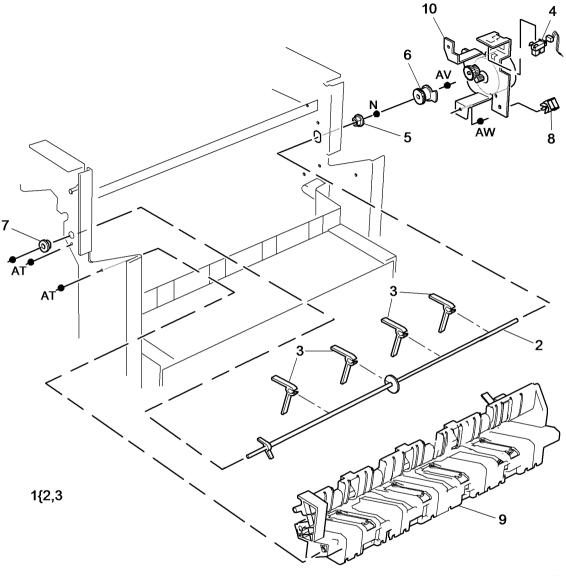
| | 12.330 EVI | DIVITIOLE FULLCH OTHE |
|------|------------|---|
| Item | Part | Description |
| 1 | 130E10360 | Punch head home sensor (Q12- 194), Punch head present sensor (Q12-195) (REP 12.7-150) |
| 2 | 127K55900 | Punch head motor assembly (MOT12-224) (REP 12.7-150) |
| 3 | _ | Hole punch unit (see below for variants) (REP 12.7-150) |
| _ | _ | 2 Hole (P/O PL 31.11 Item 2) (XE) |
| _ | _ | 2 Hole legal (P/O PL 31.11 Item 2) |
| - | - | 3 Hole (P/O PL 31.11 Item 2) (USSG/XCL) |
| - | _ | 4 Hole (Sweden) (P/O PL 31.11 Item 2) |
| - | _ | 4 Hole (P/O PL 31.11 Item 2) (XE) |
| 4 | 093E03821 | Chad bin |
| 5 | _ | Thumb screw (Not Spared) |
| 6 | _ | Bracket (P/O PL 12.330 Item 14) |
| 7 | 130E10380 | Punch sensor 1 (Q12-078), Chad bin level sensor (Q12-193) (REP 12.7-150) |
| 8 | _ | Sensor bracket (Not Spared) |
| 9 | _ | Not used |
| 10 | _ | Bracket (Not Spared) |
| 11 | - | Punch drive gear (P/O PL 12.330 Item 9) (W/TAG F-006) |
| 12 | - | Punch cam (P/O PL 12.330 Item 3) (W/O TAG F-014) |
| 13 | _ | Not used |
| 14 | - | Punch sensor assembly (Not Spared) (W/O TAG F-008) |
| 15 | 014K10610 | Hole punch guide assembly |



PL 12.335 LVF BM Paddle Shaft Assembly

| | • | |
|------|-----------|-----------------------------------|
| Item | Part | Description |
| 1 | _ | Paddle shaft assembly (REF: PL |
| | | 31.12 Item 2) (REP 12.12-150) |
| 2 | _ | Shaft (P/O PL 12.335 Item 1) |
| 3 | _ | Paddle (P/O PL 12.335 Item 1) |
| | | (See NOTE) |
| 4 | 130E10360 | Paddle roll home sensor (Q12-186) |
| 5 | 013E25790 | Nylon bearing |
| 6 | _ | Gear and flag assembly (Not |
| | | Spared) |
| 7 | _ | Bushing (Not Spared) |
| 8 | _ | Cable clamp (Not Spared) |
| 9 | _ | Output cover (REF: PL 12.320 Item |
| | | 7) |
| 10 | 127K62580 | Paddle roll motor assembly |
| | | (MOT12-238) (REP 12.12-150) |

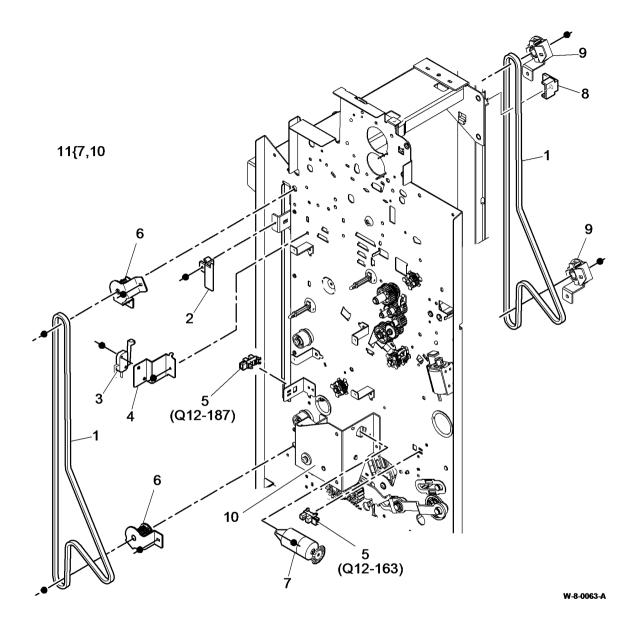
NOTE: Paddles are also supplied (4 off) as a kit PL 31.12 ltem 5.



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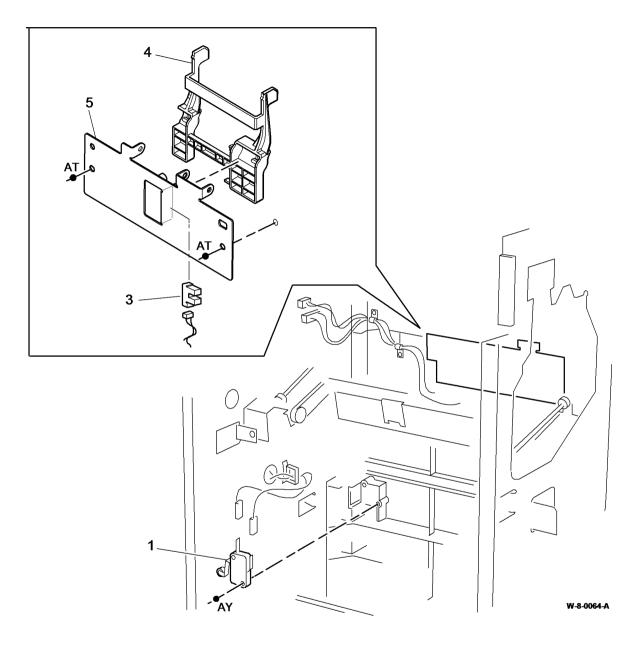
PL 12.340 LVF BM Bin 1 Control Components (1 of 2)

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| ared) (AD. |
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| ared) |
| (12-187)/ |
| nsor (Q12- |
|) (ADJ |
| OT12-241) |
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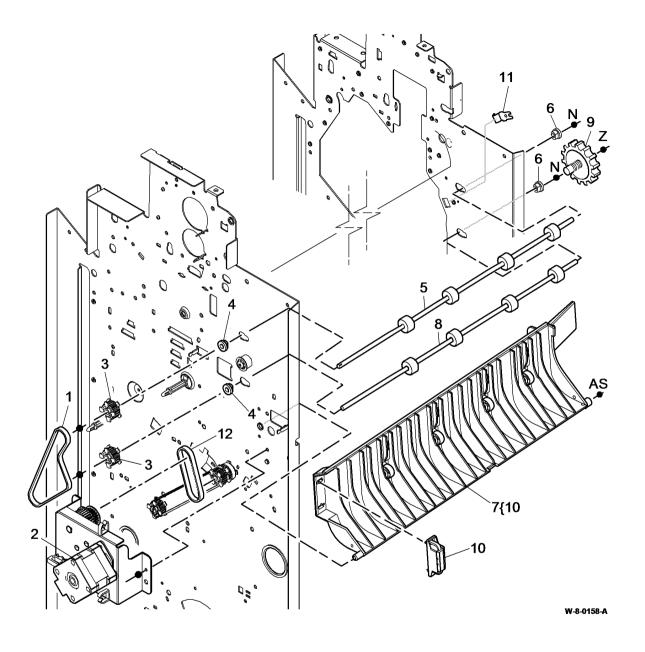
PL 12.345 LVF BM Bin 1 Control Components (2 of 2)

| Item | Part | Description |
|------|-----------|---|
| 1 | 110K13990 | Bin 1 lower limit switch (S12-191) (REP 12.45-150) |
| 2 | _ | Not used |
| 3 | 130E10360 | Bin 1 upper level sensor (Q12-188) (REP 12.11-150) |
| 4 | _ | Actuator (Not Spared) |
| 5 | - | Sensor support assembly (Not Spared) |



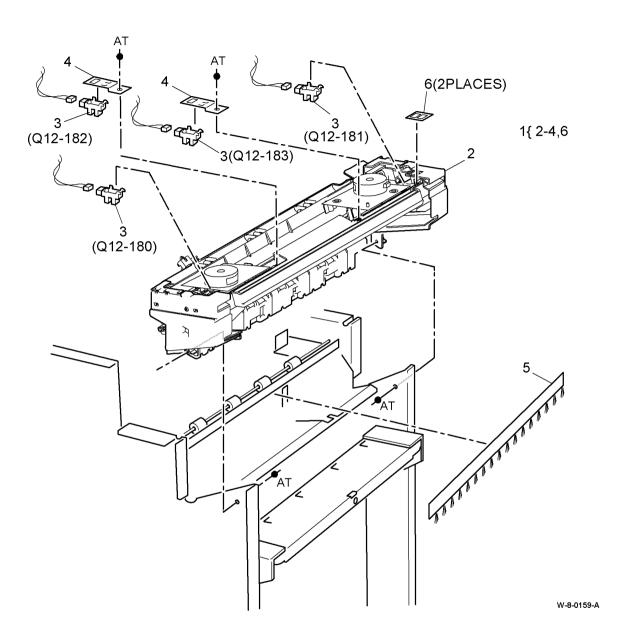
PL 12.350 LVF BM Paper Entry Transport

| Item | Part | Description | |
|------|-----------|---|--|
| 1 | 023E24340 | Input drive belt (REP 12.2-150) | |
| 2 | 927K01140 | Transport motor 1 and gearbox assembly (MOT12-223) (REP 12.2-150) | |
| 3 | _ | Pulley (Not Spared) | |
| 4 | 013E25790 | Nylon bearing | |
| 5 | _ | Upper feed roll assembly (Not Spared) | |
| 6 | 013E37460 | Bearing | |
| 7 | _ | Paper entry guide assembly (Not Spared) | |
| 8 | _ | Lower feed roll assembly (Not Spared) | |
| 9 | 006K32780 | Thumb wheel | |
| 10 | _ | Magnet (P/O PL 12.350 Item 7) | |
| 11 | _ | Latch (Not Spared) | |
| 12 | _ | Compiler entrance drive belt 1 (No Spared) (REP 12.34-150) | |



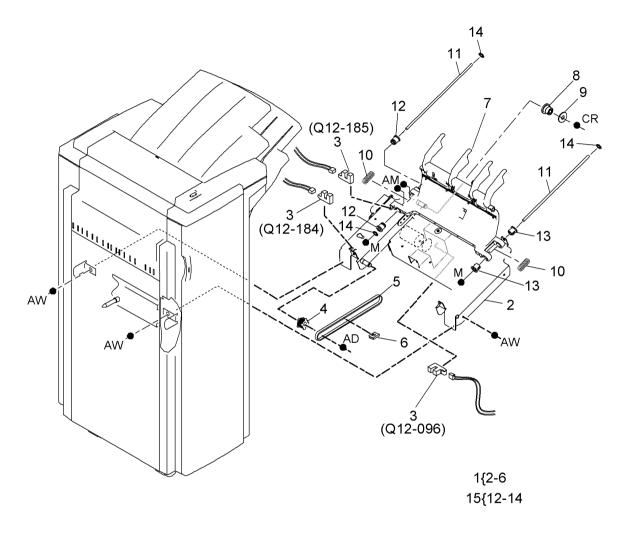
PL 12.355 LVF BM Tamper Assembly

| Item | Part | Description | |
|------|-----------|-----------------------------------|---|
| 1 | 049K12121 | Tamper assembly (REP 12.6-150) | |
| 2 | _ | Tamper unit (P/O PL 12.355 Item 1 |) |
| 3 | 130E10360 | Front tamper home sensor (Q12- | |
| | | 180), Front tamper away sensor | |
| | | (Q12-182), Rear tamper home | |
| | | sensor (Q12-181), Rear tamper | |
| | | away sensor (Q12-183) (REP | |
| | | 12.6-150) | |
| 4 | _ | Sensor bracket (P/O PL 12.355 | |
| | | Item 1) | |
| 5 | _ | Static eliminator (stacker) | |
| 6 | _ | Sensor retainer (Not Spared) | |
| | | | |



PL 12.360 LVF BM Ejector Assembly

| Item | Part | Description |
|------|-----------|--|
| 1 | 054K54273 | Ejector assembly (REP 12.10-150) |
| 2 | _ | Ejector base (P/O PL 12.360 Item 1) |
| 3 | 130E10360 | Ejector home sensor (Q12-184), Ejector out sensor (Q12-185), Ejector motor encoder sensor (Q12-096) (REP 12.10-150) |
| 4 | _ | Pulley (P/O PL 12.360 Item 1) |
| 5 | 023E24330 | Ejector belt (REP 12.17-150) |
| 6 | _ | Clip (P/O PL 12.360 Item 1) |
| 7 | 019K13390 | Support finger (REP 12.10-150) |
| 8 | 020K21490 | Pulley drive gear |
| 9 | _ | Washer (Not Spared) |
| 10 | _ | Spring (P/O PL 12.360 Item 1) |
| 11 | _ | Shaft (P/O PL 12.360 Item 1) |
| 12 | _ | Slide ejector bearing (P/O PL 12.360 Item 15) |
| 13 | - | Wide slide ejector bearing (P/O PL 12.360 Item 15) |
| 14 | _ | Cushion washer (P/O PL 12.360 Item 15) |
| 15 | 604K67690 | Bearing assembly kit |

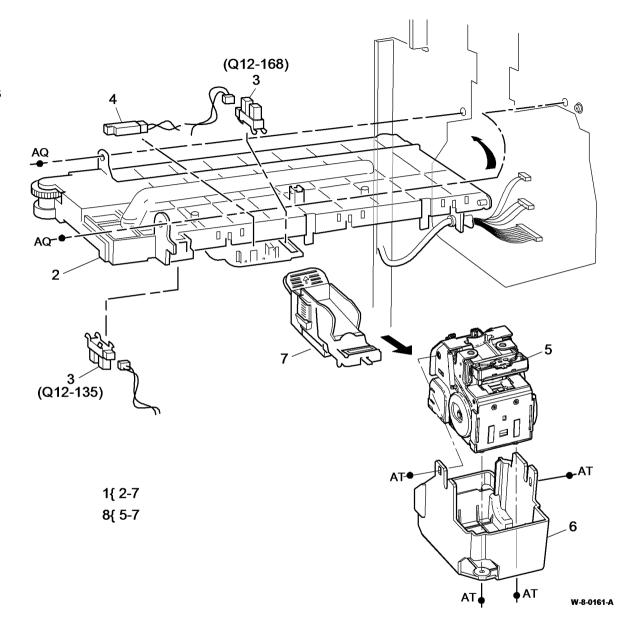


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PL 12.365 LVF BM Staple Head Unit/ Traverse Assembly

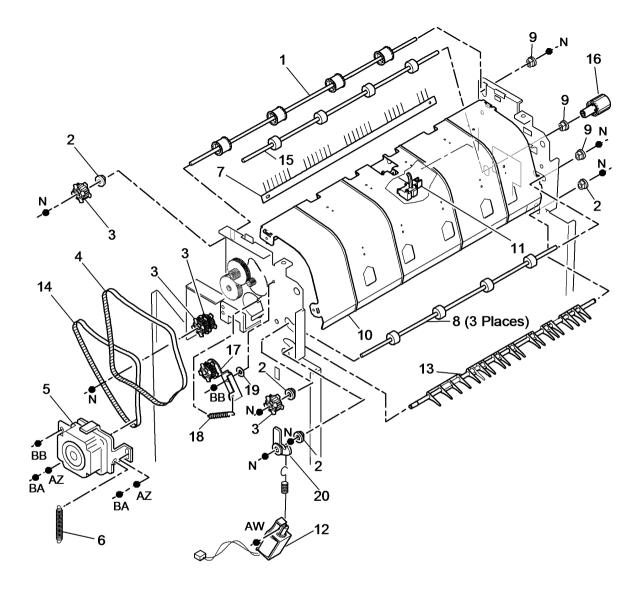
| | | _ |
|------|-----------|---|
| Item | Part | Description |
| 1 | 014K11543 | Stapler traverse assembly (REP 12.8-150) |
| 2 | - | Head traverse unit (P/O PL 12.365 Item 1) |
| 3 | 130E10360 | Staple home sensor (Q12-135), Stapler index sensor (Q12-168) (REP 12.8-150) |
| 4 | 130E10380 | SH1 Paper sensor (Q12-196) (REP 12.8-150) |
| 5 | 029K04691 | Staple head unit (REP 12.9-150) |
| 6 | - | Stapler cover (P/O PL 12.365 Item 1) |
| 7 | _ | Staple cartridge (REF: PL 26.10 Item 11) (See NOTE) |
| 8 | _ | Staple head assembly (P/O PL 12.365 Item 1) |

NOTE: To replace staples only, order PL 26.11 Item 4.



PL 12.370 LVF BM Bin 0 Entry

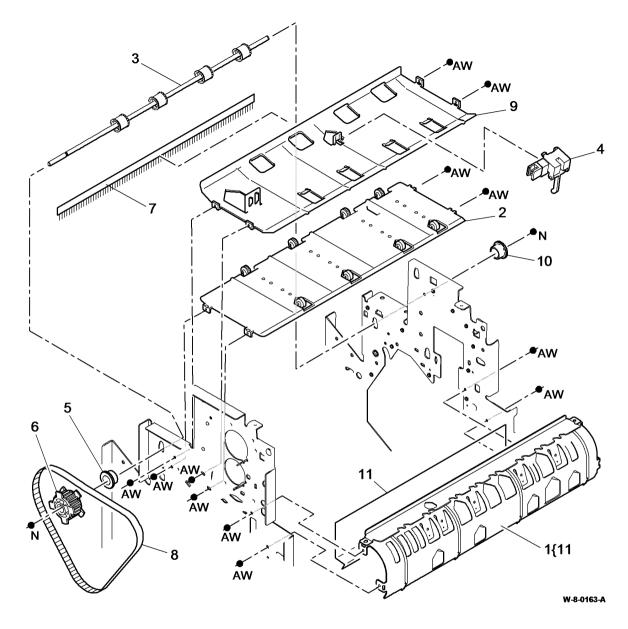
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| Item | Part | Description |
| 1 | 006K32810 | Top tray exit shaft |
| 2 | 013E25790 | Nylon bearing |
| 3 | _ | Pulley (Not Spared) |
| 4 | 023E24330 | Intermediate paper drive belt (REP 12.3-150) |
| 5 | 127K55870 | Transport motor 2 (MOT12-224) (REP 12.4-150, ADJ 12.4-150) |
| 6 | _ | Spring (Not Spared) |
| 7 | 115E13440 | Static eliminator |
| 8 | 006K32840 | Feed roll shaft (short) |
| 9 | 013E37460 | Bearing |
| 10 | _ | Paper guide (Not Spared) (REP 12.46-150) |
| 11 | 130E11440 | Top tray exit sensor (Q12-107) (REP 12.46-150) |
| 12 | 121K45010 | Exit diverter solenoid (SOL12-225) |
| 13 | _ | Exit diverter gate (Not Spared) |
| 14 | 023E24340 | Paper output drive belt (REP 12.4-150) |
| 15 | _ | Drive shaft assembly (Not Spared) |
| 16 | 006K33960 | Jam clearance knob |
| 17 | - | Belt tensioner (Not Spared) (ADJ 40.1) |
| 18 | _ | Spring (Not Spared) |
| 19 | _ | Washer (Not Spared) |
| 20 | _ | Actuator (Not Spared) |



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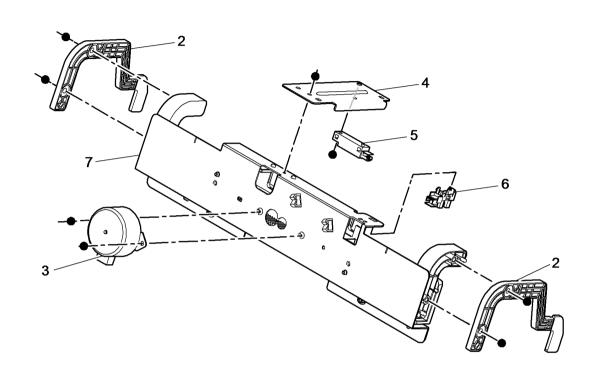
PL 12.375 LVF BM Bin 1 Entry

| | | _ |
|------|-----------|---|
| Item | Part | Description |
| 1 | 032K04610 | Left paper guide |
| 2 | _ | Lower right paper guide (REP |
| | | 12.47-150) |
| 3 | 006K32790 | Ejector drive shaft (REP 12.47-150) |
| 4 | 130E11440 | Compiler exit sensor (Q12-106) |
| 5 | 013E25790 | Nylon bearing |
| 6 | _ | Pulley (Not Spared) |
| 7 | 115E11810 | Static eliminator (stacker) |
| 8 | _ | Paper output drive belt (REF: PL |
| | | 12.370 Item 14) |
| 9 | - | Upper right paper guide (Not |
| | | Spared) (REP 12.47-150) |
| 10 | 013E37460 | Bearing |
| 11 | - | Mylar safety cover (P/O PL 12.375 Item 1) |
| | | |



PL 12.380 LVF BM Booklet Tamper Assembly

| Item | Part | Description |
|------|-----------|---|
| 1 | 090K02590 | Booklet tamper assembly (REP 12.38-150) |
| 2 | 031E16740 | Booklet tamper arm (REP 12.42-150) |
| 3 | 127E17690 | BM Booklet tamper 1 motor (MOT12-256) (REP 12.41-150) |
| 4 | _ | Sensor bracket (P/O PL 12.380 Item 1) |
| 5 | 130E10380 | BM paper present sensor (Q12-170) (REP 12.43-150) |
| 6 | 130E10360 | BM tamper 1 home sensor (Q12-205) (REP 12.40-150) |
| 7 | _ | Booklet tamper frame (P/O PL 12.380 Item 1) |

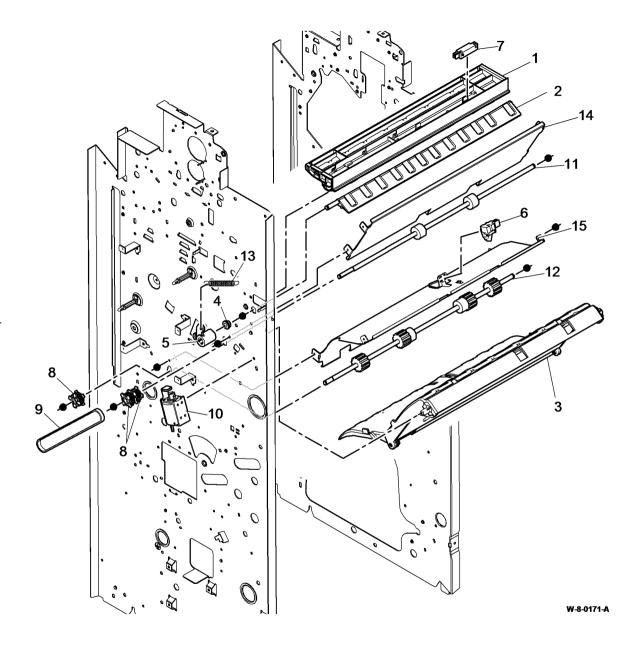


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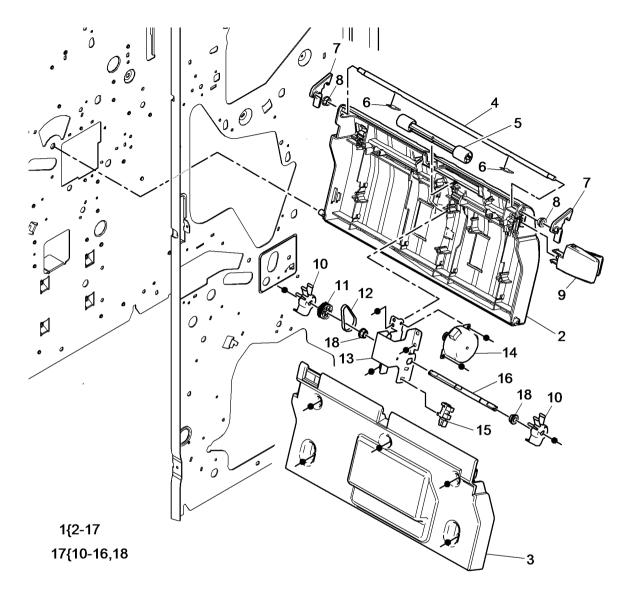
PL 12.385 LVF BM Compiler Entrance Guides

| Oulu | C 3 | |
|------|------------|---|
| Item | Part | Description |
| 1 | - | Upper entrance guide (Not Spared) (REP 12.31-150) |
| 2 | 050E29410 | Booklet diverter gate (REP 12.33-150) |
| 3 | 032K10350 | BM entrance guide assembly (REP 12.32-150) |
| 4 | _ | Bush (Not Spared) |
| 5 | _ | Lever (Not Spared) |
| 6 | 130E21610 | BM Entry sensor (Q12-089) (REP 12.32-150) |
| 7 | 130E10380 | Entry sensor (Q12-077) (REP 12.31-150) |
| 8 | _ | Pulley (Not Spared) |
| 9 | _ | Compiler entrance drive belt 2 (Not Spared) (REP 12.34-150) |
| 10 | 121K45010 | Booklet diverter gate solenoid (SOL12-258) |
| 11 | 059K84790 | 1st feed roll assembly (REP 12.34-150) |
| 12 | 059K84800 | 2nd feed roll assembly (REP 12.35-150) |
| 13 | _ | Spring (Not Spared) |
| 14 | _ | Upper guide (Not Spared) |
| 15 | - | Lower guide (Not Spared) (REP 12.32-150) |
| | | |



PL 12.390 LVF BM Compiler Guide Assembly

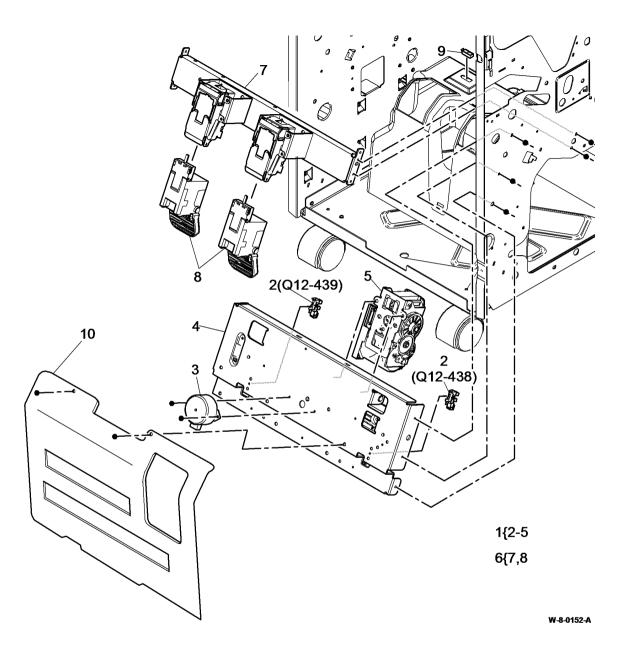
| | • | |
|------|-----------|--|
| Item | Part | Description |
| 1 | 055K45240 | BM compiler guide assembly (REP 12.30-150) |
| 2 | _ | Base (P/O PL 12.390 Item 1) |
| 3 | _ | Cover (P/O PL 12.390 Item 1) |
| 4 | _ | Shaft (P/O PL 12.390 Item 1) |
| 5 | _ | Idler roll assembly (P/O PL 12.390 Item 1) |
| 6 | _ | Static eliminator (P/O PL 12.390 Item 1) |
| 7 | _ | Latch (P/O PL 12.390 Item 1) |
| 8 | _ | Bearing (P/O PL 12.390 Item 1) |
| 9 | _ | Handle (P/O PL 12.390 Item 1) |
| 10 | 033K05270 | BM compiler flapper (REP 12.30- 150) |
| 11 | _ | Pulley (P/O PL 12.390 Item 1) |
| 12 | _ | Belt (P/O PL 12.390 Item 1) |
| 13 | _ | Bracket (P/O PL 12.390 Item 1) |
| 14 | _ | BM Flapper motor (MOT12-271) (P/O PL 12.390 Item 1) |
| 15 | 130E10360 | BM Flapper home sensor (Q12-207) |
| 16 | _ | Drive shaft (P/O PL 12.390 Item 1) |
| 17 | 055K44530 | BM Flapper motor assembly (REP 12.30-150) |
| 18 | - | Bearing (P/O PL 12.390 Item 17) |



W-8-0173-B

PL 12.395 LVF BM Booklet Stapler Assembly

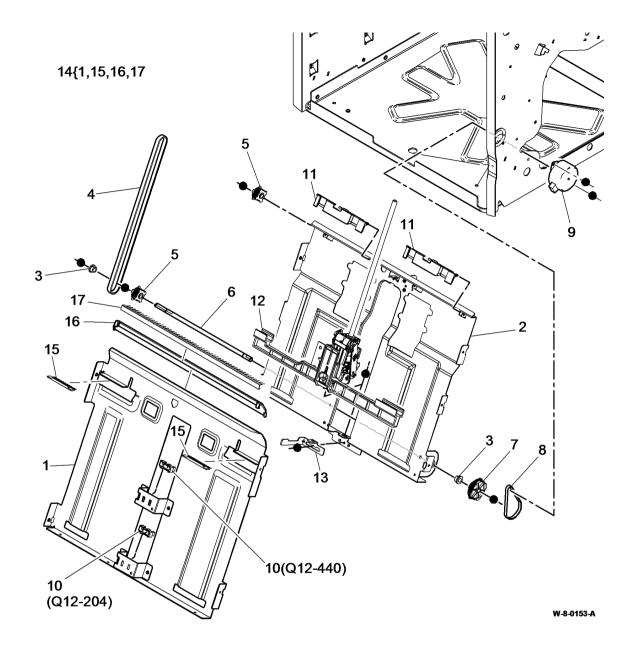
| Assembly | | |
|----------|-----------|--|
| Item | Part | Description |
| 1 | 029K04812 | BM stapler assembly (REP 12.38-150) |
| 2 | 130E10360 | Staple unit home sensor (Q12-438)/ Staple unit away sensor (Q12-439) (REP 12.48-150) |
| 3 | 127E17680 | BM staple unit move motor (MOT12-435) |
| 4 | _ | BM stapler frame (P/O PL 12.395 Item 1) |
| 5 | 077E00081 | BM staple head assembly (REP 12.48-150) |
| 6 | 029K04800 | BM staple cartridge assembly (REP 12.37-150) |
| 7 | _ | Bracket (P/O PL 12.395 Item 6) |
| 8 | _ | Staple cartridge (REF: PL 26.11 Item 2) |
| 9 | 107E35740 | Staple cartridge LED (REP 12.39-150) |
| 10 | 822E18810 | LVF BM Back stop cover (REP 12.1-150) |
| | | |



PL 12.400 LVF BM Back Stop Assembly

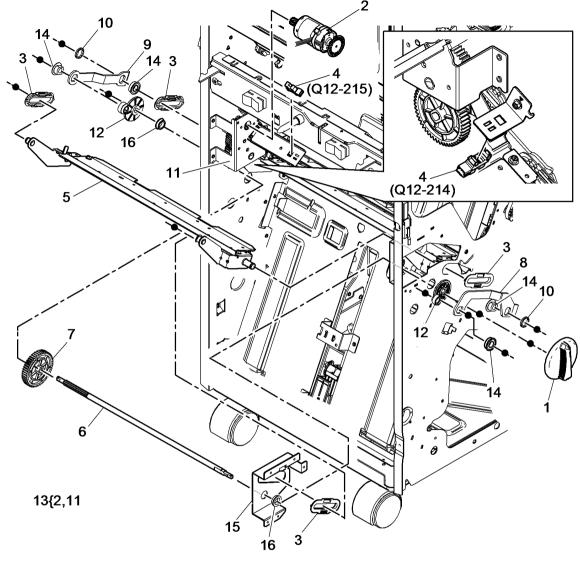
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|------------|-----------|--|
| Item | Part | Description |
| 1 | - | Left guide (P/O PL 12.400 Item 14) (REP 12.19-150) |
| 2 | _ | Right guide (Not Spared) (REP 12.19-150) |
| 3 | 016E21260 | Bearing |
| 4 | _ | Belt (Not Spared) |
| 5 | _ | Pulley (Not Spared) |
| 6 | _ | Shaft (Not Spared) |
| 7 | _ | Drive pulley (Not Spared) |
| 8 | _ | Drive Belt (Not Spared) |
| 9 | 127K74620 | BM Back stop motor (MOT12-255) (REP 12.18-150) |
| 10 | 130E10360 | BM guide home sensor (Q12-204)/ BM back stop mid home sensor (Q12-440) (REP 12.20-150) |
| 11 | _ | Stapler stop guide (Not Spared) |
| 12 | 674K08890 | Back stop assembly (REP 12.19-150) |
| 13 | _ | Bracket (Not Spared) |
| 14 | 674K09350 | Back stop left guide assembly (REP 12.19-150) |
| 15 | 115E13910 | Static eliminator (REP 12.19-150) |
| 16 | 822E33440 | Sub plate (See NOTE) |
| 17 | - | Static eliminator (P/O PL 12.400 Item 14) |

NOTE: Also part of PL 12.400 Item 14.



PL 12.405 LVF BM Crease Blade Assembly

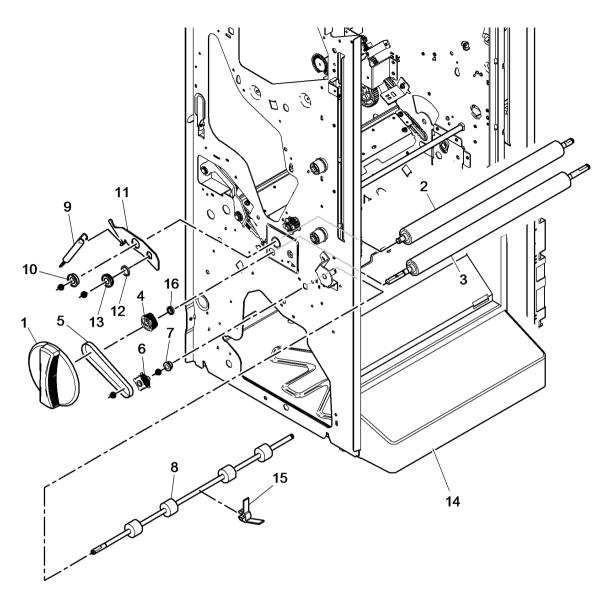
| | , | |
|------|-----------|---|
| Item | Part | Description |
| 1 | 803E20900 | Crease blade handle (REP 12.23-150) |
| 2 | 127E17650 | BM Crease blade motor (MOT12- 252) (REP 12.21-150) |
| 3 | 011E30810 | Crease blade guide (REP 12.22-150) |
| 4 | 130E10360 | BM Crease blade home sensor (Q12-214)/BM Crease blade motor encoder sensor (Q12-215) (REP 12.21-150) |
| 5 | 037K01490 | Crease blade assembly (REP 12.22-150) |
| 6 | _ | Crease blade shaft (Not Spared) |
| 7 | 807E46760 | Crease blade drive gear (REP 12.23-150) |
| 8 | _ | Front blade arm (Not Spared) |
| 9 | _ | Rear blade arm (Not Spared) |
| 10 | _ | Spacer (Not Spared) |
| 11 | - | Crease blade gearbox assembly (P/O PL 12.405 Item 13) (REP 12.21-150) |
| 12 | 008E08860 | Blade crank (REP 12.23-150) |
| 13 | 007K20511 | Crease blade motor assembly (REP 12.21-150) |
| 14 | 016E21260 | Crease blade bearing (REP 12.23-150) |
| 15 | - | Bracket (Not Spared) |
| 16 | 013E43930 | Crease blade shaft bearing |



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PL 12.410 LVF BM Crease Roll Assembly (1 of 3)

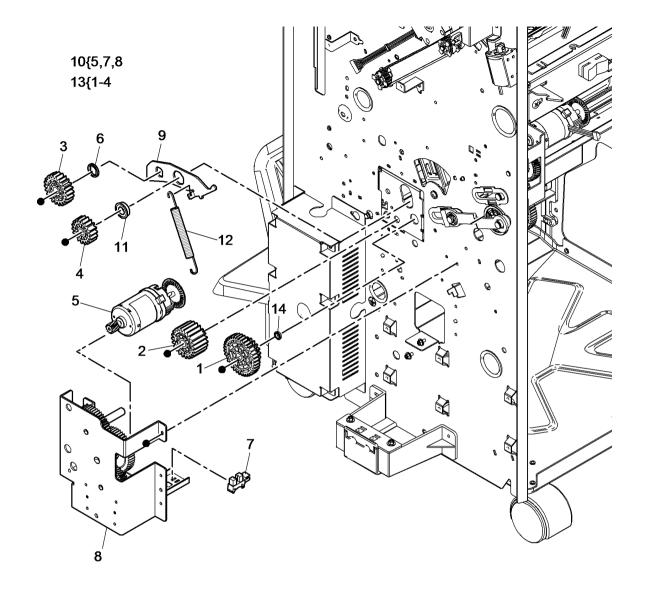
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|----------------------|--|--|
| Part | Description | |
| 803E20910 | Crease roll handle (REP 12.24- 150) | |
| 059E11860 | Upper crease roll (REP 12.24-150) | |
| 059E11870 | Lower crease roll (REP 12.24-150) | |
| 020E55510 | Crease roll handle pulley (REP 12.24-150) | |
| 023E32470 | Exit roll belt (REP 12.27-150) | |
| 020E55520 | Exit roll pulley (REP 12.27-150) | |
| 016E21260 | Bush (REP 12.27-150) | |
| 059K84780 | BM exit roll assembly (REP 12.27-150) | |
| 899E07760 | Crease roll spring (x2) (REP 12.24-150) | |
| 013E43940 | Crease roll bearing (REP 12.24-150) | |
| 031E16710 | Front crease roll lever (REP 12.24-150) | |
| _ | Spacer (Not Spared) | |
| - | Bearing (Not Spared) | |
| _ | Bin 2 support (Not Spared) (REP 12.44-150) | |
| _ | Exit roll paddle (Not Spared) (REP 12.27-150) | |
| 013E43930 | Lower crease roll bearing | |
| | Part 803E20910 059E11860 059E11870 020E55510 023E32470 020E55520 016E21260 059K84780 899E07760 013E43940 031E16710 | |



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PL 12.415 LVF BM Crease Roll Assembly (2 of 3)

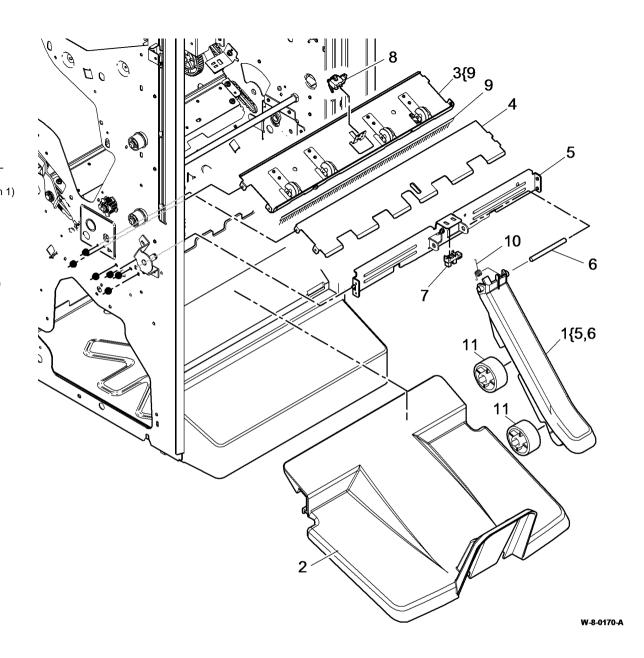
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|------|-----------|-------------------------------------|
| Item | Part | Description |
| 1 | _ | Crease roll gear 1 (P/O PL 12.415 |
| | | Item 13) (REP 12.26-150) |
| 2 | _ | Crease roll gear 2 (P/O PL 12.415 |
| | | Item 13) (REP 12.26-150) |
| 3 | _ | Crease roll gear 3 (P/O PL 12.415 |
| | | Item 13) (REP 12.26-150) |
| 4 | _ | Crease roll gear 4 (P/O PL 12.415 |
| | | Item 13) (REP 12.26-150) |
| 5 | _ | BM Crease roll motor (MOT12-253) |
| | | (P/O PL 12.415 Item 10) (REP |
| | | 12.25-150) |
| 6 | _ | Spacer (Not Spared) |
| 7 | 130E10360 | BM crease roll motor encoder |
| | | sensor (Q12-216) (REP 12.25- |
| | | 150) |
| 8 | _ | Crease roll gearbox assembly (P/O |
| | | PL 12.415 Item 10) |
| 9 | 031E16720 | Rear crease roll lever (REP 12.24- |
| | | 150) |
| 10 | 007K20520 | Crease roll motor and gearbox |
| | | assembly (REP 12.25-150) |
| 11 | 013E43940 | Crease roll bearing (REP 12.24- |
| | | 150) |
| 12 | 899E07760 | Crease roll spring (x2) (REP 12.24- |
| | | 150) |
| 13 | 807E46770 | Crease roll gear kit (REP 12.26- |
| | | 150) |
| 14 | 013E43930 | Lower crease roll bearing |



W-8-0169-A

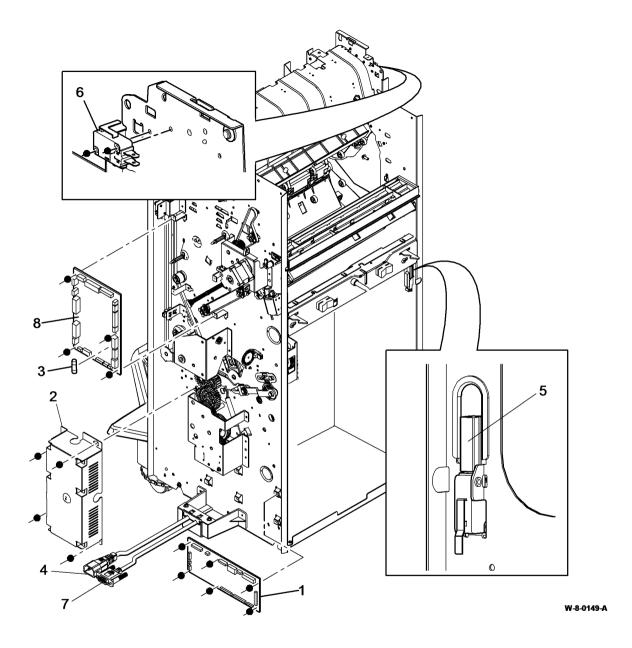
PL 12.420 LVF BM Crease Roll Assembly (3 of 3)

| | <i>y</i> (| , |
|------|------------|--|
| Item | Part | Description |
| 1 | 031K09230 | Bail arm assembly (REP 12.29-150) |
| 2 | 050E29400 | Bin 2 |
| 3 | 032K10330 | Exit upper guide assembly (REP 12.28-150) |
| 4 | _ | Exit lower guide (Not Spared) |
| 5 | _ | Bail arm support bracket (P/O PL 12.420 Item 1) |
| 6 | _ | Bail arm pin (P/O PL 12.420 Item |
| 7 | 130E10360 | Bin 2 90% full sensor (Q12-206) (REP 12.29-150) |
| 8 | 868E93710 | BM exit sensor (Q12-213) (REP 12.28-150) |
| 9 | _ | Static eliminator (P/O PL 12.420 Item 3) |
| 10 | 899E07770 | Bail arm spring (REP 12.29-150) |
| 11 | 059E11880 | Bail arm roller (x2) (REP 12.29-150) |



PL 12.425 LVF BM Electrical

| Item | Part | Description |
|------|-----------|---------------------------------------|
| 1 | 960K83180 | LVF BM PWB (REP 12.36-150) |
| 2 | 105E24900 | Power supply module |
| 3 | _ | Fuse (Not Spared) |
| 4 | _ | Power cable (Not Spared) |
| 5 | 110K13980 | Front door interlock switch (S12-303) |
| 6 | 110K13970 | Top cover interlock switch (S12-197) |
| 7 | - | Communications cable (Not Spared) |
| 8 | 960K83170 | LVF PWB (REP 12.14-150) |



PL 17.00 Secure Access Additions

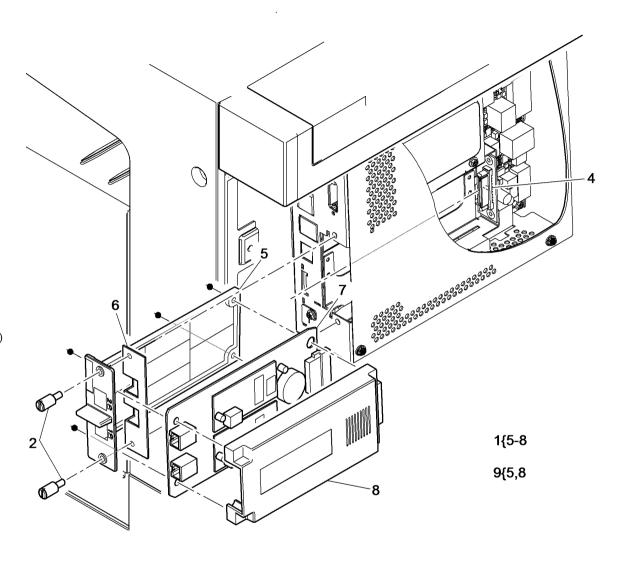
| Item | Part | Description |
|------|------|----------------------------------|
| 1 | - | Secure access controller (Not |
| | | Spared) |
| 2 | _ | Xerox secure access power supply |
| | | (Not Spared) |
| 3 | _ | Xerox secure access card reader |
| | | (HID) (Not Spared) |
| 4 | _ | Xerox secure access card reader |
| | | (MAGSTRIPE) (Not Spared) |
| 5 | _ | Xerox secure access card reader |
| | | (MIFARE) (Not Spared) |
| 6 | _ | Xerox secure access card reader |
| | | (LEGIC) (Not Spared) |
| 7 | _ | Xerox secure access power cord |
| | | (NA) (Not Spared) |
| 8 | _ | Xerox secure access power cord |
| | | (EU) (Not Spared) |
| 9 | _ | Xerox secure access power cord |
| | | (UK) (Not Spared) |

NO EXPLODED VIEW PROVIDED

W-8-0118-A

PL 20.05 Fax Module

| PL 20 | 0.05 Fax N | lodule |
|--------|------------|------------------------------------|
| Item | Part | Description |
| 1 | _ | Fax module |
| _ | _ | 1 line (P/O PL 31.35 Item 1) |
| _ | _ | 2 line (P/O PL 31.40 Item 1) |
| 2 | _ | Thumbscrew (Not Spared) |
| 3 | _ | Telephone cable - see variants |
| | | below (not shown on illustration) |
| _ | _ | USSG/XCL / |
| _ | _ | United Kingdom |
| _ | _ | Germany |
| _ | _ | Italy |
| _ | _ | Netherlands |
| _ | _ | Belgium |
| - | _ | Switzerland |
| _ | _ | Denmark |
| _ | _ | Austria |
| _ _ | _ | Sweden |
| _ | _ | France |
| _ | _ | Norway |
| _ | _ | Portugal/Spain |
| _ | _ | Finland |
| 4 | 960K73340 | Fax connector PWB |
| 5 | _ | Front cover (P/O PL 20.05 Item 9) |
| | | (REP 20.1) |
| 6 | _ | Ground plate (P/O PL 20.05 Item 1) |
| 7 | _ | Fax PWB (see below for variants) |
| _ | _ | 1 line (Not Spared) (W/O TAG X- |
| | | 001) (REP 20.1) |
| - | _ | 2 line (Not Spared) (W/O TAG X- |
| | | 001) (REP 20.1) |
| _ | _ | 1 line (P/O PL 31.35 ltem 2) (W/ |
| | | TAG X-001) (REP 20.1) |
| _ | _ | 2 line (P/O PL 31.40 ltem 2) (W/ |
| | | TAG X-001) (REP 20.1) |
| _ | _ | 1 line fax34 (P/O PL 31.35 Item 2) |
| | | (W/TAG X-002) (REP 20.1) |
| _ | _ | 2 line fax34 (P/O PL 31.40 Item 2) |
| | | (W/TAG X-002) (REP 20.1) |
| 8 | _ | Rear cover (P/O PL 20.05 Item 9) |
| | | (REP 20.1) |
| 9 | 848E74310 | Covers assembly |
| | | |



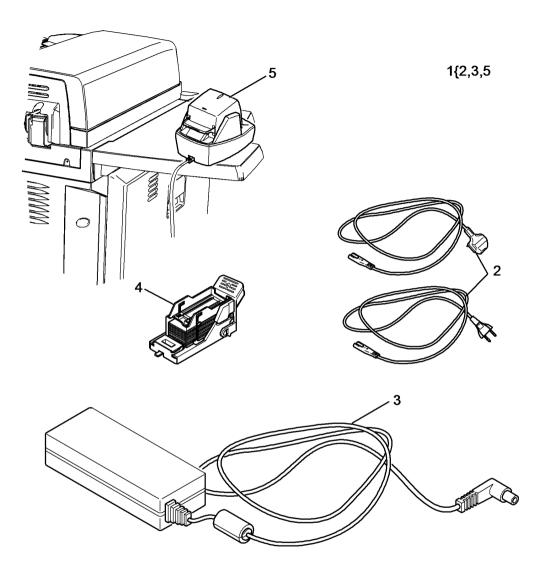
W-8-0119-A

PL 25.10 Convenience Stapler

| 140.00 | Dowt | Decariation |
|--------|------|-----------------------------------|
| ltem | Part | Description |
| 1 | _ | Convenience stapler kit (REF: PL |
| | | 31.11 Item 5) (See NOTE) |
| 2 | _ | Power cord (P/O PL 25.10 Item 1) |
| 3 | _ | PSU (P/O PL 25.10 Item 1) |
| 4 | _ | Staple cartridge (REF: PL 26.10 |
| | | Item 11) (See NOTE 2) |
| 5 | _ | Convenience stapler (P/O PL 25.10 |
| | | Item 1) (XE) |
| - | - | Convenience stapler (USSG/XCL) |
| | | (P/O PL 25.10 Item 1) |
| | | |

NOTE: 1. The convenience stapler has no serviceable parts.

NOTE: 2. To replace staples only, order PL 26.11 Item 4.



W-8-0120-A

PL 26.10 Consumables and Tools (1 of 2)

| , | | |
|------|-----------|--------------------------------------|
| Item | Part | Description |
| 1 | 043P00065 | Abrasive cloth |
| 2 | 043P00048 | Formula A cleaning fluid |
| | | (WARNING) |
| 3 | 600T02133 | Line test tool |
| 4 | 043P00045 | Film remover (WARNING) |
| 5 | 600T02231 | USB Cable |
| 6 | 600T02252 | Ethernet crossover cable |
| 7 | 600T02261 | Finisher bypass connector |
| 8 | 043E00550 | Plastislip grease |
| 9 | 043P00081 | Lens and mirrors cleaner |
| 10 | 099P03037 | Disposable gloves (general |
| | | protection) (Qty. 100) (WARNING) |
| 11 | 008R12964 | Staple cartridge (1 cartridge x 5000 |
| | | staples) |
| 12 | _ | Molykote silicone dry lubricant |
| 13 | 035E56460 | Wiper |
| 14 | 082E02000 | Test pattern (A3/11x17) |
| 15 | 082E02010 | Test pattern (A4) |
| 16 | 082E02020 | Test pattern (8.5x11) |
| 17 | 082E08230 | Test pattern (solid area density |
| | | scale) |
| 18 | 082P00448 | Test pattern (visual scale) |
| 19 | _ | Antistatic fluid |
| 20 | 070P00043 | Molub grease 777 |
| 21 | 146E02700 | USB Reader (HITAG) |
| 22 | 008R90176 | Cleaning fluid (WARNING) |
| 23 | _ | Moovit oil |
| 24 | 600T02332 | Data cable |
| | | |



WARNING

Wear protective gloves, PL 26.10 Item 10 and eye protection when using solvents and cleaning agents.

NO EXPLODED VIEW PROVIDED

W-8-0121-A

PL 26.11 Consumables and Tools (2 of

2)

| Item | Part | Description |
|------|-----------|---|
| 1 | 600T91940 | Air duster |
| 2 | _ | Staple cartridge (LVF BM) |
| - | 029K04820 | 1 cartridge (2000 staples) |
| - | 108R01158 | 4 cartridges (4 x 2000 staples) |
| 3 | 006R01604 | Toner cartridge (x2) pack (WW |
| | | Metered) |
| _ | 006R01605 | Toner cartridge (x2) (USSG/XCL/ |
| | | XE) SOLD |
| _ | 006R01606 | Toner cartridge (x2) DMO SOLD |
| 4 | 008R12941 | Staple cartridge refill (staples only - |
| | | 3 x 5000) |
| 5 | _ | Handset tool (Not Spared) |
| 6 | 070E01480 | Hi-Lube grease (ADJ 40.1) |
| 7 | 600T02470 | LVPS Module test tool |

NO EXPLODED VIEW PROVIDED

February 2016

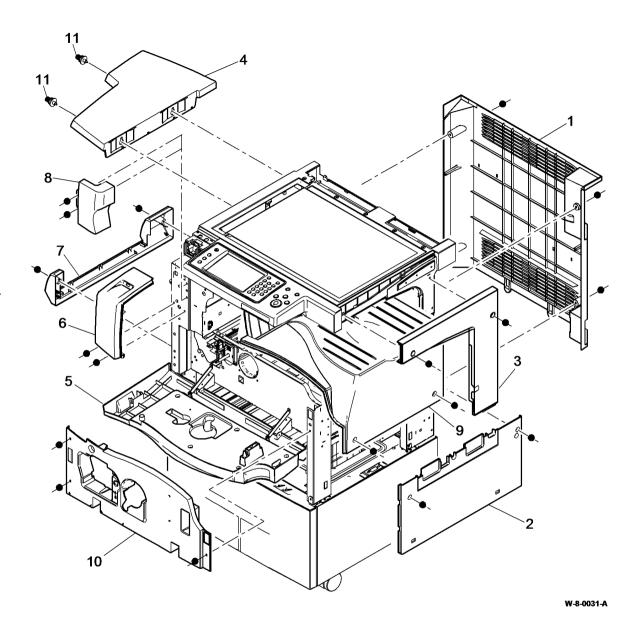
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W-8-0122-A

PL 28.10 Main Covers

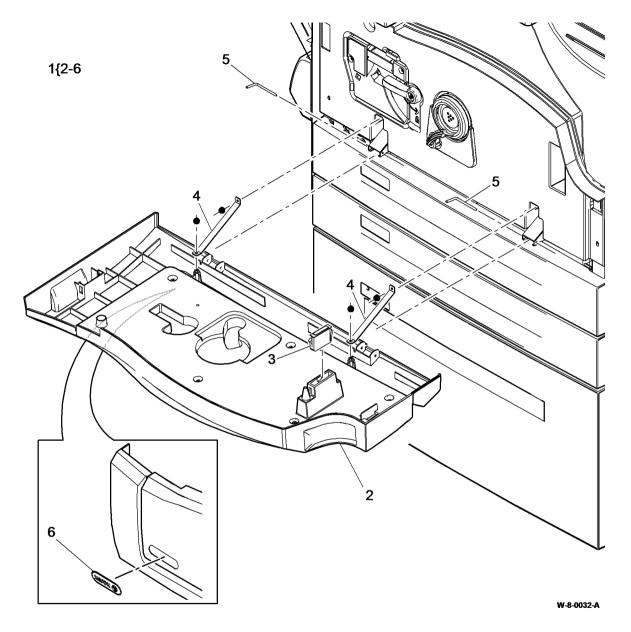
| Item | Part | Description |
|------|-----------|--|
| 1 | 948K09122 | Rear cover (REP 28.2) |
| 2 | _ | Right cover (Not Spared) |
| 3 | - | Upper right cover (Not Spared) (REP 28.1) |
| 4 | 497K13840 | Work shelf |
| 5 | _ | Front door assembly (REF: PL 28.11) |
| 6 | 848E97367 | Left frame cover (REP 28.1) |
| _ | 822E33500 | Left frame cover (RFID) |
| 7 | - | Bypass tray feedhead cover (P/O PL 70.35 Item 1) |
| 8 | _ | Centre exit cover (Not Spared) (REP 28.1) |
| 9 | 848E97385 | Centre output tray (REP 28.1) |
| _ | - | Centre output tray (W/TAG 014) (P/O PL 31.11 Item 9) |
| 10 | _ | Inner front cover (Not Spared) |
| 11 | _ | Thumbscrew (P/O PL 28.10 Item 4) |

NOTE: Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.



PL 28.11 Front Door Assembly

| Item | Part | Description |
|------|-----------|---|
| 1 | 848K94709 | Front door assembly |
| 2 | _ | Front cover assembly (P/O PL |
| | | 28.11 Item 1) |
| 3 | 121E25720 | Magnet |
| 4 | _ | Front door strap (P/O PL 28.11 Item |
| 5 | _ | 1) Door hinge pin (P/O PL 28.11 Item |
| - | | 1) |
| 6 | _ | Logo badge (P/O PL 28.11 Item 1) |



PL 28.15 Covers

| Item | Part | Description |
|------|------|--------------------------------|
| 1 | _ | SPDH covers (REF: PL 5.10) |
| 2 | _ | Tray 3 and 4 assembly covers |
| | | (REF: PL 70.26) |
| 3 | _ | Main covers (REF: PL 28.10) |
| 4 | _ | 2K LCSS covers (REF: PL 12.10) |
| 5 | _ | Scanner covers (REF: PL 60.15) |
| 6 | _ | LVF BM covers (REF: PL 12.320) |

NO EXPLODED VIEW PROVIDED

W-8-0123-A

PL 31.11 Maintenance/Installation/ Removal Kits (1 of 3)

| | · · · · · · · · · · · · · · · · · · · | , |
|------|---------------------------------------|---|
| Item | Part | Description |
| 1 | _ | Fax adapter kit (see below for |
| | | variants) (Not Spared) |
| _ | _ | UK, Ireland, Spain, Portugal, |
| | | Greece |
| - | _ | France, Netherlands, Belgium |
| _ | _ | Germany, Austria, Italy, Switzerland |
| - | _ | Sweden, Norway, Finland, |
| | | Denmark |
| 2 | _ | Hole punch kit (see below for |
| | | variants) |
| _ | 498K14050 | 2 hole punch kit (XE) |
| - | 498K14080 | 2 hole punch kit (legal) (USSG/ |
| | | XCL) |
| - | 498K14070 | 4 hole punch kit (XE) |
| - | 498K14090 | 4 hole punch kit (Sweden) |
| _ | 497K14960 | 3 hole punch kit |
| 3 | 604K48150 | Bin 1 tray kit (improved stacking) |
| 4 | 497K13850 | Paper tray security kit |
| 5 | 498K08260 | Convenience stapler kit (XE) |
| - | 498K08250 | Convenience stapler kit (USSG/ |
| | | XCL) |
| 6 | 007K20550 | Scanner drive kit |
| 7 | 059K85120 | SPDH feed roll kit |
| 8 | 604K83690 | HCF transport roll kit |
| 9 | _ | Centre output tray kit (W/TAG 014) (NOTE 2) |

NOTE: 1. Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.

NOTE: 2. Part number was not available at time of publication.

NO EXPLODED VIEW PROVIDED

W-8-0124-A

PL 31.12 Maintenance/Installation/ Removal Kits (2 of 3)

| | • | , |
|------|-----------|---------------------------------------|
| Item | Part | Description |
| 1 | _ | BM back stop repair kit (Not |
| | | Spared) |
| 2 | 604K73060 | Paddle shaft assembly |
| 3 | 607K03210 | SPDH last sheet out sensor filter kit |
| | | (W/TAG D-002) |
| 4 | _ | 2K LCSS front door cover assembly |
| | | kit |
| 5 | 604K73050 | Paddle spares kit |
| 6 | 607K04330 | Feed head assembly spares kit (W/ |
| | | TAG 003, TAG 004) |
| 7 | 650K34150 | Overlay label kit (French/Canadian) |
| _ | 650K34310 | Overlay label kit (USSG/XCL) |
| _ | 650K34300 | Overlay label kit (XE) |
| 8 | 604K96681 | Tray 4 transport shaft kit |
| 9 | 497K14681 | Envelope tray kit |
| 10 | 497K11500 | Wireless network adapter kit |
| 11 | 497K14650 | Foreign device interface kit |
| 12 | _ | Hole punch field repair kit (Not |
| | | Spared) (W/TAG F-006) |
| 13 | 498K17546 | CAC enablement kit |
| 14 | 604K83720 | LCSS diverter gate assembly |
| | | spares kit |
| 15 | 604K83641 | Feed/Nudger/Retard roll spares kit |
| 16 | 604K84020 | Stack height sensor and shim kit |
| | | |

NOTE: Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.

NO EXPLODED VIEW PROVIDED

W-8-0126-A

PL 31.14 Maintenance/Installation/ Removal Kits (3 of 3)

| ltem | Part | Description |
|---------|-----------|--|
| 1 | _ | Initialisation kits (see below for variants) |
| _ | | 45 ppm (Page pack enabled) (XE) (Not Spared) |
| - | - | 55ppm (Page pack enabled) (XE) (Not Spared) |
| - | _ | 45 ppm (Speed only SIM) (XE) (Not Spared) |
| - | - | 55 ppm (Speed only SIM) (XE) (Not Spared) |
| - | _ | 45 ppm (Speed only SIM) (USSG/ XCL) (Not Spared) |
| _ | _ | 55 ppm (Speed only SIM) (USSG/ XCL) (Not Spared) |
| - | - | 45 ppm (BIM - Speed only SIM) (USSG/XCL) (Not Spared) |
| - | - | 55 ppm (BIM - Speed only SIM) (USSG/XCL) (Not Spared) |
| - | - | 45 ppm (BIM - Page pack enabled) (XE) (Not Spared) |
| - | - | 55 ppm (BIM - Page pack enabled) (XE) (Not Spared) |
| 2 | _ | SIM kits (see below for variants) |
| _ | 604K96570 | 45 ppm (Page pack enabled) (XE) |
| _ | 604K96580 | 55 ppm (Page pack enabled) (XE) |
| _ | 607K09640 | Billing impression mode (45 ppm) |
| _ | 607K09650 | Billing impression mode (55 ppm) |
| 3 | 607K04371 | Left door repair kit |
| 4 | 604K84190 | FAR HCF bowl curl kit |
| 5 | 497K13822 | Horizontal transport kit |
| 6 | 604K97710 | Tray 3 front cover kit |
| 7 | 600T02458 | Left door damper spring tool kit |
| - | | (See NOTE 2) |
| 8 9 | 604K97721 | Tray 4 front cover kit |
| 9 10 | 497K11350 | Power cord kit (USSG/XCL) |
| | 607K03160 | Doc present sensor actuator kit (W/ TAG D-001) |
| 11 | 604K96640 | SPDH upper tray spares kit (W/TAG D-002) |
| 12 | 607K04310 | Last sheet out sensor spares kit (W/TAG D-002) |
| 13 | 607K08290 | Horizontal transport motor grounding kit (W/TAG 005) |
| 14 | 607K09420 | SPDH Mylar kit (W/TAG 004) |
| 15 | 607K09430 | Separation assembly kit (W/TAG 004) |
| 16 | 497K16170 | RFID Card reader kit |
| | | |

NOTE: 1.Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.

NOTE: 2.Refer to GP 37 for correct use of these tools when removing left door assembly.

NO EXPLODED VIEW PROVIDED

W-8-0128-B

PL 31.35 Line 1 Fax Kits

| | .oo Line i | I UX INIO |
|------|------------|--|
| Item | Part | Description |
| 1 | _ | Line 1 Fax kits (see below for |
| | | variants) (See NOTE 1) |
| _ | 497K06250 | XE and South Africa |
| - | 497K06230 | USSG/XCL |
| - | 497K06060 | United Kingdom, Spain, Greece, Ireland, Portugal |
| | 497K06090 | , 3 |
| _ | 497K11280 | Austria, Germany, Switzerland, Italy Brazil |
| _ | | =· |
| _ | 497K06070 | Netherlands, Belgium, France |
| _ | 497K06080 | Sweden, Norway, Finland, Denmark |
| _ | 497K16410 | CFax (XE) |
| - | 497K16430 | CFax (USSG/XCL) |
| _ | 497K16470 | CFax34 (United Kingdom, Spain, |
| | | Greece, Ireland, Portugal) |
| _ | 497K16480 | CFax34 (Netherlands, Belgium, France) |
| _ | 497K16490 | CFax34 (Austria, Germany, |
| | | Switzerland, Italy) |
| _ | 497K16500 | CFax34 (Sweden, Norway, Finland, Denmark) |
| - | 497K16550 | CFax34 (Brazil) |
| 2 | - | Line 1 Fax PWB kits (see below for |
| | | variants) |
| - | 607K08120 | CFax (See NOTE 2) (W/TAG X-001) |
| - | 607K09570 | CFax34 (See NOTE 2) (W/TAG X-002) |

NOTE: 1. Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.

NOTE: 2. Ensure the system software of the machine is at version 073.xxx.xxx.xxx before installing this fax kit.

NO EXPLODED VIEW PROVIDED

W-8-0133-B

PL 31.40 Line 2 Fax Kits

| LLJ | 1.40 LINE | LI ax Mis |
|------|-----------|--|
| Item | Part | Description |
| 1 | _ | Line 2 Fax kits (see below for |
| | | variants) (See NOTE) |
| - | 497K06260 | XE and South Africa |
| _ | 497K06240 | USSG/XCL |
| - | 497K06100 | United Kingdom, Spain, Greece, Ireland, Portugal |
| _ | 497K06130 | Austria, Germany, Switzerland, Italy |
| _ | 497K06110 | Netherlands, Belgium, France |
| _ | 497K06120 | Sweden, Norway, Finland, |
| | | Denmark |
| _ | 497K11290 | Brazil |
| _ | 497K16420 | CFax (XE) |
| _ | 497K16440 | CFax (USSG/XCL) |
| _ | 497K16510 | CFax34 (United Kingdom, Spain, |
| | | Greece, Ireland, Portugal) |
| _ | 497K16520 | CFax34 (Austria, Germany, |
| | | Switzerland, Italy) |
| _ | 497K16530 | CFax34 (Sweden, Norway, Finland, Denmark) |
| _ | 497K16540 | CFax34 (Netherlands, Belgium, |
| | | France) |
| _ | 497K16560 | CFax34 (Brazil) |
| 2 | _ | Line 2 Fax PWB kits (see below for |
| | | variants) |
| _ | 607K08130 | CFax (W/TAG X-001) |
| - | 607K09580 | CFax34 (See NOTE 2) (W/TAG X-002) |

NOTE: 1. Do not order 497/8K parts. 497/8K parts are customer install kits and are shown for reference only.

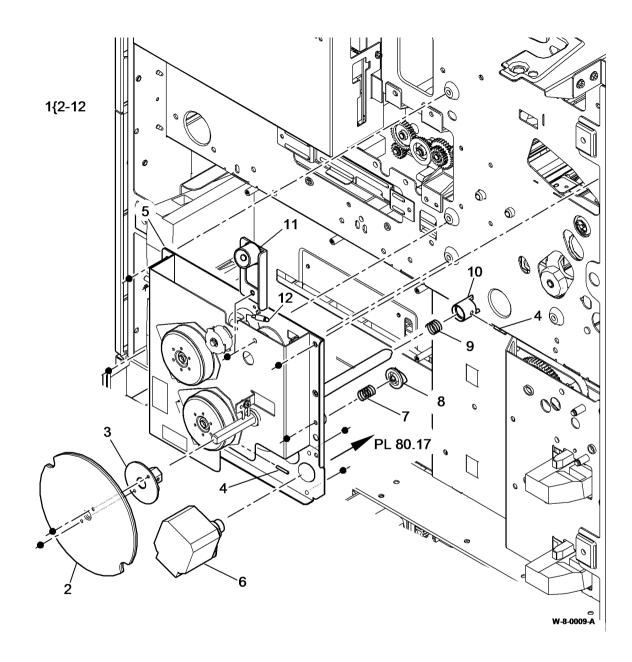
NOTE: 2. Ensure the system software of the machine is at version 073.xxx.xxx.xxx before installing this fax kit.

NO EXPLODED VIEW PROVIDED

W-8-0134-B

PL 40.15 Main Drive Module

| | Dont | Description |
|------|-----------|--|
| ltem | Part | Description |
| 1 | 007K20788 | Main drive module (REP 40.1, ADJ 40.1) |
| 2 | _ | Flywheel (P/O PL 40.15 Item 1) |
| 3 | _ | Flywheel clamp (P/O PL 40.15 Item 1) |
| 4 | _ | Dowel pin (P/O PL 40.15 Item 1) |
| 5 | _ | Main drive unit (P/O PL 40.15 Item 1) |
| 6 | 127E17792 | Registration motor (REP 40.2) |
| 7 | _ | Spring (P/O PL 40.15 Item 1) |
| 8 | _ | Developer dog gear (P/O PL 40.15 Item 1) |
| 9 | _ | Spring (P/O PL 40.15 Item 1) |
| 10 | _ | Photoreceptor dog gear (P/O PL 40.15 Item 1) |
| 11 | _ | Tensioner (P/O PL 40.15 Item 1) |
| 12 | _ | Tension spring (P/O PL 40.15 Item 1) |

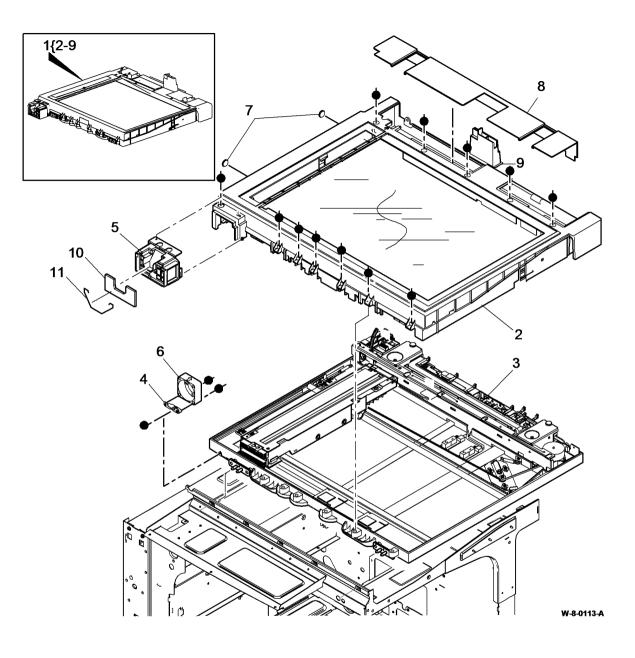


PL 60.15 Scanner Module, CVT/ Document Glass

| Item | Part | Description |
|------|-----------|---|
| 1 | 607K11970 | Scanner module (REP 60.2) |
| 2 | 848K98180 | Top cover assembly (See NOTE 2) (REP 60.3) |
| 3 | _ | Base (P/O PL 60.15 Item 1) |
| 4 | - | Fan bracket (Not Spared) (REP 60.14) |
| 5 | 819E17010 | Fan filter cover (REP 60.3) |
| 6 | 127K69240 | Cooling fan (MOT62-029) (REP 60.14) |
| 7 | - | Top cover plug (P/O PL 60.15 Item 1) |
| 8 | 848K83750 | Rear cover (REP 60.1) |
| 9 | - | SPDH harness guide (P/O PL 60.15 Item 1) (REP 5.19) |
| 10 | 053E08860 | Fan filter (REP 60.3) |
| 11 | - | Wire retainer (Not Spared) |

NOTE: 1.Refer to ADJ 60.1 for the scanner cleaning procedure.

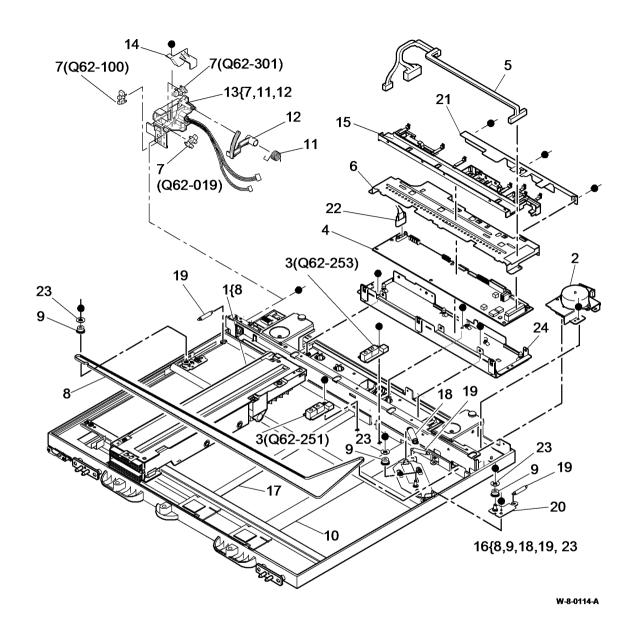
NOTE: 2.The top cover assembly includes the CVT glass and the platen glass.



PL 60.20 Scanner Electrical Components

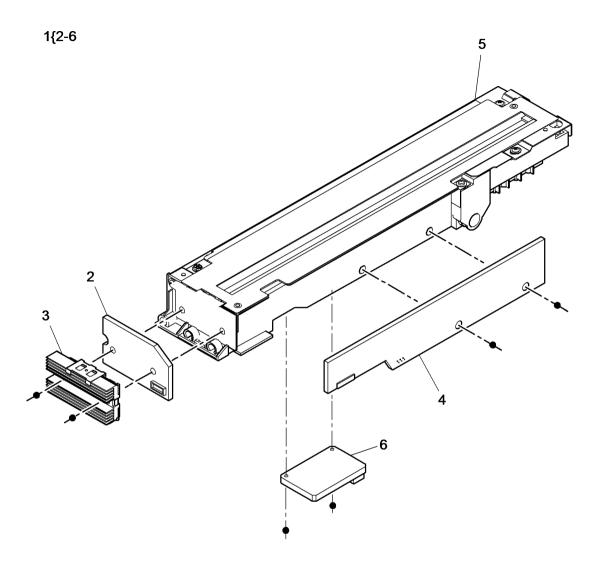
| Comp | Components | | | |
|----------|----------------|---|--|--|
| Item | Part | Description | | |
| 1 | - | Scan carriage assembly (REF: PL 60.25 Item 1) (REP 60.5) | | |
| 2 | 127K69280 | Scan carriage motor assembly (MOT62-031) (REP 60.10) | | |
| 3 | 130E19050 | Document size sensor 1 (Q62-251), Document size sensor 2 (Q62-253) (REP 60.13) | | |
| 4 5 | 960K85691 - | Scanner PWB (REP 60.4) SBC PWB/Scanner PWB comms/ power harness (Not Spared) | | |
| 6 | | Scanner PWB cover (Not Spared) (REP 60.4) | | |
| 7 | 130E19040 | Carriage home sensor (Q62-100)/ DH angle sensor (Q62-301) (REP 60.9)/DH platen down sensor (Q62-019) | | |
| 8 | - | Scan carriage drive belt (P/O PL 60.20 Item 16) (REP 60.11) | | |
| 9 | - | Scan carriage idler pulley (P/O PL 60.20 Item 16) (REP 60.12) | | |
| 10 | 117E43811 | Scan carriage power ribbon cable (REP 60.7) | | |
| 11 | _ | Actuator spring (P/O PL 60.20 Item 13) | | |
| 12 | - | SPDH angle sensor actuator (P/O PL 60.20 Item 13) (REP 60.9) | | |
| 13 14 | 120K03740 - | Actuator support (REP 60.9) Cable shield (Not Spared) (REP 60.9) | | |
| 15 | - | Harness guide (Not Spared) (REP 60.4) | | |
| 16 | - | Scanner drive kit (REF: PL 31.11 Item 6) | | |
| 17 | 117E43821 | Scan carriage data ribbon cable (REP 60.8) | | |
| 18 | _ | Tension spring (P/O PL 60.20 Item 16) | | |
| 19 | - | Ground spring (P/O PL 60.20 Item 16) | | |
| 20 21 | | Mounting plate (Not Spared) Faraday shield (Not Spared) (REP 60.1) | | |
| 22 | 952K39461 | SBC PWB/Scanner PWB data cable | | |
| 23 | _ | Pulley flange (P/O PL 60.20 Item 16) | | |
| 24 | - | Scanner PWB support (Not Spared) | | |

NOTE: Refer to ADJ 60.1 for the scanner cleaning procedure.



PL 60.25 Scan Carriage Assembly

| Item | Part | Description |
|------|-----------|---|
| 1 | 041K06842 | Scan carriage assembly (REP 60.5) |
| 2 | - | Scanner LED lamp PWB (P/O PL 60.25 Item 1) |
| 3 | - | LED lamp assembly (P/O PL 60.25 Item 1) |
| 4 | - | Scanner CCD PWB (P/O PL 60.25 Item 1) |
| 5 | - | Scan carriage unit (P/O PL 60.25 Item 1) |
| 6 | - | Scanner LED drive PWB (P/O PL 60.25 Item 1) |

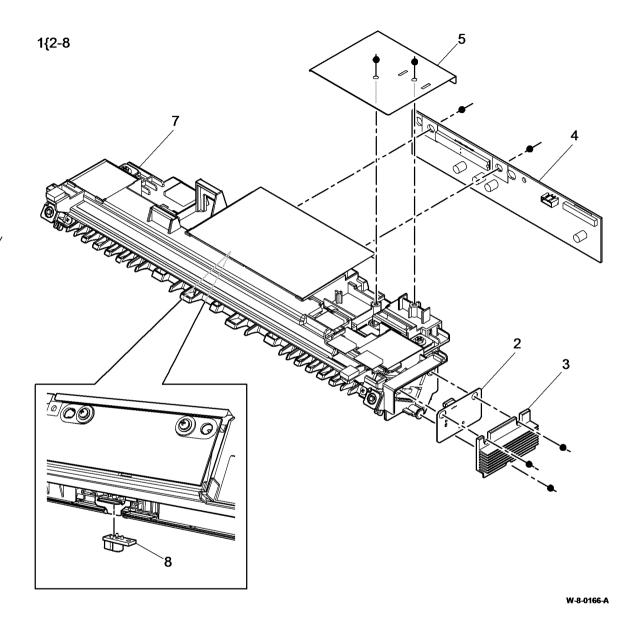


W-8-0165-A

PL 60.30 Side 2 Scan Assembly

| Item | Part | Description |
|------|-----------|--|
| 1 | 041K06851 | Side 2 scan assembly (REP 60.6) |
| 2 | _ | Side 2 LED lamp PWB (P/O PL 60.30 Item 1) |
| 3 | _ | Side 2 LED lamp assembly (P/O PL 60.30 Item 1) |
| 4 | _ | Side 2 CCD PWB (P/O PL 60.30 Item 1) |
| 5 | _ | Harness cover (P/O PL 60.30 Item 1) |
| 6 | - | Not used |
| 7 | _ | Scan carriage unit (P/O PL 60.30 Item 1) |
| 8 | 130E19060 | Side 2 reg sensor (Q05-343) (REP 60.6) |

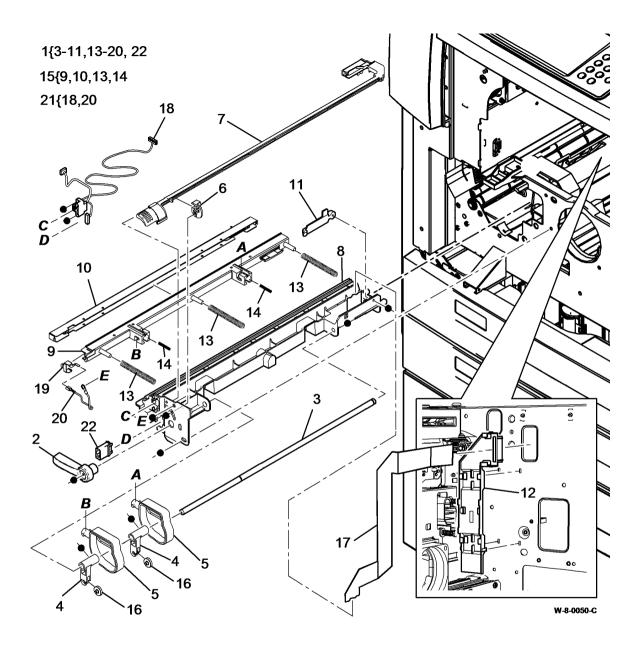
NOTE: Refer to ADJ 60.2 for the side 2 scan assembly cleaning procedure.



PL 60.35 LED Print Head Module

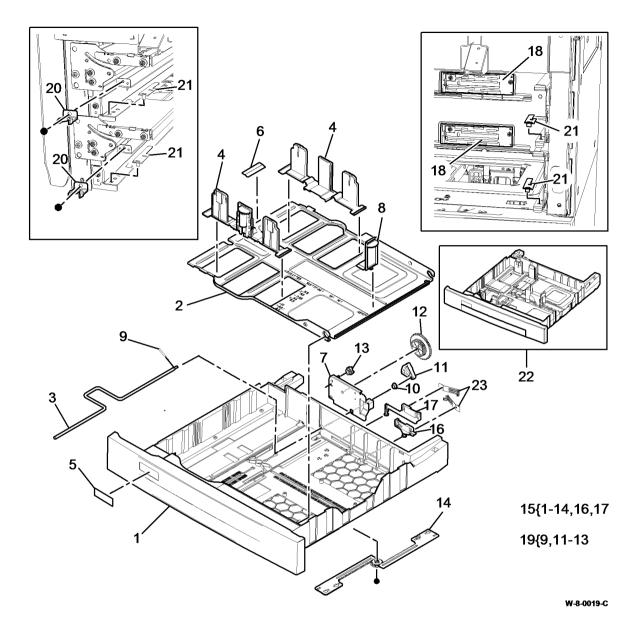
| 00 | .00 LLD . | Tille Ficad Module |
|------|-----------|---|
| Item | Part | Description |
| 1 | 008K02579 | LED print head module (REP 60.15) |
| 2 | 011E30932 | Latch |
| 3 | _ | Cam shaft (P/O PL 60.35 Item 1) |
| 4 | _ | Cam (P/O PL 60.35 Item 1) |
| 5 | _ | Cam cover (P/O PL 60.35 Item 1) |
| 6 | - | Locking bracket (P/O PL 60.35 Item 1) |
| 7 | - | LED print head cleaner (P/O PL 60.35 Item 1) |
| 8 | _ | Housing (P/O PL 60.35 Item 1) |
| 9 | _ | LED carrier (P/O PL 60.35 Item 1) |
| 10 | _ | LED print head (P/O PL 60.35 Item 1) |
| 11 | _ | Cable clamp (P/O PL 60.35 Item 1) |
| 12 | _ | Ribbon cable support (Not Spared) |
| 13 | _ | LED spring (P/O PL 60.35 Item 1) |
| 14 | _ | Cam spring (P/O PL 60.35 Item 1) |
| 15 | - | LED print head assembly (P/O PL 60.35 Item 1) (REP 60.15) |
| 16 | _ | Cam roller (P/O PL 60.35 Item 1) |
| 17 | _ | LED print head module to SBC PWB ribbon cable (P/O PL 60.35 |
| 18 | _ | Item 1) CRUM connectors assembly (P/O PL 60.35 Item 21) (REP 60.15) |
| 19 | - | Retaining clip (P/O PL 60.35 Item 1) |
| 20 | _ | Grounding cable (P/O PL 60.35 Item 21) |
| 21 | 952K37725 | LED print head harness set |
| 22 | - | Connector (P/O PL 60.35 Item 1) |

NOTE: Refer to ADJ 60.4 for cleaning the LED print head.



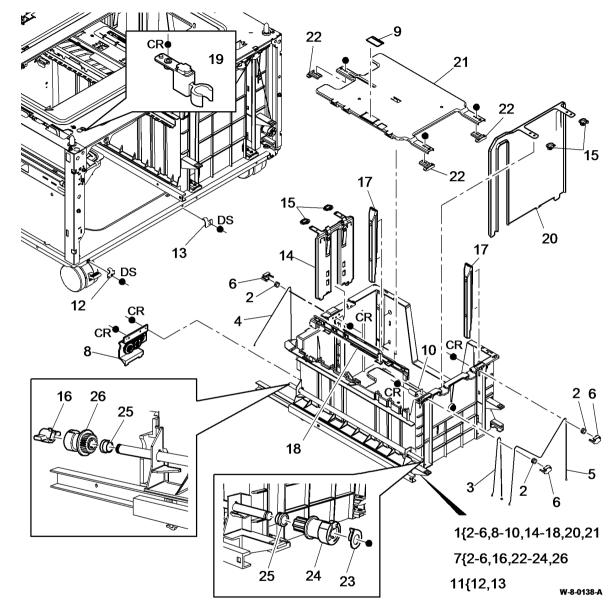
PL 70.10 Tray 1 and 2 Assembly

| . = . o o ay . | | and 2 / tocombiy |
|----------------|-----------|--|
| Item | Part | Description |
| 1 | _ | Tray housing (P/O PL 70.10 Item |
| | | 15) |
| 2 | _ | Lift plate (P/O PL 70.10 Item 15) |
| 3 | _ | Lift arm (P/O PL 70.10 Item 15) |
| 4 | _ | Paper width guide (P/O PL 70.10 |
| | | Item 15) (REP 70.3) |
| 5 | - | Label (P/O PL 70.10 Item 15) |
| 6 | - | Pad (P/O PL 70.10 Item 15) |
| 7 | _ | Retaining plate (P/O PL 70.10 Item 15) (REP 70.12) |
| 8 | _ | Paper length guide (P/O PL 70.10 |
| Ū | | Item 15) (REP 70.3) |
| 9 | _ | Dowel pin (P/O PL 70.10 Item 19) |
| | | (REP 70.12) |
| 10 | _ | Bearing (P/O PL 70.10 Item 15) |
| | | (REP 70.12) |
| 11 | _ | Quadrant gear (60T) (P/O PL |
| | | 70.10 Item 19) (REP 70.12) |
| 12 | _ | Gear (60T) (P/O PL 70.10 Item 19) |
| | | (REP 70.12) |
| 13 | _ | Gear (13T) (P/O PL 70.10 Item 19) |
| | | (REP 70.12) |
| 14 | - | Rack assembly (P/O PL 70.10 Item |
| | | 15) |
| 15 | 050K77216 | Tray assembly (REP 70.1, ADJ |
| | | 40.1) |
| 16 | _ | Length sensor bracket assembly |
| 47 | | (P/O PL 70.10 Item 15) |
| 17 | _ | Width sensor bracket assembly (P/ |
| 10 | 960K79745 | O PL 70.10 Item 15) |
| 18 | 960K/9/45 | Paper size sensing PWB (REP 70.4) |
| 19 | 859K04220 | Lift gear kit |
| 20 | 819E15872 | Tray clip |
| 21 | 819E20350 | Slide pad |
| 22 | 050K78660 | Envelope tray assembly |
| 23 | 869E35810 | Paper size leaf spring |
| 20 | 0000000 | i apoi sizo ioai spinig |



PL 70.18 Tray 3 Assembly

| 1 6 70 | . To Tray 5 | Assembly |
|--------|-------------|--------------------------------------|
| Item | Part | Description |
| 1 | 050K77271 | Tray 3 assembly (REP 70.5) |
| 2 | _ | Tray hoist pulley (P/O PL 70.18 |
| | | Item 7) |
| 3 | _ | Front short elevator cable (P/O PL |
| | | 70.18 Item 7) |
| 4 | _ | Rear elevator cable (P/O PL 70.18 |
| | | Item 7) |
| 5 | _ | Front long elevator cable (P/O PL |
| | | 70.18 Item 7) |
| 6 | _ | Pulley carrier (P/O PL 70.18 Item 7) |
| 7 | 604K84091 | Tray 3 elevator cable kit (REP 70.8) |
| 8 | 004K07860 | Tray 3 elevate damper assembly |
| | | (REP 70.11) |
| 9 | _ | Retard pad (Not Spared) |
| 10 | _ | Tray 3 skew bracket (P/O PL 31.14 |
| | | Item 4) (See NOTE) |
| 11 | 604K83671 | Tray 3 and 4 clamp kit |
| 12 | - | Side clamp (2 off) (P/O PL 70.18 |
| | | Item 11) |
| 13 | _ | Centre clamp (P/O PL 70.18 Item |
| | | 11) |
| 14 | - | Rear paper guide (P/O PL 70.18 |
| | | Item 1) (ADJ 70.1) |
| 15 | 019E74532 | Retaining clips |
| 16 | _ | Elevator drives gear coupling (P/O |
| | | PL 70.18 Item 7) |
| 17 | _ | Tray 3 paper guide (P/O PL 70.18 |
| | | Item 1) |
| 18 | 815E92301 | Separation strip |
| 19 | 819E20420 | Front clip (ADJ 80.5) |
| 20 | _ | Front paper guide (P/O PL 70.18 |
| 0.4 | | Item 1) (ADJ 70.1) |
| 21 | _ | Lift plate (P/O PL 70.18 Item 1) |
| 22 | _ | Guide plate (P/O PL 70.18 Item 7) |
| 23 | _ | Spacer (P/O PL 70.18 Item 7) |
| 24 | _ | Elevator pulley (P/O PL 70.18 Item |
| 25 | | 7) |
| 25 | _ | Bearing (P/O PL 70.18 Item 1) |
| 26 | _ | Elevator gear (P/O PL 70.18 Item |
| | | 7) |
| | | |



PL 70.19 Tray 4 Assembly

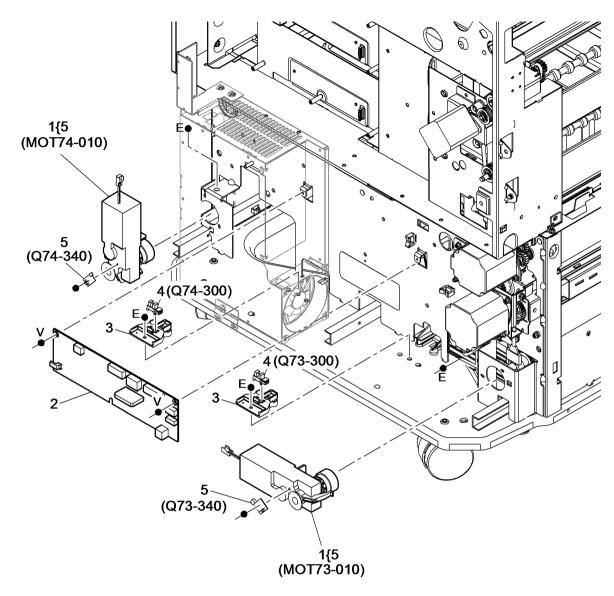
| | Dant | Description | | | |
|------|-----------|---|-------------------|------------------------------------|--------------|
| Item | Part | Description | | 9 | |
| 1 | 050K74923 | Tray 4 assembly (REP 70.14) | | 15 22 | |
| 2 | _ | Tray hoist pulley (P/O PL 70.19 Item 7) | | | 21 |
| 3 | - | Front short elevator cable (P/O PL 70.19 Item 7) | | | |
| 4 | _ | Rear elevator cable (P/O PL 70.19 Item 7) | | 14 | 22 |
| 5 | _ | Front long elevator cable (P/O PL 70.19 Item 7) | | | |
| 6 | _ | Pulley carrier (P/O PL 70.19 Item 7) | | | |
| 7 | 604K84081 | Tray 4 elevator cable kit (REP 70.8) | | | |
| 8 | 004K07870 | Tray 4 elevate damper assembly (REP 70.11) | | | 15 |
| 9 | _ | Retard pad (Not Spared) | | 17 | |
| 10 | - | Tray 4 skew bracket (P/O PL 31.14 Item 4) | | 12 '\' | 20 |
| 11 | 604K83671 | Tray 3 and 4 clamp kit | | | |
| 12 | - | Side clamp (2 off) (P/O PL 70.19 Item 11) | | DS DS | Ur |
| 13 | - | Centre clamp (P/O PL 70.19 Item 11) | | CR 8 17 | |
| 14 | - | Rear paper guide (P/O PL 70.19 Item 1) (ADJ 70.1) | DS | CR | |
| 15 | 019E74532 | Retaining clips | 13 6 2 | | |
| 16 | - | Elevator drives gear coupling (P/O PL 70.19 Item 7) | 10 2 | | |
| 17 | - | Tray 4 paper guide (P/O PL 70.19 Item 1) | | CR | 23 24 25 |
| 18 | 815E92301 | Separation strip | | | \ |
| 19 | _ | Not used | 25 26 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ≫ / / |
| 20 | - | Front paper guide (P/O PL 70.19 Item 1) (ADJ 70.1) | | CR | 3 |
| 21 | _ | Lift plate (P/O PL 70.19 Item 1) | | | 2 |
| 22 | _ | Guide plate (P/O PL 70.19 Item 7) | 16 | | |
| 23 | _ | Spacer (P/O PL 70.19 Item 7) | | | |
| 24 | _ | Elevator pulley (P/O PL 70.19 Item 7) | | | |
| 25 | _ | Bearing (Not Spared) | | 18 | 6 |
| 26 | - | Elevator gear (P/O PL 70.19 Item 7) | ✓ | | |
| | | | 7{2-6,16,22-24,26 | 1{2-6,8-10,14-18, 20-26 | 2 6 |
| | | | 11{12,13 | 1{2-0,0-10,14-10, 20-20 | |
| | | | 1 17 12, 13 | J | W-s |

W-8-0139-A

PL 70.21 Elevator Motor and Control PWB

| Item | Part | Description |
|------|-----------|--|
| 1 | 127K78351 | Tray 3 elevator motor (MOT73-010) (REP 70.6)/ Tray 4 elevator motor (MOT74-010) (See NOTE) |
| 2 | 960K80832 | Tray 4 control PWB (REP 70.13) |
| 3 | 819E21570 | Sensor holder |
| 4 | 130E18220 | Tray 3 home sensor (Q73-300)/ |
| | | Tray 4 home sensor (Q74-300) (REP 70.10) |
| 5 | _ | Tray 3 level encoder sensor (Q73- |
| | | 340)/ Tray 4 level encoder sensor |
| | | (Q74-340) (P/O PL 70.21 Item 1) |

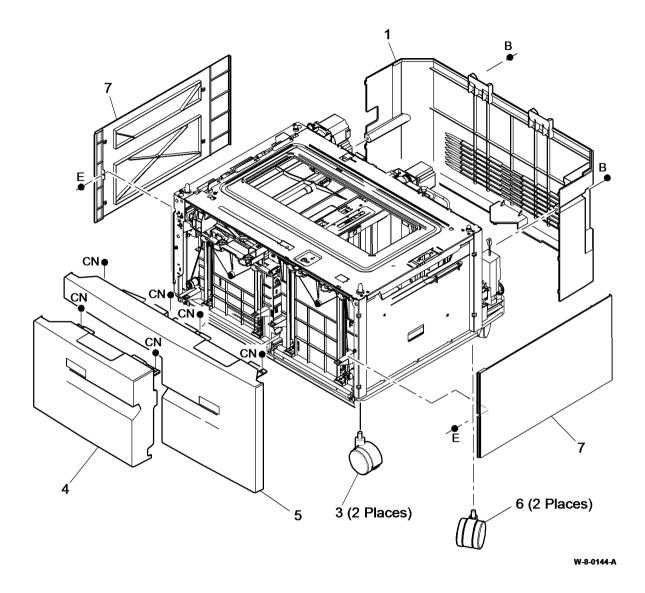
NOTE: To remove tray 4 elevator motor W/O TAG 009 refer to REP 70.15. To remove tray 4 elevator motor W/TAG 009 refer to REP 70.19.



W-8-0140-A

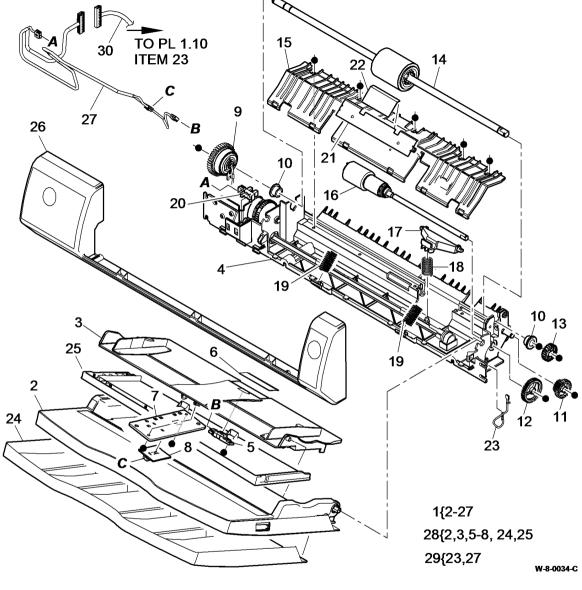
PL 70.26 Tray 3 and 4 Assembly Covers

| Item | Part | Description |
|------|-----------|----------------------------------|
| 1 | 822E16692 | Lower rear cover |
| 2 | _ | Not used |
| 3 | 059K77240 | Castor (locking) |
| 4 | _ | Tray 3 front cover (P/O PL 31.14 |
| | | Item 6) (REP 70.5) |
| 5 | _ | Tray 4 front cover (P/O PL 31.14 |
| | | Item 8) (REP 70.14) |
| 6 | _ | Castor (Not Spared) |
| 7 | 822E15371 | Lower left/right cover |



PL 70.35 Bypass Tray Assembly

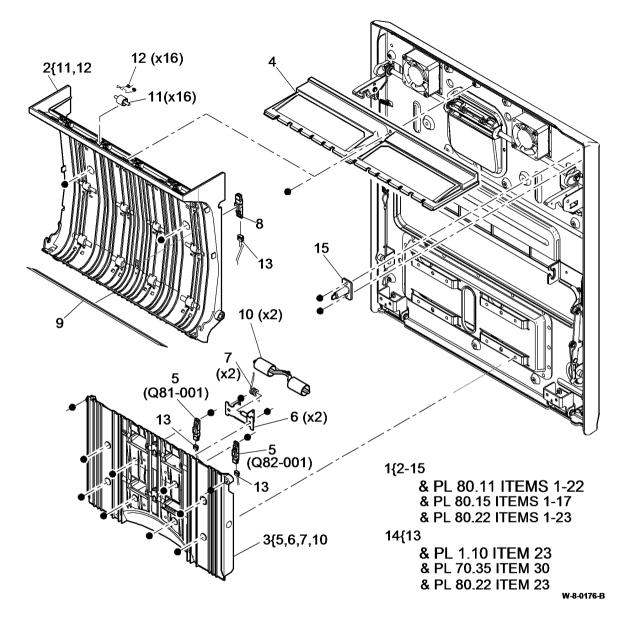
| | u.ss bypa | ss may Assembly | |
|----------|------------|--|-----|
| Item | Part | Description | |
| 1 | 050K77403 | Bypass tray assembly (REP 70.2) | |
| 2 | _ | Upper tray assembly (P/O PL 70.35 | |
| | | Item 28) | (í |
| 3 | _ | Paper tray guide assembly (P/O PL | |
| | | 70.35 Item 28) | // |
| 4 | _ | Feeder frame (P/O PL 70.35 Item | |
| | | 1) | |
| 5 | _ | Bypass tray empty sensor (Q75- | |
| | | 320) (P/O PL 70.35 Item 28) | |
| 6 | 019K20200 | Retard pad (See NOTE) | |
| 7 | _ | Bracket (P/O PL 70.35 Item 28) | |
| 8 | _ | Bypass tray width sensor (Q75- | |
| | | 601) (P/O PL 70.35 Item 28) (REP | |
| | | 70.7) | |
| 9 | 007K20755 | Bypass tray clutch (CL75-325) | |
| | | (REP 80.15) | 1 |
| 10 | - | Bearing (P/O PL 70.35 Item 1) | - 1 |
| 11 | - | Idler gear (P/O PL 70.35 Item 1) | 6 |
| 12 | _ | Retard shaft gear (P/O PL 70.35 | |
| | | Item 1) | |
| 13 | _ | Feed shaft gear (P/O PL 70.35 Item | |
| | 0001/01/10 | 1) | |
| 14 | 006K34443 | Feed roll assembly (See NOTE) | |
| 4- | | (REP 80.15) | |
| 15 | - | Baffle (P/O PL 70.35 Item 1) | |
| 16 | 006K34432 | Retard roll assembly (See NOTE) | |
| 17 | | (REP 80.16) | |
| 17 18 | _ | Retainer (P/O PL 70.35 Item 1) | |
| 19 | _ | Nip spring (P/O PL 70.35 Item 1) | |
| 19 | _ | Elevator tray spring (P/O PL 70.35 Item 1) | |
| 20 | 130E18220 | Bypass tray elevate sensor (Q75- | |
| 20 | 130L 10220 | 040) | |
| 21 | _ | Paper guide (P/O PL 70.35 Item 1) | |
| 22 | 801E35571 | Mylar retard shield (REP 80.34, | 24 |
| | 001200011 | ADJ 80.4) | \ |
| 23 | _ | Grounding cable (P/O PL 70.35 | Κ, |
| | | Item 29) | |
| 24 | _ | Lower tray (P/O PL 70.35 Item 28) | |
| 25 | _ | Sensor cover (P/O PL 70.35 Item | |
| | | 28) | |
| 26 | _ | Bypass tray feedhead cover (P/O | |
| | | PL 70.35 Item 1) | |
| 27 | _ | Bypass tray harness (P/O PL 70.35 | |
| | | Item 27) (REP 70.18) | |
| 28 | 050K77187 | Bypass elevate tray assembly | |
| | | (REP 70.18) | |
| 29 | 952K37733 | Bypass tray harness set | |
| 30 | _ | IOT PWB to Bypass tray | |
| | | intermediate harness (P/O PL | |
| | | 80.10 Item 14) (REP 80.33) | |
| | | | |



NOTE: HFSI. To reset the HFSI count, refer to dC135.

PL 80.10 Left Door Assembly (1 of 2)

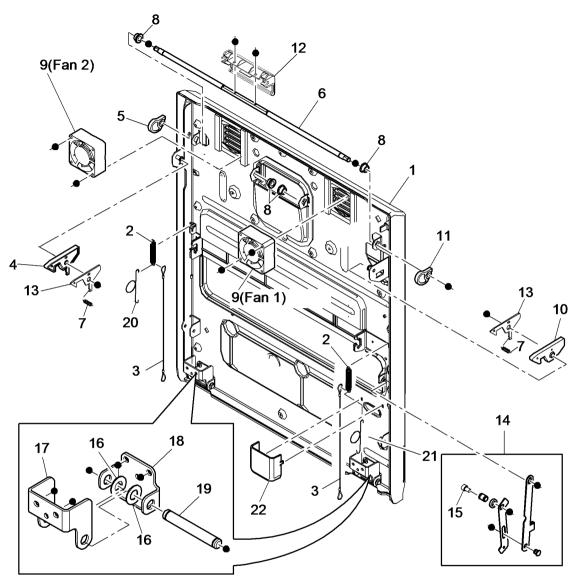
| | | , |
|------|-----------|---|
| Item | Part | Description |
| 1 | 948K10174 | Left door assembly (REP 80.7) |
| 2 | 948K25910 | Duplex outer guide assembly (REP 80.9) |
| 3 | 038K24012 | Lower left door paper guide (REP 80.2) |
| 4 | _ | Left door fan cover (P/O PL 80.10 Item 1) |
| 5 | _ | Tray 1 TAR sensor (Q81-001)/ Tray 2 TAR sensor (Q82-001) (P/O PL 80.10 Item 3) (REP 80.2) |
| 6 | _ | Bracket (P/O PL 80.10 Item 3) |
| 7 | _ | Tension spring (P/O PL 80.10 Item 3) |
| 8 | _ | Duplex sensor (Q83-160) (P/O PL 80.10 Item 2) (REP 80.9) |
| 9 | _ | Mylar (P/O PL 80.10 Item 2) |
| 10 | _ | Nip roll assembly (P/O PL 80.10 Item 3) |
| 11 | _ | Duplex roll idler (P/O PL 80.10 Item 2) |
| 12 | _ | Idler spring (P/O PL 80.10 Item 2) |
| 13 | - | Left door sensor and fan harness (P/O PL 80.10 Item 14) (REP 80.33) |
| 14 | 952K37752 | Left door harness set (REP 80.33) |
| 15 | - | Left door interlock actuator (P/O PL 80.10 Item 1) |



PL 80.11 Left Door Assembly (2 of 2)

| | | DOI ASSEMBLY (2 OI 2) |
|------|-----------|--|
| Item | Part | Description |
| 1 | _ | Left door frame and cover |
| | | assembly (P/O PL 80.10 Item 1) |
| • | | (REP 80.13) |
| 2 | _ | Damper spring (P/O PL 31.14 Item |
| 2 | | 3) |
| 3 | _ | Damper cable (P/O PL 31.14 Item 3) |
| 4 | _ | Front latch (P/O PL 80.10 Item 1) |
| 4 | _ | (REP 80.11) |
| 5 | _ | Front latch cam (P/O PL 80.10 Item |
| O | | 1) |
| 6 | _ | Latch handle shaft (P/O PL 80.10 |
| · · | | Item 1) |
| 7 | _ | Latch spring (P/O PL 80.10 Item 1) |
| | | (REP 80.11) |
| 8 | _ | Bearing (P/O PL 80.10 Item 1) |
| 9 | 127E17991 | Left door fan 1 / Left door fan 2 |
| | | (MOT80-015) (REP 80.35) |
| 10 | _ | Rear latch (P/O PL 80.10 Item 1) |
| | | (REP 80.11) |
| 11 | _ | Rear latch cam (P/O PL 80.10 Item |
| | | 1) |
| 12 | _ | Latch handle (P/O PL 80.10 Item 1) |
| 13 | _ | Door latch plate (P/O PL 80.10 Item |
| 14 | | 1) (REP 80.11) Door link assembly (P/O PL 31.14 |
| 14 | _ | Item 3) |
| 15 | _ | Door link locking screw (P/O PL |
| 13 | | 80.10 Item 1) |
| 16 | _ | Plastic washer (P/O PL 80.10 Item |
| 10 | | 1) |
| 17 | _ | Hinge support bracket (P/O PL |
| | | 80.10 Item 1) |
| 18 | _ | Hinge bracket (P/O PL 80.10 Item |
| | | 1) |
| 19 | _ | Hinge pin (P/O PL 80.10 Item 1) |
| 20 | _ | Front damper spring tensioner tool |
| | | (P/O PL 31.14 Item 7) (See NOTE) |
| 21 | _ | Rear damper spring tensioner tool |
| | | (P/O PL 31.14 Item 7) (See NOTE) |
| 22 | _ | Connector cover (P/O PL 80.10 |
| | | Item 1) |
| | | |

NOTE: Refer to GP 37 for correct use of these tools when removing left door assembly.



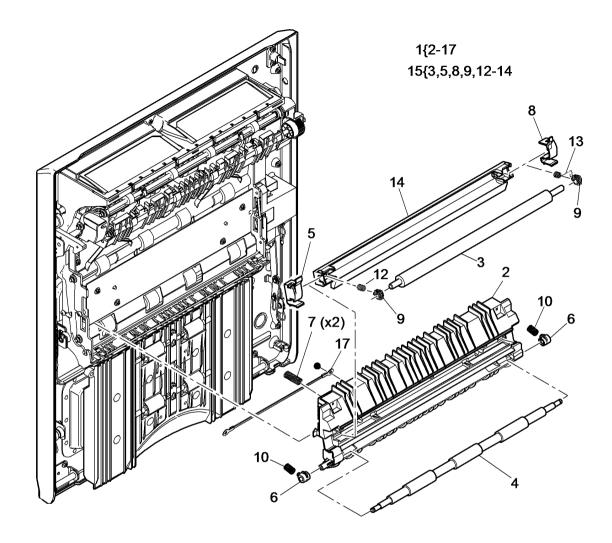
W-8-0024-A

Parts Lists

PL 80.11

PL 80.15 Registration Transfer Assembly

| Item | Part | Description |
|------|-----------|--|
| 1 | 038K25740 | Registration transfer assembly (REP 80.3) |
| 2 | - | Registration transfer housing (P/O PL 80.15 Item 1) |
| 3 | - | Bias transfer roll (P/O PL 80.15 Item 15) |
| 4 | - | Registration nip roll (P/O PL 80.15 Item 1) (REP 80.3) |
| 5 | - | Front retaining clip (P/O PL 80.15 Item 15) |
| 6 | - | Registration nip roll bearing (P/O PL 80.15 Item 1) |
| 7 | _ | Spring (P/O PL 80.15 Item 1) |
| 8 | - | Rear retaining clamp (P/O PL 80.15 Item 15) |
| 9 | - | Bias transfer roll bearing (P/O PL 80.15 Item 15) |
| 10 | - | Support spring (P/O PL 80.15 Item 1) |
| 11 | _ | Not used |
| 12 | - | Front housing spring (P/O PL 80.15 Item 15) |
| 13 | - | Rear housing spring (P/O PL 80.15 Item 15) |
| 14 | - | Bias transfer roll housing (P/O PL 80.15 Item 15) |
| 15 | 008R13178 | Bias transfer roll housing assembly |
| 16 | _ | Not used |
| 17 | _ | Ground strap (P/O PL 80.15 Item 1) |

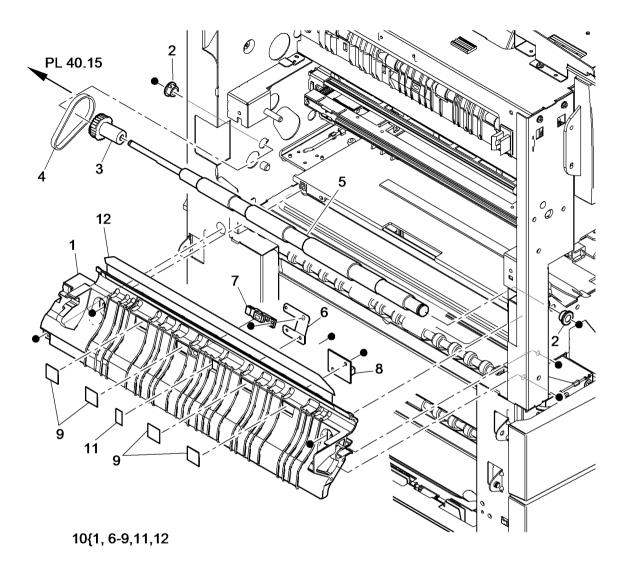


W-8-0033-A

PL 80.17 Registration Transport

| | • | |
|------|-----------|-------------------------------------|
| Item | Part | Description |
| 1 | - | Registration transport housing (P/O |
| | | PL 80.17 Item 10) (REP 80.4) |
| 2 | _ | Bearing (Not Spared) |
| 3 | _ | Registration drive pulley (Not |
| | | Spared) (ADJ 40.1) |
| 4 | _ | Registration roll drive belt (Not |
| | | Spared) |
| 5 | 806E53400 | Registration roll (REP 80.4) |
| 6 | _ | Registration sensor bracket (P/O |
| | | PL 80.17 Item 10) |
| 7 | - | Registration sensor (Q82-150) (P/ |
| | | O PL 80.17 Item 10) (REP 80.4) |
| 8 | - | Environmental sensors PWB (P/O |
| | | PL 80.17 Item 10) (REP 90.4) |
| 9 | _ | Mylar (P/O PL 80.17 Item 10) |
| 10 | 859K05394 | Registration transport assembly |
| | | (REP 80.4) |
| 11 | - | Mylar (P/O PL 80.17 Item 10) |
| 12 | 038E52180 | Pressure blade (See NOTE) |

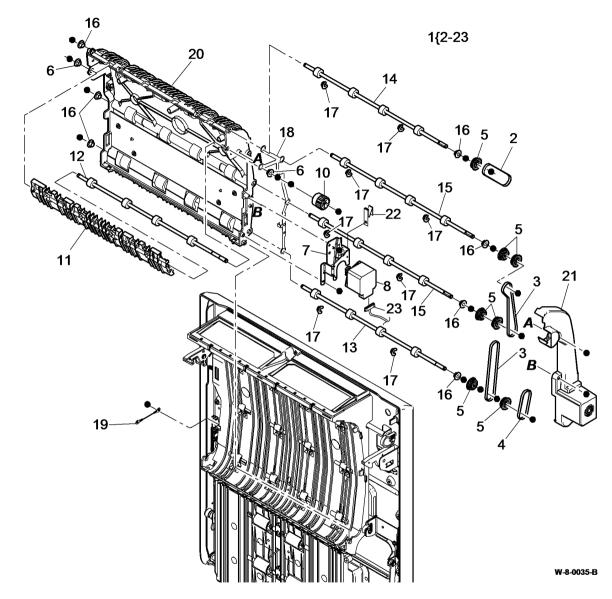
NOTE: Also supplied as part of PL 80.17 Item 10.



W-8-0175-B

PL 80.22 Duplex Transport Assembly

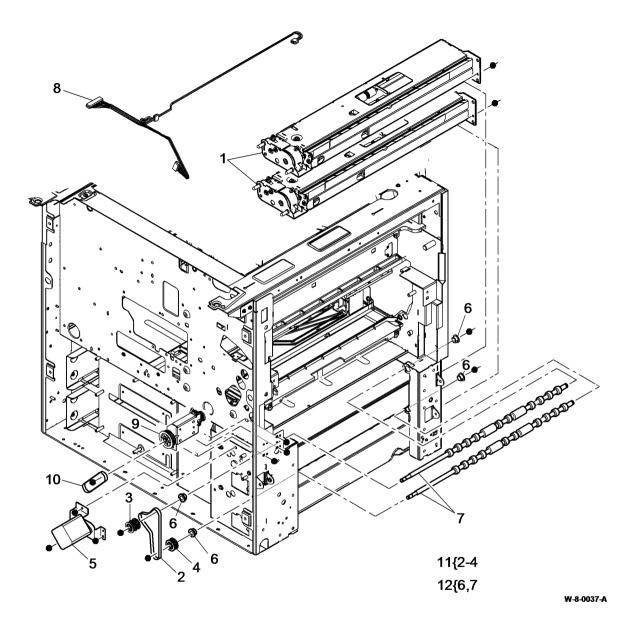
| 00 | TE COLEE Duplox Transport Accombly | | | |
|------|------------------------------------|---|--|--|
| Item | Part | Description | | |
| 1 | 948K19001 | Duplex transport assembly (REP 80.5) | | |
| 2 | - | Drive belt (65T) (P/O PL 80.22 Item 1) | | |
| 3 | _ | Drive belt (89T) (P/O PL 80.22 Item 1) | | |
| 4 | - | Drive belt (40T) (P/O PL 80.22 Item 1) | | |
| 5 | _ | Pulley (21T) (P/O PL 80.22 Item 1) | | |
| 6 | _ | Post fuser roll bearing (P/O PL | | |
| - | | 80.22 Item 1) | | |
| 7 | - | Mounting bracket (Not Spared) (REP 80.12) | | |
| 8 | 927K02400 | Duplex motor assembly (REP 80.12) | | |
| 9 | _ | Not used | | |
| 10 | - | Gear (P/O PL 80.22 Item 1) | | |
| 11 | - | Post fuser guide (P/O PL 80.22 Item 1) | | |
| 12 | - | Post fuser roll (P/O PL 80.22 Item 1) | | |
| 13 | - | Lower duplex roll (P/O PL 80.22 Item 1) | | |
| 14 | _ | Upper duplex roll (P/O PL 80.22 Item 1) | | |
| 15 | - | Mid duplex roll (P/O PL 80.22 Item 1) | | |
| 16 | _ | Bearing (P/O PL 80.22 Item 1) | | |
| 17 | _ | Half bearing (P/O PL 80.22 Item 1) | | |
| 18 | _ | Ground strip (P/O PL 80.22 Item 1) | | |
| 19 | _ | Limiter (P/O PL 80.22 Item 1) | | |
| 20 | _ | Inner duplex door (P/O PL 80.22 | | |
| | | Item 1) | | |
| 21 | - | Duplex drives cover (P/O PL 80.10 Item 1) | | |
| 22 | _ | Ground contact strip (P/O PL 80.22 Item 1) | | |
| 23 | _ | Duplex motor harness (P/O PL 80.10 Item 14) (REP 80.33) | | |



PL 80.25 Tray 1 and 2 Paper Feed Assembly (1 of 2)

| | • (| • |
|------|-----------|-------------------------------------|
| Item | Part | Description |
| 1 | _ | Tray 1 or 2 paper feed assembly |
| | | (REF: PL 80.26 Item 1) |
| 2 | _ | Transport roll drive belt (P/O PL |
| | | 80.25 Item 11) (REP 80.8) |
| 3 | 020K21561 | Drive pulley (See NOTE) (REP |
| | | 80.10) |
| 4 | _ | Pulley (P/O PL 80.25 Item 11) |
| | | (REP 80.10) |
| 5 | 007K21820 | TAR/Bypass tray motor (MOT80- |
| | | 006) (REP 80.8) |
| 6 | _ | Transport roll bearing (P/O PL |
| | | 80.25 Item 12) (REP 80.10) |
| 7 | 807E47174 | Transport roll (REP 80.10) |
| 8 | _ | Power harness (Not Spared) |
| 9 | 007K20748 | Bypass tray drive assembly (REP |
| | | 80.4) |
| 10 | _ | Bypass tray drive belt (Not Spared) |
| | | (REP 80.6) |
| 11 | 020K21640 | Transport drive belt kit (REP 80.8) |
| 12 | _ | Transport roll assembly (Not |
| | | Spared) |

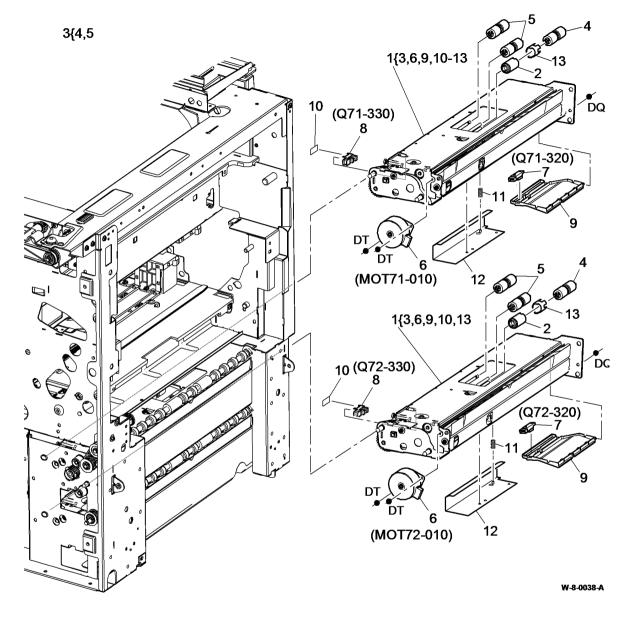
NOTE: Also part of PL 80.25 Item 11.



PL 80.26 Tray 1 and 2 Paper Feed Assembly (2 of 2)

| | (| -, |
|------|-----------|--|
| Item | Part | Description |
| 1 | 859K04212 | Tray 1 or Tray 2 paper feed |
| | | assembly (REP 80.1, ADJ 40.1) |
| 2 | 005K12242 | Friction clutch (REP 80.19) |
| 3 | 059K69800 | Roll assembly (3 rolls) (See NOTE) (REP 80.18) |
| 4 | - | Retard roll (P/O PL 80.26 Item 3) |
| 5 | _ | Feed/Nudger roll assembly (P/O PL 80.26 Item 3) |
| 6 | 127K61850 | Tray 1 elevate/feed motor (MOT71- 010)/Tray 2 elevate/feed motor (MOT72-010) |
| 7 | 130E12770 | Tray 1 empty sensor (Q71-320)/ Tray 2 empty sensor (Q72-320) |
| 8 | 130E19350 | Tray 1 stack height sensor (Q71- 330)/Tray 2 stack height sensor (Q72-330) |
| 9 | - | Guide (P/O PL 80.26 Item 1) |
| 10 | 014E67650 | Shim |
| 11 | 809E84180 | Retard roll gate spring |
| 12 | _ | Retard roll gate (P/O PL 80.26 Item 1) |
| 13 | - | Clutch coupling (P/O PL 80.26 Item 1) (REP 80.19) |

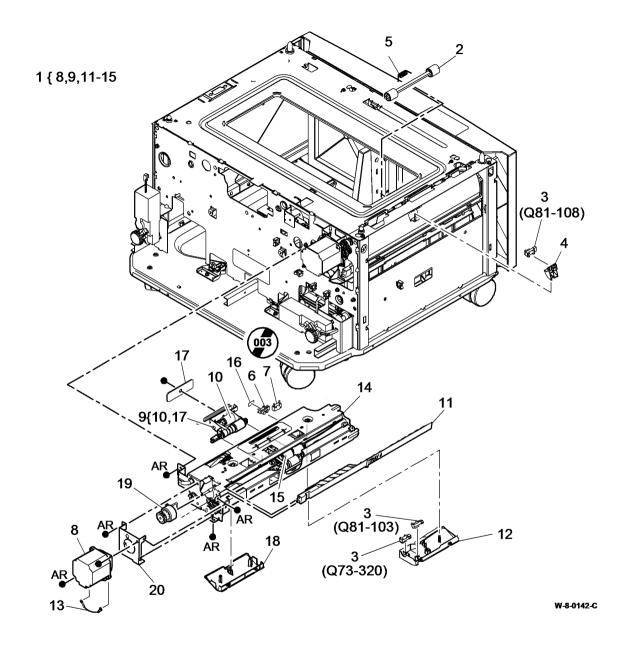
NOTE: HFSI. To reset the HFSI count, refer to dC135.



PL 80.32 Tray 3 Paper Feed Assembly

| PL OU | .SZ ITAY S | raper reed Assembly |
|-------|------------|--|
| Item | Part | Description |
| 1 | - | Tray 3 paper feed assembly (P/O PL 31.12 Item 6) (REP 80.20) |
| 2 | 859K04280 | Idler roll assembly (metal shaft) (REP 80.27) |
| - | _ | Idler roll assembly (plastic shaft) (Not Spared) |
| 3 | 130E11610 | Tray 3 empty sensor (Q73-320) (REP 70.16) / Tray 3 feed sensor (Q81-103) (REP 80.30)/ HCF exit sensor (Q81-108) |
| 4 | _ | HCF exit sensor bracket (Not Spared) |
| 5 | _ | Spring (Not Spared) |
| 6 | - | Tray 3 stack height sensor (Q73- 330) (P/O PL 31.12 Item 16) (REP 70.9) |
| 7 | _ | Tray 3 over elevate switch (Not Spared) (W/O TAG 003) |
| 8 | _ | Tray 3 feed motor (MOT81-030) (P/O PL 80.32 Item 1) |
| 9 | - | Feed roll assembly (P/O PL 31.12 Item 15) (See NOTE) (REP 80.17) |
| 10 | - | Nudger roll (P/O PL 80.32 Item 9) (REP 80.17, ADJ 80.1) |
| 11 | - | Tray 3 paper guide (P/O PL 80.32 ltem 1) (REP 80.28) |
| 12 | - | Sensor mounting (P/O PL 80.32 Item 1) |
| 13 | _ | Ground cable (P/O PL 80.32 Item 1) |
| 14 | - | Feed frame assembly (P/O PL 80.32 Item 1) |
| 15 | - | Retard roll (P/O PL 31.12 Item 15) (See NOTE) (REP 80.17, ADJ 80.3) |
| 16 | _ | Shim (P/O PL 31.12 Item 16) |
| 17 | _ | Nudger roll weight (P/O PL 80.32 Item 9) (ADJ 80.1) |
| 18 | _ | Gull wing cover (P/O PL 31.14 Item 4) |
| 19 | 121E27552 | Feed clutch (REP 80.32) |
| 20 | - | Bracket (P/O PL 80.32 Item 1) |

NOTE: HFSI. To reset the HFSI count, refer to dC135.



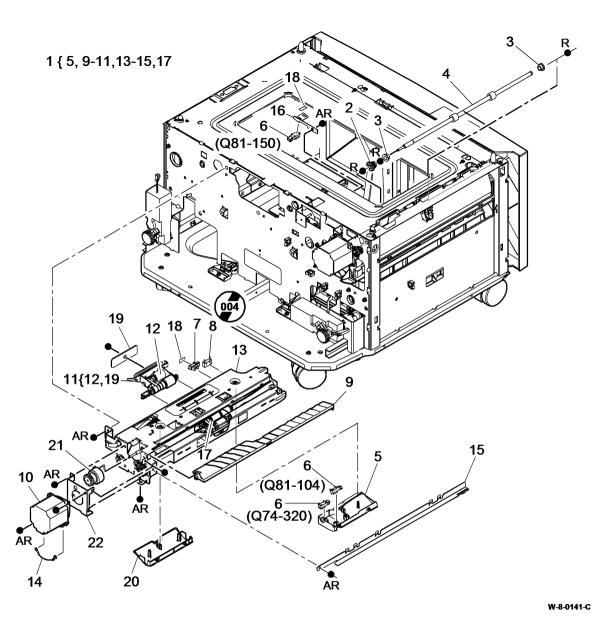
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PL 80.33 Tray 4 Paper Feed Assembly

| PL OU | .ss may 4 | raper reed Assembly |
|----------|----------------|---|
| Item | Part | Description |
| 1 | - | Tray 4 paper feed assembly (P/O PL 31.12 Item 6) (REP 80.21) |
| 2 | 007K20321 | Gear (See NOTE 2) (REP 80.27) |
| 3 | _ | Bearing (P/O PL 31.11 Item 8) |
| 4 | _ | HCF transport roll (P/O PL 31.11 Item 8) (REP 80.27) |
| 5 | - | Sensor mounting (P/O PL 80.33 Item 1) |
| 6 | 130E11610 | Tray 4 empty sensor (Q74-320) (REP 70.17)/Tray 4 feed sensor (Q81-104) (REP 80.14)/Tray 4 exit |
| 7 | - | sensor (Q81-150) (REP 80.25) Tray 4 stack height sensor (Q74- 330) (P/O PL 31.12 Item 16) (REP 70.9) |
| 8 | - | Tray 4 over elevate switch (Not Spared) (W/O TAG 004) |
| 9 | _ | Tray 4 paper guide (P/O PL 80.33 ltem 1) (REP 80.29) |
| 10 | _ | Tray 4 feed motor (MOT81-040) (P/O PL 80.33 Item 1) |
| 11 | _ | Feed roll assembly (P/O PL 31.12 Item 15) (See NOTE 1) (REP 80.17) |
| 12 | - | Nudger roll (P/O PL 80.33 Item 11) (REP 80.17, ADJ 80.1) |
| 13 | _ | Feed frame assembly (P/O PL 80.33 Item 1) |
| 14 | - | Ground cable (P/O PL 80.33 Item 1) |
| 15 | - | Support bracket (P/O PL 80.33 Item 1) |
| 16 | - | Tray 4 exit sensor bracket (Not Spared) (REP 80.25) |
| 17 | _ | Retard roll (P/O PL 31.12 Item 15) (See NOTE 1) (REP 80.17, ADJ |
| 18 | _ | 80.3) Shim (P/O PL 31.12 Item 16) |
| 19 | _ | Nudger roll weight (P/O PL 80.33 |
| 20 | _ | Item 11) (ADJ 80.1) Gull wing cover (P/O PL 31.14 Item 4) |
| 21 22 | 121E27552 - | Feed clutch (REP 80.32) Bracket (P/O PL 80.33 Item 1) |
| | | |

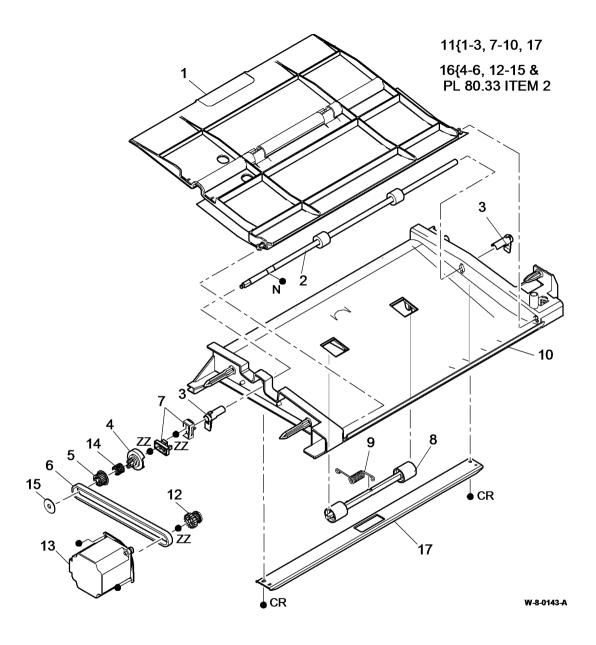
NOTE: 1. HFSI. To reset the HFSI count, refer to dC135

NOTE: 2. Also part of the Transport motor and drives kit, PL 80.36 Item 16.



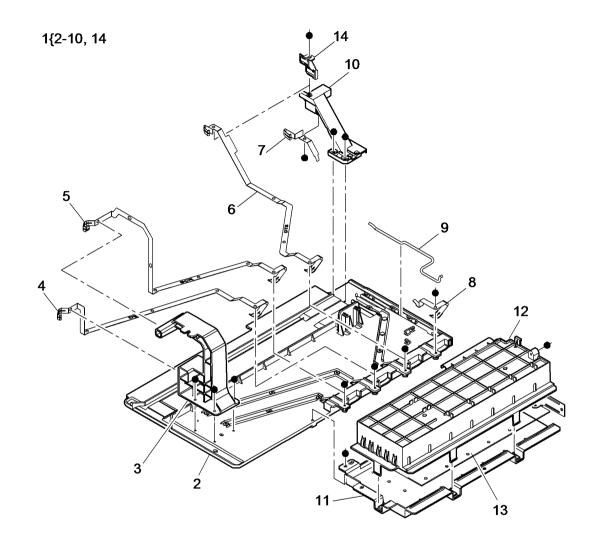
PL 80.36 Tray 4 Transport Assembly

| . – •• | - · | - |
|----------|----------------|--|
| Item | Part | Description |
| 1 | _ | Jam clearance door (P/O PL 80.36 Item 11) |
| 2 | - | Takeaway roll assembly (P/O PL 31.12 Item 8) (REP 80.26) |
| 3 | - | Takeaway roll bearing (P/O PL 31.12 Item 8) (REP 80.26) |
| 4 | - | Clutch drive (P/O PL 80.36 Item 16) (REP 80.31) |
| 5 | - | Pulley (P/O PL 80.36 Item 16) (REP 80.31) |
| 6 | - | Drive belt (P/O PL 80.36 Item 16) (REP 80.31) |
| 7 | - | Drive coupling (P/O PL 31.12 Item 8) |
| 8 | 859K04280 | Idler roll assembly (metal shaft) (REP 80.26) |
| - | - | Idler roll assembly (plastic shaft) (Not Spared) (REP 80.26) |
| 9 | _ | Spring (P/O PL 80.36 Item 11) |
| 10 | _ | Base (P/O PL 80.36 Item 11) |
| 11 | 038K24380 | Tray 4 transport assembly (REP 80.24) |
| 12 | - | Transport gear pulley (P/O PL 80.36 Item 16) (REP 80.23) |
| 13 | _ | HCF transport motor (MOT81-045) (P/O PL 80.36 Item 16) (REP 80.22) |
| 14 | _ | Spring (P/O PL 80.36 Item 16) (REP 80.31) |
| 15 | _ | Pulley flange (P/O PL 80.36 Item 16) (REP 80.31) |
| 16 17 | 604K97740 - | Transport motor and drives kit Tray 4 transport brace (P/O PL 80.36 Item 11) |



PL 90.10 High Voltage Power Distribution Assembly

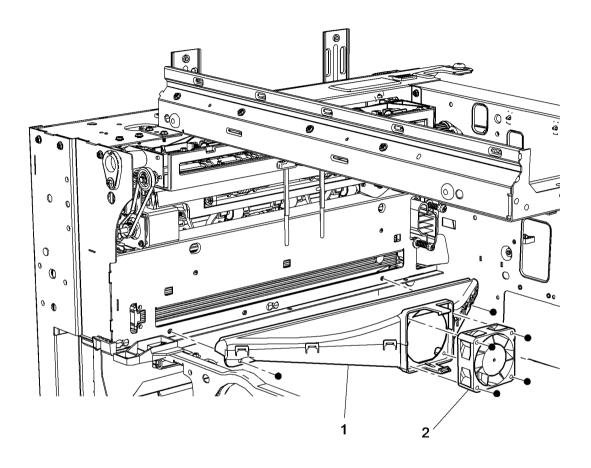
| | | _ |
|------|-----------|-----------------------------------|
| Item | Part | Description |
| 1 | 859K01027 | HVPS tray assembly (REP 90.3) |
| 2 | _ | Tray (P/O PL 90.10 Item 1) |
| 3 | _ | Front track support (P/O PL 90.10 |
| | | Item 1) |
| 4 | _ | Track (DEV) (P/O PL 90.10 Item 1) |
| 5 | _ | Track (BCR) (P/O PL 90.10 Item 1) |
| 6 | _ | Track (DTS) (P/O PL 90.10 Item 1) |
| 7 | _ | Track (BTR 1) (P/O PL 90.10 Item |
| | | 1) |
| 8 | _ | Track (BTR 2) (P/O PL 90.10 Item |
| | | 1) |
| 9 | _ | Track cable (P/O PL 90.10 Item 1) |
| 10 | _ | Rear track support (P/O PL 90.10 |
| | | Item 1) |
| 11 | _ | HVPS bottom cover (Not Spared) |
| 12 | _ | HVPS top cover (Not Spared) |
| 13 | _ | HVPS (REF: PL 1.10 Item 3) |
| 14 | _ | Track cover (P/O PL 90.10 Item 1) |



W-8-0036-A

PL 90.15 Print Cartridge Cooling

| ltem | Part | Description |
|------|-----------|-------------------------------|
| 1 | _ | Print cartridge fan duct (Not |
| | | Spared) |
| 2 | 127E17991 | Print cartridge fan |

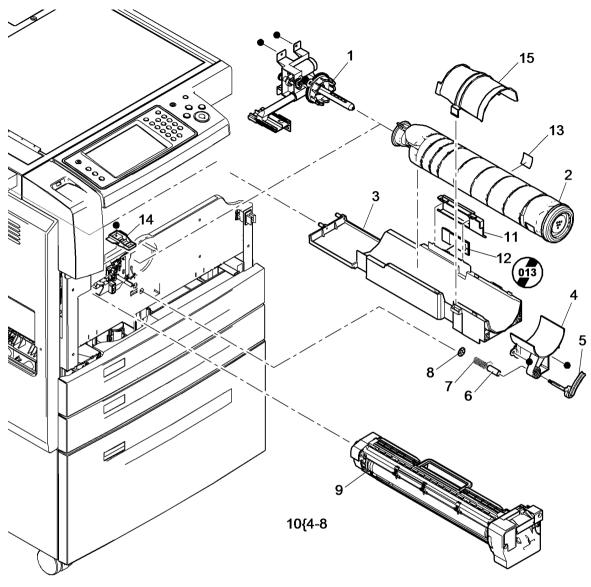


W-8-0017-A

PL 90.17 Toner/Print Cartridges

| | | <u> </u> |
|------|-----------|------------------------------------|
| Item | Part | Description |
| 1 | 094K05506 | Toner dispense module (REP 90.1) |
| 2 | _ | Toner cartridge (REF: PL 26.11 |
| | | Item 3) |
| 3 | _ | Toner cartridge housing (Not |
| | | Spared) |
| 4 | _ | Latch housing (P/O PL 90.17 Item |
| | | 10) |
| 5 | _ | Toner dispense latch (P/O PL 90.17 |
| | | Item 10) |
| 6 | _ | Sleeve (P/O PL 90.17 Item 10) |
| 7 | _ | Spring (P/O PL 90.17 Item 10) |
| 8 | _ | Push on fastener (P/O PL 90.17 |
| | | Item 10) |
| 9 | 013R00669 | Print cartridge |
| 10 | 848K94673 | Latch housing assembly (REP |
| | | 90.2) |
| 11 | _ | Cover (Not Spared) |
| 12 | 960K25380 | Toner cartridge PWB (W/O TAG |
| | | 013) |
| 13 | _ | Toner cartridge CRUM (Not |
| | | Spared) |
| 14 | 869E05955 | Latch bracket |
| 15 | _ | Toner cartridge guide (Not Spared) |
| | | 3 3 1 1 (1 1 1 1 1) |

NOTE: Refer to ADJ 90.1 for xerographics cleaning.



W-8-0047-B

| Com | mon Ha | ırdware | AX - | Screw M3x14 Machine |
|------|--------|--|--------------|--|
| Item | Part | Description | AY – | Screw M3x18 Self Tapping |
| A | _ | Screw M3x6 Taptite (Zinc finish) | AZ – | Washer M4 |
| В | _ | Screw M4x8 Taptite | BA – | Screw M4x16 Machine |
| C | _ | Screw M4x12 Self Tapping | BB - | Screw M4x5 Machine |
| D | _ | Screw M3.9.5 Taptite | BC - | Screw M3x10 Machine |
| E | _ | Screw M3x8 Taptite | BD – BE – | Screw M3x6 Machine |
| F | _ | Screw M3x7.5 Taptite | BE – BF – | Screw M4x7.5 Machine |
| G | _ | Screw M4x12 Self Tapping | | Screw M3x5.5 Machine |
| H | _ | Screw M3x4.5 Machine | BG – BH – | Washer M3 |
| ï | _ | Screw M4x16 Self Tapping | ъп – ВI – | Spring Washer M3 |
| J | _ | Screw M3x14 Self Tapping (Countersunk) | ВJ – ВЈ – | Screw M3x6 Machine |
| ĸ | _ | Screw M3x16 Self Tapping | BK – | Screw M3x22 Self Tapping |
| L | _ | Screw M4x10 Self Tapping | BL – | Retaining Ring (Skiffy) M7 Circlip M10 |
| M | _ | E-Clip M4 | BM - | Screw M3x8 Machine |
| N | _ | E-Clip M5 | BN - | Screw M4x8 Self Tapping |
| 0 | _ | Screw M4x12 Self Tapping | BO - | 0 |
| P | _ | Screw M4x12 Taptite | ВО – ВР – | Screw M3x4 Machine (Counterpunk) |
| Q. | _ | Screw M4x11 Self Tapping | BQ - | Screw M3x4 Machine (Countersunk) Screw M3x16 Machine |
| Ř | _ | KL Clip M6 | BR - | Screw M3x9.5 Self Tapping |
| S | _ | Screw M4x30 Taptite | BT - | Screw M4x8 Self Tapping |
| Ť | _ | Screw M3x10 Self Tapping | BU - | Screw M3x5.5 Self Tapping |
| Ü | _ | Screw M3x10 Taptite | BV - | Screw M4x7 Taptite |
| V | _ | Screw M3x6 Taptite | BW - | Screw M3x6 Self Tapping |
| W | _ | Screw M3x16 Self Tapping | BX - | Screw M3x8 Self Tapping |
| Χ | _ | Screw M3x6 Self Tapping | BY - | Screw M4x8 Self Tapping |
| Υ | _ | E-Clip M8 | BZ – | Screw M4x16 Taptite |
| Z | _ | E-Clip M4 | CA - | Screw M3x8 Self Tapping |
| AA | _ | E-Clip M7 | CB - | Screw M4x10 Self Tapping |
| AB | _ | Screw M3x25 Self Tapping | CC - | Screw M4x8 Self Tapping |
| AC | _ | Screw M3x4 Taptite | CD - | Screw M3x10 Self Tapping |
| AD | _ | E-Clip M6 | CE - | Screw M3x12 Self Tapping |
| ΑE | _ | Washer M8 | CF - | Screw M4x5 Taptite |
| AF | _ | Spring Washer M6 | CG – | Circlip M6 |
| AG | _ | Screw M3.5x10 Self Tapping | CH - | Screw M3x10 Machine |
| AH | _ | Circlip M5 | CI – | Screw M4x5 Machine |
| Al | _ | Circlip M8 | CJ – | Screw M3x11 Self Tapping |
| AJ | _ | Star Washer M4 | CK - | E-clip M2.5 |
| AK | _ | Screw M4x9.5 Machine | CL – | Washer M5 |
| AL | _ | Screw M5x18 Self Tapping | CM - | Screw M4x9 Self Tapping |
| AM | _ | Star Washer M3.5 | CN - | Screw M3x14 Self Tapping |
| AN | _ | Screw M3.5x5.5 Machine | CO - | Screw M3x8 Self Tapping |
| AO | _ | Screw M3.5x6 Machine | CP - | Screw M4x15 Taptite |
| AP | _ | Screw M5x11 Taptite | CQ - | Spring Washer M8 |
| AQ | - | Screw M3x8 Taptite | CR - | Screw M3x8 Self Tapping |
| AR | - | Screw M4x8 Machine | CS - | Screw M4x8 Machine |
| AS | _ | Screw M4x10 Self Tapping | CT - | Screw M3x5.5 Machine |
| AT | - | Screw M4x10 Self Tapping | CU - | Screw M3x9 Self Tapping |
| AU | - | Screw M3x5 Machine | CV - | Nut M3 |
| AV | - | E-Clip M3.5 | CW - | Nut M3 |
| AW | - | Screw M3x5.5 Taptite | CX - | Screw M4x6 Machine |

| CY | - | Screw M4x11.5 Taptite |
|----|---|---|
| CZ | - | Screw M3x7.5 Taptite |
| DA | - | Screw M4x7 Self Tapping |
| DB | - | Screw M3x6 Self Tapping |
| DC | - | Screw M3x12 Self Tapping |
| DD | - | Screw M5x12 Self Tapping |
| DE | - | Circlip M7 |
| DF | - | Screw M3x6 Machine |
| DG | _ | Screw M3x7.5 Self Tapping |
| DH | _ | Screw M4x7 Self Tapping |
| DI | _ | Screw M4x34 Self Tapping |
| DJ | - | Screw M4x16 Self Tapping |
| DK | - | Screw M4x7 Self Tapping |
| DL | - | Screw M4x6 Taptite |
| DM | - | M3 Star Washer |
| DN | - | Screw M4x6 Machine |
| DO | - | Screw M3x6 Self Tapping |
| DP | - | M3 Nut (Washer Head) |
| DQ | - | Screw M4x11 Machine |
| DR | - | Washer M8 (Nylatron) |
| DS | - | Screw M3 x 8 |
| DT | _ | Screw M3x17 Taptite |
| DU | - | Screw M2.5x8 Taptite |
| DV | - | Screw M3.5x10 Torx |
| DW | - | Screw M3.5x10 Taptite |
| EA | - | Screw M4x6 Machine |
| EB | - | Screw M4x10 Machine |
| EC | _ | Screw M4x8 Machine |
| EF | _ | Screw M5x6 machine |
| EH | _ | Pivot pin M4X10 Hex Head |
| ΕI | _ | Nylon bearing |
| EJ | _ | 6mm x 10mm x 13mm bush (bronze) |
| ET | _ | M4 x 5.5 Screw/Machine/Pozi/Wash Hd Brass |
| EU | _ | M3x16 Screw/Machine/Pozi/Pan Hd |
| EV | _ | KL Clip M4 |
| EW | _ | Screw M4 x 25 Self Tapping |
| EX | _ | KL Clip M7 |
| ZZ | _ | E-clip M3 |
| | | · |

6 General Procedures/Information

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GP 1 Service Mode

Purpose

This procedure describes how to enter and exit service mode and the available service routines.

NOTE: When service mode is entered, all existing copy jobs are cancelled and an 'Offline' screen message is displayed.

How to Enter Service Mode

NOTE: Entry to service mode is not possible with an XEIP application running. To exit the XEIP application, press the Services Home button.

NOTE: Do not enter service mode if the Replace Toner Cartridge dialog box is displayed. Entry to service mode with the dialog box displayed will stop the machine printing test patterns. Confirm either yes or no, then enter service mode.

- 1. Switch on the machine, GP 14.
- 2. When the machine is ready, press and hold the 0 (zero) button for 7 seconds, then simultaneously press the Start button, then release both the buttons.
- 3. Enter the passcode, 6789. Press the Enter button on the UI.

NOTE: Five incorrect entries cause the entry screen to lock for 3 minutes.

- Select the relevant tab:
 - Service Info Tab.
 - Diagnostics Tab.
 - Adjustments Tab.
 - Maintenance Tab.
 - Call Closeout Tab.

Service Info Tab

The service info routines are used to track faults that have occurred in the machine. Refer to Table 1.

Table 1 Service Info Tab

| Routine | Description | |
|---------|-------------------|--|
| dC104 | Usage Counters | |
| dC108 | Software Version | |
| dC120 | Fault Counters | |
| dC122 | Fault History | |
| dC135 | CRU / HSFI Status | |

Diagnostics Tab

The diagnostic routines are used to test specific areas of the machine. Refer to Table 2.

Table 2 Diagnostics Tab

| Routine | Description |
|---------|----------------|
| dC140 | Analog Monitor |

Table 2 Diagnostics Tab

| Routine | Description | |
|---------|---------------------------|--|
| dC304 | LED Print Head Validation | |
| dC312 | Network Echo Test | |
| dC330 | Component Control | |
| dC612 | Print Test Pattern | |

Adjustments Tab

Adjustment routines are used to modify the set-up or to calibrate specific areas of the machine. Refer to Table 3.

Table 3 Adjustments Tab

| Routine | Description | Description | |
|---------|------------------------------|-----------------|--|
| dC131 | NVM Read/Write | | |
| dC301 | NVM Initialization | | |
| dC361 | NVM Save and Restore | | |
| dC604 | Registration Setup | | |
| dC608 | Document Feeder Registration | | |
| dC609 | Document Glass Registration | | |
| dC610 | CCD Lamp Profile Adjustment | | |
| dC945 | IIT Calibration | IIT Calibration | |

Maintenance Tab

Refer to Table 4.

Table 4 Maintenance Tab

| Routine | Description | |
|---------|-------------------|--|
| dC120 | Fault Counters | |
| dC122 | Fault History | |
| dC132 | Serial Number | |
| dC134 | Market Region | |
| dC135 | CRU / HSFI Status | |
| dC136 | Service Plan | |
| dC137 | PagePack | |

Call Closeout Tab

NOTE: Do not exit service mode until the machine has recovered from all diagnostic routines.

- Select the Call Closeout tab to exit service mode.
- 2. If necessary, select Reset Counters.
- Select Exit and Reboot.

Service Copy Mode

Service copy mode provides access to the machine that is greater than that of a user, but less than that of the System Administrator. This mode allows the CSE to perform a number of checks and run copies without compromising the customer's security settings. This mode can be used if the Administrator user name and passcode are not at the default, and the Administrator is not available to enter the admin passcode. Perform the steps that follow:

- Press and hold the 0 (zero) button for 5 seconds, then simultaneously press the Start button.
- 2. Enter the passcode 2732, press the Enter button on the UI.

NOTE: The tools available in this mode are a subset of those available in Administrator mode. CSE service copy mode remains active until the login/logout button is pressed again. When finished with tools, always log out of Administrator mode by pressing the Login/Logout button and confirming logout.

GP 2 Fault Codes and History Files

Purpose

To describe access to fault history information and explain the fault code structure.

- History files can be accessed from the UI using the Machine Status Button or from service mode under the Service Info tab. Refer to Fault Data Available from Service Mode.
- · For information on fault codes, refer to Function, Fault, Component Codes.
- For information on status codes, refer to OF4 Status Codes and Messages RAP.
- For information on power on self test (POST), refer to OF2 POST Error RAP.

Machine Status Button

The most recent fault and status codes can be displayed on the UI by pressing the Machine Status button. Select the Active Messages tab on the UI then select the appropriate option:

- Fault History.
- From the pulldown menu:
 - Faults and Alerts.
 - Faults.
 - Alerts.

Fault Data Available from Service Mode

The Service Info tab in service mode (GP 1) gives access to the fault history options that follow:

- Fault Counters (dC120) Displays the titles of all faults separated into chains, sortable by chain or frequency.
- Fault History (dC122) Displays the last 40 faults. Selecting a fault will display it in detail.

Function, Fault, Component Codes

Refer to:

- Table 1 Function and fault code prefixes. Also known as the chain code.
- Table 2 Finisher fault code and status code suffixes.

For example. displayed code 373-215-00, Tray 3 hoist failure:

- 3 Indicates that this is a Discovery 2 software platform fault code. All WorkCentre 5945/ 5955 fault codes begin with 3.
- 73 The fault is located in chain 7, 'Paper supply and tray 3'. Refer to Table 1.
- 215 This is the link code. These numbers have no significant meaning for the CSE.
- 00 This is the extension code. These numbers have no significant meaning for the CSE.

NOTE: Where possible, the component related fault codes are the same as the component control codes.

Table 1 Function and fault code prefixes

| Chain Code | Function | |
|-------------------|---------------------------------------|--|
| 01 | Standby power | |
| 02 | User interface | |
| 03 | Machine run control | |
| 05 | Document transportation | |
| 10 | Fusing and copy/print transportation | |
| 12 | Finishers | |
| 16 | Network controller | |
| 19 | Video image manipulation | |
| 20 | Fax | |
| 22 | System Errors | |
| 6X | LED print head, scanners | |
| 7X (X = tray No.) | Paper supply (paper trays and bypass) | |
| 8X | Paper feed and transport | |
| 9X | Xerographics | |
| 95 | Software upgrade errors | |

Table 2 Finisher fault code and status code suffix numbers

| Suffix No. | Finisher Identifier |
|------------|---------------------|
| 110 | 2K LCSS |
| 150 | LVF BM |

NOTE: The finisher fault and status code suffix numbers are not normally visible.

GP 3 Service Information

Purpose

To provide machine hardware and software information.

Service Information From The Service Mode Screen

Enter service mode, GP 1. Select the Service Info tab. This gives the options that follow:

- Information Routines.
 - dC104 Usage Counters.
 - dC108 Software Version.
 - dC120 Fault Counters.
 - dC122 Fault History.
 - dC135 CRU/HFSI Status.
- General Information.
 - Product Code.
 - Serial Number.
 - Total Images.
 - Images since Last Call.
 - Software Set Version.
 - IP Address.

Service Information From The UI Machine Information Tab

Press the Machine Status (i) button to the left of the UI to display the Machine Information tab. This gives the options that follow:

- General Information.
 - Customer Support.
 - Website: www.xerox.com.
 - Model.
 - Serial Number. Refer to dC132 Serial Number.
 - Current System Software.
 - 000.00.000
 - IPv4 Address.
 - IPv6 Address.
 - Host Name.
- Paper Tray Status.
- Information Pages.
- Installed Options.
- Maintenance Assistant.

Machine Serial Number

To locate the machine serial number, open the left door, the serial number plate is located on the upper left frame of the machine.

The serial number for the XC markets is in the format: XXX ######. Where XXX is the product code (see Product Code) and ###### is the serial number.

The serial number for the XE markets is in the format: MMM######C. MMM is the manufacturing location code, ###### is the serial number and C is the check digit, for example 2327020103.

Product Code

The machine product codes are shown below.

Malaysia built machines:

- X75: 45-55ppm, SPDH, 4 trays, centre output tray, (50Hz).
- A0M: 45-55ppm, SPDH, 4 trays, horizontal transport, (50Hz).
- X76: 45-55ppm, SPDH, 4 travs, centre output trav. (60Hz).
- A2M: 45-55ppm, SPDH, 4 trays, horizontal transport, (60Hz).

Singapore built machine:

A2MN: 45-55ppm, SPDH, 4 trays, horizontal transport, (60Hz).

Secondary Build Upgrades

- X49: 2K LCSS
- X52: LVF BM

Other Serial Number Locations

The SPDH module. Lift up the SPDH top cover assembly. The serial number plate is located on the inside of the top cover on the outboard side.

The scanner module. Perform steps 1 to 5 of REP 60.3 Top Cover Removal. The serial number label is located on the centre front of the scanner top cover.

The IIT module (scanner module with SPDH module). Remove the rear cover, PL 28.10 Item 1. The serial number plate is located on the underside of the scanner at the rear/left.

The 2K LCSS module. Un-dock the 2K LCSS. Refer to REP 12.13-110. The serial number plate is located in the base pan of the 2K LCSS.

The LVF BM module. Undock the LVF BM module. Refer to REP 12.13-150. The serial number plate is located on the booklet tamper assembly, PL 12.380 Item 1.

GP 4 Machine Software

Purpose

To provide machine software information and explain the software loading procedures.

Description

Software sets are compilations of the various software modules, and together with a software compatibility database (SCD) are bundled into a DLM file.

Refer to the items that follow for additional information about machine software:

- Modules.
- Software Compatibility Database (SCD).
- Common Upgrade Behaviour.
- Software Loading Procedures.
- Normal Software Loading Procedure.
- AltBoot Software Loading Procedure.
- Forced AltBoot Software Loading Procedure.

Modules

A software module is defined as a programmable piece of software existing as a file in its own right. Software modules reside on hardware modules.

Software Compatibility Database (SCD)

The SCD is used to describe the machine system software.

The SCD comprises of the system software version in the format WorkCentre_5945-5955_system-sw#(AAa)(PPS)(TTY)(DDD)(RR)#.dlm and a list of software versions for the different modules.

The description of the system software file name is:

- AA major architecture release number (range 00 to 24).
- a minor architecture release number (range 0 to 9).
- PP product code (range 00 to 24).
- S service maintenance pack (SMP) release number (range 0 to 9).
- TT release type (range 0 to 24).
- Y release year (range 0 to 9).
- DDD release day, in the year (range 001 to 366).
- RR daily revision number (range 00 to 99).

NOTE: The system software version is displayed on the UI under Machine Details and on the Service Info screen in service mode.

The primary function of an SCD is to ensure that all software on the machine is compatible.

Common Upgrade Behaviour

A software upgrade is requested if a new hardware module is installed which has an earlier or later software version.

When an upgrade has been initiated, the machine will reboot with all modules in upgrade mode. Progress and errors are displayed on the UI. When the upgrade is complete, the machine will reboot.

When a machine is switched on, the SBC PWB module compares its SCD with the software in the hardware modules. If necessary, a software upgrade or downgrade is instigated by the SBC PWB module.

NOTE: If a component is installed that has a later version of software than the software set on the SBC PWB module, at machine startup the software on the new component is downgraded.

The SCD is updated on successful completion of the upgrade.

Software Loading Procedures

Loading of machine software can be initiated either:

- · locally from a PWS or USB flash drive.
- remotely via a network connection.

There are various methods of loading the machine software for the Workcentre 5945/5955 machines. Refer to Table 1 to select the appropriate procedure.

Table 1 Software loading procedures

| Software Upgrade Procedure Type | Software Upgrade Application |
|---|---|
| Software Loading Via the Customer's Network | Use on a good working machine. |
| Software Loading From the PWS | Use on a good working machine. |
| Software Loading From a USB Flash Drive | Use to only upgrade software on a good working machine. See above Note. |
| PWS AltBoot Procedure | Use as directed on a faulty machine. |
| USB AltBoot Procedure | Use as directed on a faulty machine. |
| USB Forced AltBoot Procedure | Use as directed on a faulty machine. |
| PWS Forced AltBoot Procedure | Use as directed on a faulty machine. |

Software Loading Progress

During the software loading procedure, a progress screen is displayed on the UI, Figure 10. The display has features that follow:

- A progress bar is assigned to each of the hardware modules.
- For the upgrade of each hardware module to be successful, the green box with a white tick must be displayed. During the upgrade, one of the conditions that follow is displayed:
 - Green progress bar, an upgrade is in progress.
 - Green box with a white tick, an upgrade has completed.
 - Red progress bar, a module has failed to be upgraded.

Normal Software Loading Procedure

Use this procedure to load software onto a good, working machine.

Initial Requirements

Before software is loaded, ensure that the machine is in a fully operational condition. Any
active faults or jams must be resolved before loading software.

NOTE: The procedure will take approximately 35 minutes.

 If the software loading procedure fails, enter dC122 Fault History. Check for chain 95 fault codes. Perform the relevant RAPs.

Procedure

There are 3 methods to load software. Perform the relevant procedure:

- Software Loading Via the Customer's Network.
- Software Loading From the PWS.
- Software Loading From a USB Flash Drive.

Software Loading Via the Customer's Network

The software is loaded via the customer's network. As the software loading instructions are subject to change a software installation instruction .PDF file is available at the same location as the software. Refer to the .PDF file for the software loading procedure.

The progress of the software loading procedure is displayed on the UI. For more information, refer to Software Loading Progress.

If the machine does not start the software loading procedure, check the items that follow:

- The relevant cabling to the machine.
- The functionality of the PC being used to perform the procedure.

Software Loading From the PWS

Perform the steps that follow:

- 1. Print a configuration report.
- Ensure that Windows firewall and wireless network connectivity on the PWS are turned off.
- Set the proxy server on the PWS. Refer to GP 34 How to Set the IP Address of the PWS. Be aware of the points that follow:
 - Before changing the proxy server settings, record the original IP address and subnet mask. The original settings are reset at the end of this procedure.
 - Refer to the configuration report. Set the IP address of the PWS one number higher than the machine. For example, if the IP address of the machine is 192.168.196.112, set the IP address of the PWS to 192.168.196.113.
 - Refer to the configuration report. Set the subnet mask of the PWS to the same as the subnet mask of the machine.
 - A default gateway setting is not required.
 - If any settings are changed, reboot the PWS.
- Switch on the machine, GP 14.
- 5. Disconnect the ethernet cable from the machine.
- Connect the ethernet crossover cable, PL 26.10 Item 6 between the machine and the PWS.

NOTE: The machine has a network 802.1x Authentication option. If this option is enabled the PWS will not connect to the machine. To make a successful connection, perform the steps that follow:

- a. Enter Customer Administration Tools, GP 24.
- b. Press the Machine Status button.
- c. Select Tools / Advanced Settings / 802.1X.

- d. Disable 802.1X.
- 7. If the web browser on the PWS is set to use a proxy server, it will not connect to the machine's web page. Perform the steps that follow:
 - Open the web browser on the PWS.
 - Select Tools, then select Internet Options.
 - c. Select the Connections tab.
 - d. Click on the LAN Settings button. The LAN settings dialog box will now be displayed.
 - e. The 'Use a proxy server for your LAN' box should not be checked.
- 8. Open the web browser. Enter the machine's IP address in the web browser's Address field, then click on the enter key. The machine's web page will open.

NOTE: Refer to the configuration report for the machine's IP address.

- 9. In the machine's web page, click on the Properties tab.
- 10. Login as the Administrator, i.e. Login: Admin. Password: 1111 (default).
- 11. Open the General Setup folder, then the Machine Software folder.
- 12. Select Manual Upgrade.

NOTE: If necessary, enable manual software upgrades.

- 13. Click on the browse button in the middle of the screen.
- 14. Browse to the correct location of the DLM file, then click on open.
- 15. Click on the Install Software button.
- 16. The DLM is displayed in the machine's print queue. The upgrade begins in approximately 10 minutes. The progress of the software loading procedure will be displayed on the UI. For more information, refer to Software Loading Progress.
- 17. When the upgrade has completed, Figure 11, the machine will reboot automatically.

NOTE: When the machine reboots, the connection to the machine's web page is lost.

- 18. After the machine has rebooted, a configuration report will be printed. Check the software version against the software version in the machine details screen on the UI.
- 19. Compare the configuration reports. Ensure that the configuration report generated after the upgrade shows the same machine configuration as before the upgrade.
- If the proxy server setting on the PWS was changed, return the setting to the original value.
- Connect the customer's network cable to the machine. Switch off, then switch on the machine, GP 14.

Software Loading From a USB Flash Drive

NOTE: The Software Loading From a USB Flash Drive procedure can only be used to upgrade machine software to a higher version. The procedure will fail and generate a fault code if an attempt is made to install machine software of the same version. If it is necessary to reload machine software of the same version via a USB flash drive, the AltBoot Software Loading Procedure must be used.

Perform the steps that follow:

Create a top level folder on the USB flash drive named upgrade (this is not case sensitive).

Copy the WorkCentre_5945-5955_system-sw#aaappsttydddrr#.dlm file from the system software CD into the upgrade folder of the USB flash drive.

NOTE: Ensure there is only 1 file in the upgrade folder.

NOTE: Ensure the Windows "safely remove hardware device" process is followed, before removing the USB drive.

- If possible, complete or delete all pending print jobs. If the prints jobs cannot be deleted, warn the customer that all pending jobs will be lost.
- Check the release notes and the current software loaded on the machine. Ensure that the upgrade can be applied.
- 5. Check that the USB ports are enabled. Perform the USB Port Security Setting Check.
- 6. Connect the USB flash drive into any of the USB ports.

NOTE: It is not necessary to switch off the machine to perform a software upgrade. Occasionally the USB flash drive will be incompatible with the machine. Replace the USB flash drive with a Xerox approved model. Restart the process.

- 7. The Software Upgrade start screen is displayed, Figure 9.
- 8. The upgrade will begin and the progress screen will open, Figure 10.
- The system upgrade process should complete after approximately 5 minutes, Figure 11, and the machine will come to a ready state.
- If the system upgrade process fails, perform an AltBoot. Refer to AltBoot Software Loading Procedure.
- 11. The machine will reboot several times before returning to a ready state. The machine may also display the Upgrade Progress screen, Figure 10. If the power on failure screen is displayed, switch off, then switch on the machine, GP 14.
- 12. After the software has upgraded, a software upgrade report will be printed.

AltBoot Software Loading Procedure

Use this procedure to load software onto a faulty machine. Only use this procedure if directed.

If the software loading procedure fails, enter dC122 Fault History. Check for chain 95 fault codes. Perform the relevant RAPs.



The AltBoot software loading procedure erases the SMart eSolutions and the wireless settings. These will be automatically reloaded at the end of the AltBoot procedure.

NOTE: AltBoot upgrades should be performed with the device in wired connectivity mode. Upgrades attempted while the device is in wireless mode may result in unpredictable network/ device behaviour that will require a reset to default configuration action, then a device reboot in order to resolve issues.

NOTE: If the optional features, McAfee Integrity Control or XPS fail automatically to reload after an AltBoot, refer to GP 17 How to Re-Enter Optional Feature Installation Keys.

There are 2 methods of performing an AltBoot. Perform the relevant procedure:

- USB AltBoot Procedure.
- PWS AltBoot Procedure.

USB AltBoot Procedure

Hardware requirements:

USB Flash drive.

Software requirements:

The DLM file to be loaded.

Perform the steps that follow:

- Create a top level folder on the USB Flash drive named AltBoot.
- Copy the WorkCentre_5945-5955_system-sw#aaappsttydddrr#.dlm file from the system software CD into the AltBoot folder of the USB flash drive.

NOTE: If there is more than 1 version of a DLM file in the AltBoot folder on the USB flash drive the machine will always access the latest version.

- 3. If possible, perform an NVM save. Refer to dC361 NVM Save and Restore.
- 4. Check that the USB ports are enabled. Perform the USB Port Security Setting Check.
- 5. Switch off the machine, GP 14.
- Connect the USB flash drive to the front USB port or either of the 2 USB ports on the right of the SBC PWB module.
- Switch on the machine GP 14. The Software Upgrade start screen will display on the UI, Figure 9.

NOTE: If the Upgrade Failed screen, Figure 13, displays at this time, it is an indication of hard disk drive failure. Refer to the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP.

After approximately 3 minutes, the upgrade will begin and the Progress screen will open, Figure 10.

NOTE: If the Progress screen is not displayed after 5 minutes, restart the process.

- 9. The AltBoot process should complete after approximately 5 minutes and the AltBoot Complete screen will open, Figure 12. Follow the on screen instructions.
- If the AltBoot process fails, the AltBoot Failed screen will open, Figure 13. Follow the onscreen instructions. Restart the procedure and refer to Troubleshooting as necessary.
- 11. The UI displays the Data Encryption/Decryption progress screen, Figure 14.

NOTE: Do not switch off the machine until directed to on the UI. During the reboot, the hard disk drive is encrypted. Switching off the machine can cause only partial encryption of the hard disks partitions. The AltBoot process may need to be re-run if power is removed at this step.

- 12. Before returning to a ready state, the machine will reboot several times as the previous settings are reloaded. The previous settings message screen will display. If a power on failure screen appears, switch off, then switch on the machine, GP 14.
- 13. Check that the software set has been installed. Refer to the printed software upgrade report or by pressing the Machine Status button.
- 14. Perform a NVM restore. Refer to dC361 NVM Save and Restore.
- 15. Switch off, then switch on the machine, GP 14.

PWS AltBoot Procedure

Hardware requirements:

Data cable, PL 26.10 Item 24.

• Ethernet crossover cable, PL 26.10 Item 6.

Software requirements:

- sirius.ulmage Linux kernal file.
- sirius ramdisk.uboot Linux root file system file.
- The DLM file to be loaded.

NOTE: The above files can be located in GSN library number 14151 within the Altboot Support Files folder.

Perform the steps that follow:

- 1. Print a configuration report.
- 2. If possible, perform an NVM save. Refer to dC361 NVM Save and Restore.
- 3. Switch off the machine, GP 14. Disconnect the ethernet cable from the machine.
- Prepare the PWS:
 - Ensure that Windows firewall and wireless network connectivity on the PWS are turned off.
 - b. Set the proxy server. Refer to GP 34 How to Set the IP Address of the PWS. Be aware of the points that follow:
 - Before changing the proxy server settings, record the original IP address and subnet mask. The original settings are reset at the end of this procedure.
 - Set the IP address of the PWS to 192.168.0.2.
 - Set the subnet mask of the PWS to 255,255,255.0.
 - A default gateway setting is not required.
 - If any settings are changed, reboot the PWS.
- 5. Disconnect the ethernet cable from the machine.
- Connect the crossover ethernet cable from the PWS network port to the machine network port. Connect the data cable from the PWS USB port to the machine data cable connector, Figure 1.

NOTE: When connecting the data cable, ensure that the ground connector (marked GND) is aligned with ground symbol on the SBC module. Also, ensure that the data cable terminals are not misaligned with the PJ44 pins.

- 7. Start the PWS AltBoot tool.
- Browse to, and highlight the folder that contains the upgrade files, Figure 2. Select OK.

NOTE: During the PWS AltBoot procedure the COM port gets set automatically to an available port between 1 and 9.

- If a Connection Failed window appears, this may be because there is not a suitable COM port available on the PWS.
 - If ports 1 to 9 on the PWS are not available, one of the ports will need to be freed to enable auto connection to occur.
- Switch on the machine, GP 14. After approximately 10 seconds, the transfer of the image and uboot files will begin.
- 11. After file transfer, the settings menu is displayed in the terminal window, Figure 3.

NOTE: Check that the 'Received packet' line is displayed and that the IP address is set 1 digit away from the packet was received from address.

Press 'y' at the prompt and continue. If the valid netmask is not set, press 'n' and change it to the value shown in Figure 3.

- 12. From the next menu, Figure 4, select action 5, Install ESS software.
- 13. At the proceed prompt, Figure 5, select 'Y'.
- 14. At the second proceed prompt, Figure 6, select 'Y'.
- 15. From the next menu, Figure 7, select option 4, Continue.
- 16. From the next menu, Figure 8, select the correct DLM file to download to the machine. A transfer progress window will then open.
- 17. After the DLM file has been downloaded to the machine, the Software Upgrade start screen will display on the UI, Figure 9.

NOTE: If the Upgrade Failed screen, Figure 13 displays at this time, it is an indication of hard disk failure. Refer to the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP.

 After approximately 2 minutes, the upgrade will begin and the progress screen will open, Figure 10.

NOTE: If the upgrade process screen is not displayed after 5 minutes, restart the process

- 19. The AltBoot process should complete after approximately 5 minutes, and the AltBoot complete screen will open, Figure 12. Ignore the instruction to remove the USB flash drive, press 0 to continue.
- 20. If the AltBoot process fails, the AltBoot failed screen will open, Figure 13. Follow the onscreen instructions. Restart the procedure. Refer to Troubleshooting as necessary.
- 21. The UI displays the Data Encryption/Decryption progress screen, Figure 14.

NOTE: Do not switch off the machine until directed to on the UI. During the reboot, the hard disk drive is encrypted. Switching off the machine can cause only partial encryption of the hard disks partitions. The AltBoot process may need to be re-run if power is removed at this step.

- 22. Before returning to a ready state, the machine will reboot several times as the previous settings are reloaded. The previous settings message screen will display. If a power on failure screen appears, switch off, then switch on the machine, GP 14.
- Disconnect the data cable and the special crossover ethernet cable from the PWS and the machine.
- 24. Connect the ethernet cable to the machine.
- 25. Check that the software set has been installed. Refer to the printed software upgrade report or by pressing the machine status button.
- If the NVM was saved at the beginning of this procedure, perform a NVM restore. Refer to dC361 NVM Save and Restore.

Forced AltBoot Software Loading Procedure

Use this procedure to load software onto a faulty machine. Only use this procedure if directed.



Do not perform a forced AtlBoot unless absolutely necessary. If a problem occurs during the upgrade, some PWBs could be irretrievably damaged and new components will have to be installed.



The AltBoot software loading procedure erases the SMart eSolutions and the wireless settings. These must be reloaded at the end of the forced AltBoot procedure.

There are 2 methods of performing a Forced AltBoot. Perform the relevant procedure:

- USB Forced AltBoot Procedure.
- PWS Forced AltBoot Procedure.

USB Forced AltBoot Procedure

Hardware requirements:

USB Flash drive.

Software requirements:

- The FORCED UPGRADE file.
- The DLM file to be loaded.

Perform the steps that follow:

- 1. Create a folder named AltBoot (not case sensitive) on a USB Flash drive.
- Locate the FORCED UPGRADE file (file size = 0 KB) in GSN library 14151.
- Unzip, then copy the FORCED_UPGRADE file into the AltBoot folder on the USB Flash drive.
- Copy the DLM file into the AltBoot folder on the USB Flash drive.
- 5. If possible, perform an NVM save. Refer to dC361 NVM Save and Restore.
- 6. Check that the USB ports are enabled. Perform the USB Port Security Setting Check.
- 7. Switch off the machine, GP 14.
- Connect the USB flash drive to the front USB port or either of the 2 USB ports on the right of the SBC PWB module.
- Switch on the machine, GP 14.
- 10. Follow the instructions on the UI until the software loading is complete.
- When the software loading is complete, enter Customer Administration Tools, GP 24.
 Select Tools / Device Settings / General / Revert to Previous Settings. This will reload the customer optional services.

NOTE: If the optional features, McAfee Integrity Control or XPS fail to reload, refer to GP 17 How to Re-Enter Optional Feature Installation Keys.

- 12. Check that the software set has been installed. Refer to the printed software upgrade report or by pressing the machine status button.
- If the NVM was saved at the beginning of this procedure, perform an NVM restore. Refer to dC361 NVM Save and Restore.
- 14. Switch off, then switch on the machine, GP 14.
- If the Forced AltBoot process fails, restart the procedure. Refer to Troubleshooting if necessary.

PWS Forced AltBoot Procedure

Hardware requirements:

- Data cable, PL 26.10 Item 24.
- Ethernet crossover cable, PL 26.10 Item 6.

Software requirements:

- sirius.ulmage Linux kernal file.
- sirius_ramdisk.uboot Linux root file system file.
- The DLM file to be loaded.

NOTE: The above files can be located in GSN library number 14151 within the Altboot Support Files folder.

Perform the steps that follow:

1. Print a configuration report.



The Forced Altboot process will delete all saved nym files.

- If possible, perform an NVM save to a USB flash drive. Refer to dC361 NVM Save and Restore.
- 3. Switch off the machine, GP 14.
- 4. Prepare the PWS:
 - Ensure that Windows firewall and wireless network connectivity on the PWS are turned off.
 - b. Set the proxy server. Refer to GP 34 How to Set the IP Address of the PWS. Be aware of the points that follow:
 - Before changing the proxy server settings, record the original IP address and subnet mask. The original settings are reset at the end of this procedure.
 - Set the IP address of the PWS to 192.168.0.2.
 - Set the subnet mask of the PWS to 255,255,255.0.
 - A default gateway setting is not required.
 - If any settings are changed, reboot the PWS.
- 5. Disconnect the ethernet cable from the machine.
- Connect the crossover ethernet cable from the PWS network port to the machine network port. Connect the data cable from the PWS USB port to the machine data cable connector, Figure 1.

NOTE: When connecting the data cable, ensure that the ground connector (marked GND) is aligned with ground symbol on the SBC module. Also, ensure that the data cable terminals are not misaligned with the PJ44 pins.

- Start the PWS AltBoot tool.
- 8. Browse to and highlight the folder that contains the upgrade files, Figure 2. Select OK.
- 9. If a Connection Failed window appears, Perform the steps that follow:
 - a. Open the PWS Control Panel window.
 - b. Select System Security, then System, then Device Manager.
 - In the Device Manager window select Ports (COM and LPT1). Note the USB serial port (COM#) number displayed.

NOTE: If the COM# is not between 1 and 4, right click on Communications Port (COM#). In the Communications Port (COM#) Properties window select Advanced. In the Advanced settings for COM# window select the COM Port Number dropdown list and select a COM port between 1 and 4.

- Close the Device Manager window and the Control Panel window.
- Click on OK in the Connection Failed window. The SBC Alternate Boot window appears.
- Select Settings, then COM Port Select. Change the COM port number to that noted in step c.
- g. Select OK.
- Switch on the machine, GP 14. After approximately 10 seconds, the transfer of the ulmage and uboot files will begin.
- 11. After file transfer, the settings menu is displayed in the terminal window, Figure 3.

NOTE: Check that the 'Received packet' line is displayed and that the IP address is set 1 digit away from the packet was received from address.

Press 'y' at the prompt and continue. If the valid netmask is not set, press 'n' and change it to the value shown in Figure 3.

- 12. From the next menu, Figure 4, select action 10, Install ESS software for manufacture <Data Encription enabled>.
- 13. At the proceed prompt, Figure 5, select 'Y'.
- 14. At the second proceed prompt, Figure 6, select 'Y'.
- 15. From the next menu, Figure 7, select option 4, Continue.
- From the next menu, Figure 8, select the correct DLM file to download to the machine. A transfer progress window will then open.
- 17. After the DLM file has been downloaded to the machine, the Software Upgrade start screen will display on the UI, Figure 9.

NOTE: If the Upgrade Failed screen, Figure 13 displays at this time, it is an indication of hard disk failure. Refer to the 319-300-00 to 319-310-00 Hard Disk Drive Failure RAP.

18. After approximately 3 minutes, the upgrade will begin and the progress screen will open, Figure 10.

NOTE: If the progress screen is not displayed after 5 minutes, restart the process.

- 19. The Forced AltBoot process should complete after approximately 35 minutes and the Alt-Boot Complete screen will open, Figure 12. Ignore the instruction to remove the USB flash drive, press 0 to continue.
- If the Forced AltBoot process fails, the AltBoot Failed screen will open, Figure 13. Follow
 the on-screen instructions. Restart the procedure. Refer to Troubleshooting as necessary.
- 21. The UI displays the Data Encryption/Decryption progress screen, Figure 14.

NOTE: Do not switch off the machine until directed to on the UI. During the reboot, the hard disk drive is encrypted. Switching off the machine can cause only partial encryption of the hard disks partitions. The Forced AltBoot process may need to be re-run if power is removed at this step.

22. The machine will reboot several times before returning to a ready state. If a power on failure screen appears, switch off, then switch on the machine, GP 14.

- 23. Disconnect the data cable and the special crossover ethernet cable from the PWS and the machine.
- 24. Connect the ethernet cable to the machine.
- 25. Enter Customer Administration Tools, GP 24. Select Tools / Device Settings / General / Revert to Previous Settings. This will reload the customer optional services.

NOTE: If the optional features McAfee Integrity Control or XPS fail to reload, refer to GP 17 How to Re-Enter Optional Feature Installation Keys.

- 26. Check that the software set has been installed. Refer to the printed software upgrade report or by pressing the machine status button.
- 27. If the NVM was saved at the beginning of this procedure, perform an NVM restore. Refer to dC361 NVM Save and Restore.
- 28. Switch off, then switch on the machine, GP 14.

Troubleshooting

Listed below are possible problems that may stop AltBoot software loading:

Possible causes and solutions are:

- Incompatible USB flash drive. Use a Xerox approved model of USB flash drive.
- Corrupt .dlm file. Replace the .dlm file.
- Incorrect spelling of the AltBoot directory on USB flash drive.
- Bad data connection to a HDD. Re-seat the HDD cable, PL 3.22 Item 4.
- Hard disk drive corruption or failure.
- USB port damage. Use a different USB port.
- UI failure. Refer to 302A Touch Screen Failure RAP.
- SBC PWB failure, PL 3.22 Item 3.

When an upgrade fails, the SCD module version that failed to upgrade is printed on the software upgrade report. Refer to Table 2.

NOTE: If an upgrade report is printed that shows an SCD module version that is not listed in Table 2, no service action is necessary.

Table 2 Software module numbers

| Module | SCD Module Versions | Go to |
|-------------|---|--|
| SBC PWB | 0, 1, 2, 8, 9, 11, 140, 214, 216, 217, 226 | 395-000-00 to 395-009-00 SBC Software Upgrade Errors 1 RAP |
| IOT PWB | 40, 41, 42 | 395-040-00 to 395-042-00 IOT Software Upgrade Errors RAP |
| UI PWB | 19 | 395-011-00 UI Software Upgrade Errors RAP |
| Fax | 38 | 395-038-00 Fax Software Upgrade Errors RAP |
| Scanner PWB | 155, 163, 164, 169, 227 | 395-155-00 to 395-169-00 Scanner Software Upgrade Errors 1 RAP |
| SPDH PWB | 228, 229 | 395-228-00, 395-229-00 SPDH Software Upgrade Errors RAP |
| 2K LCSS PWB | 60 | 395-060-00 2K LCSS Software Upgrade Errors RAP |
| LVF PWB | 222 | 395-222-00 LVF Software Upgrade Errors RAP |
| LVF BM PWB | 224 | 395-224-00 LVF BM Software Upgrade Errors RAP |

USB Port Security Setting Check

Perform the steps that follow:

- 1. Login to Customer Administration Tools, GP 24.
- Press the Machine Status button.
- 3. Select the **Tools** tab, the tools pathway menus are displayed.
- 4. Select Security Settings.
- Select USB Port Security.
- 6. If necessary, change the setting to Enabled.
- 7. Exit Customer Administration Tools. If the USB port security setting was changed, switch off, then switch on the machine, GP 14.

NOTE: If it is not possible to access Customer Administration Tools, or the USB flash drive is not recognised, update the software from the PWS.

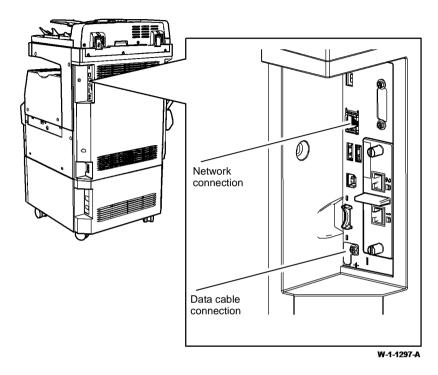


Figure 1 Data cable connection



W-1-1357-A

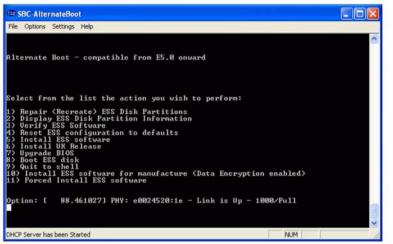
Figure 2 Browse for folder

```
File Options Settings Help

[ 8.613837] LCDFB: Poll period = 199090 microseconds
[ 8.621873] LCDFB: Fh0: "Kerox LCD FB" frame buffer device
[ 8.621873] LCDFB: Kerox LCD FB" frame buffer device
[ 8.62616] LCDFB: Kerox LCD Fame buffer driver 0.0 Sep 22 2009 16:44:47 - 1
oaded
Successfully installed lcdfb Module
[ 8.697409] par: found - Gawain board
[ 8.791195] par.mod...print_mod_params: PAR_FIFO is defined
[ 8.796769] par.mod...print_mod_params: PAR_DEBUG is *NOI* defined
[ 8.721956] par.mod...print_mod_params: PAR_DEBUG_INI is *NOI* defined
[ 8.721956] par.mod...print_mod_params: msg_timeout is 100 ms
[ 8.727722] par.mod...print_mod_params: serious_err_debug_en = 0 (FALSE)
[ 8.748827] par.mod...print_mod_params: serious_err_debug_en = 0 (FALSE)
[ 8.748829] par.mod...par.minit: (6)par: char device driver for the PAR Data
Link Layer 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
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[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit: (6)par: pm: 0.0 250Hz Sep 22 2009 16:44:42
[ 8.762829] par.mod...par.minit:
```

W-1-1358-A

Figure 3 Settings menu



W-1-1359-A

Figure 4 Action menu

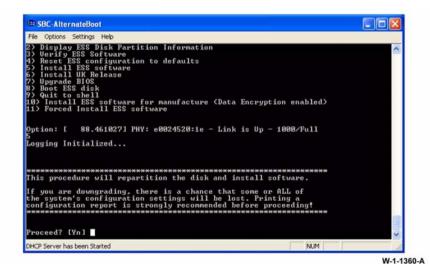
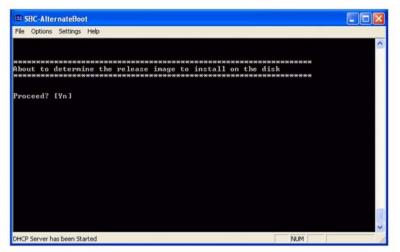


Figure 5 Install confirmation window



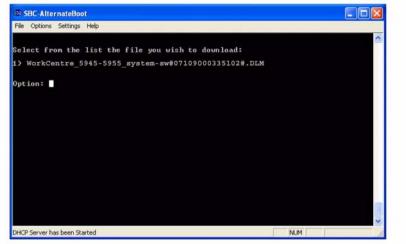
W-1-1361-A

Figure 6 Release image install window



W-1-1362-

Figure 7 Option menu



W-1-1363-A



W-1-1365-A

Figure 8 DLM list

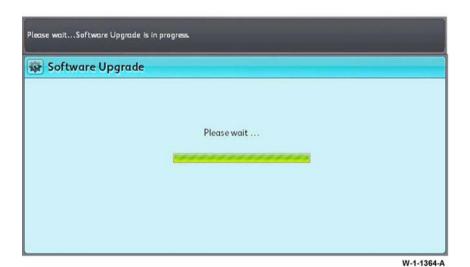
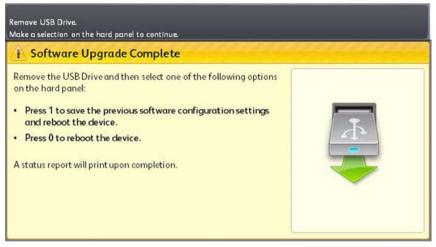


Figure 9 Software upgrade



Figure 10 Start of upgrade

Figure 11 DLM upgrade complete



W-1-1367-A

Figure 12 AltBoot upgrade complete



W-1-1368-A

Figure 13 Upgrade failed



W-1-1369-A

Figure 14 Encryption progress

GP 5 Portable Work Station and Tools

Purpose

To describe the PWS diagnostic tools that are available for use with the WorkCentre 5945/5955 machines

Description

The only PWS Diagnostic Tool that is available is the SBC AltBoot Tool.

SBC AltBoot Tool

Use this tool to perform a AltBoot software load when the USB flash drive method cannot be used. Refer to GP 4 Machine Software.

GP 6 Screw Usage

Purpose

To prevent damage to parts by screws not being installed correctly.

Procedure

Replacing Existing Screws

Always use the correct driver for the type of screw head. Use a nut driver if possible; this gives a better grip than a slotted or cross-head driver.

Take care not to install self-tapping screws into machine-screw holes, or machine-screws into self-tapping holes.

When replacing self-tapping screws into plastic components, turn the screw counterclockwise to engage the original thread, then turn the screw clockwise. Do not overtighten. If a new thread is cut, the plastic component will lose the ability to hold the screw as firmly, and eventually not at all. This also applies, to a lesser degree, to metal components.

NOTE: Reverse the direction of turn for left-hand threads.

Use the same method for machine thread screws and nuts to avoid cross threading.

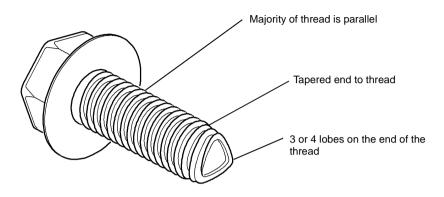
Inserting a Screw into an Un-threaded Hole

Some new components are supplied with fastening holes that do not have the screw thread pre-cut. It is the insertion of the first screw into the hole that forms the thread.



Use the procedure that follows to avoid broken screws and damaged holes:

1. Ensure that the screw is a thread forming screw, refer to Figure 1.



W-1-1370-A

Figure 1 Thread forming screw

If the screw that is used to fasten the component does not appear to be a thread forming screw, temporarily use a thread forming screw from another location on the machine.

- 2. Do not assemble the new part into the machine yet. Form the screw threads first.
- 3. Use the correct screw driver or nut driver to ensure a good grip on the head of the screw.
- 4. Using a moderate axial force, insert the screw to form the thread in the hole, then remove the screw.
- 5. Repeat step 4 as necessary until all fastening holes in the new component are threaded
- Assemble the component on the machine.

GP 7 Miscellaneous Checks

Purpose

To indicate which types of problems to look for when checking or inspecting parts of the machine.

Procedure

- Assess the fault. Check if the part is broken, too loose or too tight. Check if it needs cleaning or lubricating.
- 2. Check the components that follow as appropriate:
 - Actuators.
 - Bearings.
 - Drive Belts.
 - · Gears.
 - Gravity Fingers and Stripper Fingers.
 - · Harnesses and Wiring.
 - · Rollers.
 - Shafts.

Actuators

- Free movement.
- Damage
- Contamination.

Bearings

- Wear.
- Damage.
- Contamination.

Drive Belts

- Wear.
- Damaged teeth.
- Correct tension.
- Contamination of tension rollers and support shafts.

Gears

- Contamination.
- Chips or cracks.
- Wear.
- Misalignment.

Gravity Fingers and Stripper Fingers

- Free movement.
- Missing fingers.
- Damage.
- Contamination on the fingers, rollers or on the pivot shaft.

Harnesses and Wiring

Continuity.

- Short circuits caused by physical damage or contamination of conductors, terminals or connectors.
- Overheated insulation.
- Damaged insulation near moving parts and sharp edges.
- Pin and receptacle damage on connectors.

NOTE: For making harness and wiring repairs, refer to REP 1.2.

Rollers

- Flats.
- Tears.
- Contamination.
- Secure E-clips and other retainers.

Shafts

- Contamination.
- Misalignment.
- Rotates without binding.

GP 8 Special Tools and Consumables

Description

Refer to the list that follows:



Wear protective gloves, PL 26.10 Item 10 and eye protection when using solvents and cleaning agents.

- Data cable, PL 26.10 Item 24.
- Xerox approved USB pen drive.
- USB cable, PL 26.10 Item 5.
 - PWS (portable work station) to SBC PWB.
- Ethernet crossover cable, PL 26.10 Item 6.
 - PWS to machine.
- Finisher bypass harness, PL 26.10 Item 7.
 - Electrical cheat for PJ151.
- Antistatic fluid, PL 26.10 Item 19.
 - Cleaning agent.
- Disposable gloves, PL 26.10 Item 10.
 - General protection.
- Film remover, PL 26.10 Item 4.
 - Cleaning agent.
- Formula A cleaning fluid, PL 26.10 Item 2.
 - General cleaning.
- Lens and mirror cleaner, PL 26.10 Item 9.
 - Optics cleaning.
- Cleaning fluid, PL 26.10 Item 22.
- Air Duster, PL 26.11 Item 1.
- Microfiber wiper, PL 26.10 Item 13.
 - General cleaning.
- Plastislip grease, PL 26.10 Item 8.
 - Lubrication for plastic gears and components.
- Convenience stapler, 2K LCSS and LVF BM staple cartridge, PL 26.10 Item 11.
- LVF BM staple cartridge (booklet maker), PL 26.11 Item 2.
- Test pattern, A3/11X17, PL 26.10 Item 14.
 - IQS 1 Solid Area Density and Tone Reproduction and IQS 2 Background.
- Test pattern, A4, PL 26.10 Item 15.
 - IQS 1 Solid Area Density and Tone Reproduction and IQS 2 Background.
- Test pattern, 8.5 X 11, PL 26.10 Item 16.
 - IQS 1 Solid Area Density and Tone Reproduction and IQS 2 Background.
- Test pattern, solid area density scale, PL 26.10 Item 17.
 - IQS 1 Solid Area density.
- Test pattern, visual scale, PL 26.10 Item 18.
 - IQS 2 Background.

GP 9 Machine SIM Card Matrix

Purpose

To identify the SIM cards.

Procedure

Install a SIM card, PL 3.22 Item 5, that is compatible with the speed of machine and the PagePack requirement:

- PagePack enabled SIMs are indicated by a star.
- PagePack not enabled SIMs are indicated by a triangle.

Refer to Figure 1. Be aware of the points that follow:

- The PagePack function is enabled in all XE installations. Depending on the customer's full service maintenance agreement, the PagePack function may need to be enabled when a USSG/XCL machine is installed in an XE region.
- A new SIM is pre-programmed with the machine speed and either PagePack enabled or not enabled. When the SIM is installed, the machine serial number is permanently written to the SIM. The SIM can not be reused in another machine.
- On the reverse of each SIM card is printed the batch code.

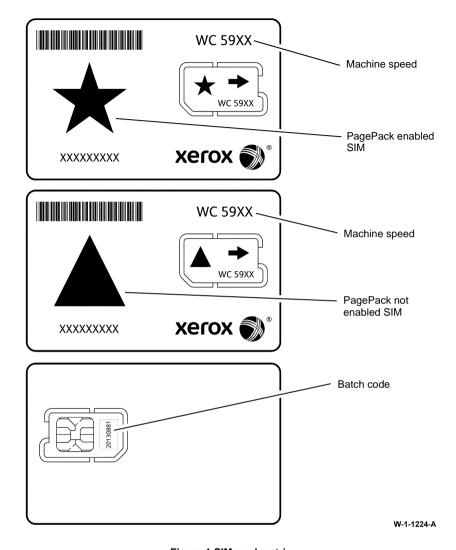


Figure 1 SIM card matrix

GP 10 How to Check a Motor

This procedure describes how to check the motors that follow:

- Two Wire DC Motors.
- Four Wire Stepper Motor.
- Six Wire Stepper Motor.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- Check that the motor is free to rotate.
- 2. Check that all the motor's mechanisms are clean, free to move and lubricated correctly.
- Enter the component control code for the motor. Refer to dC330. Run the motor for 30 seconds. If the motor shows signs of, or can be heard to slow down, then the motor is defective. Replace the motor.
- Perform the appropriate procedure:
 - Two Wire DC Motors.
 - Four Wire Stepper Motor.
 - Six Wire Stepper Motor.

NOTE: The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the circuit diagram in the RAP for the correct information.

NOTE: For the motors supplied through the IOT PWB, refer to the OF7 IOT Diagnostics RAP.

Two Wire DC Motors

NOTE: In cases where the motor may be driven forward or backward, the same 2 feed wires are used, but the voltages on them are reversed, to reverse the motor direction. Such motors may have 2 component control codes, for forward and reverse. A typical application is a tray lift motor with a tray-up and a tray-down direction.

- Go to Flag 2. Disconnect PJB. Check that +24V is measured when the component control
 code for the motor is entered.
- Go to Flag 1. Disconnect PJA. Check for +24V on the LVPS.
- Go to Flag 3. Disconnect PJC. Check that the signal changes on the IOT PWB when the component control code for the motor is entered.
- Check the wiring and the connectors for the motor circuit.

References:

- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.

Four Wire Stepper Motor

NOTE: A stepper motor with an internal open circuit may appear to be fully functional under dC330 component control. However, under normal operation it will run with intermittent failure. Use the standard digital meter to check that the resistance of the stepper motor coils are similar.

NOTE: In some service manuals, the phase winding wires, A, /A, B and /B may be marked: A+, A-, B+ and B-, or as: phase A+, phase B+ and phase B-.

- Go to Flag 6. Disconnect PJH. Check the motor on pulses on the harness when the component control code for the motor is entered.
- Go to Flag 6. Disconnect PJJ. Check the motor on pulses on the harness when the component control code for the motor is entered.
- Check the wiring and the connectors for the motor circuit.

References:

- 301G +24V Distribution RAP.
- 301B 0V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.

Six Wire Stepper Motor

NOTE: A stepper motor with an internal open circuit may appear to be fully functional under dC330 component control. However, under normal operation it will run with intermittent failure. Use the standard digital meter to check that the resistance of the stepper motor coils are similar.

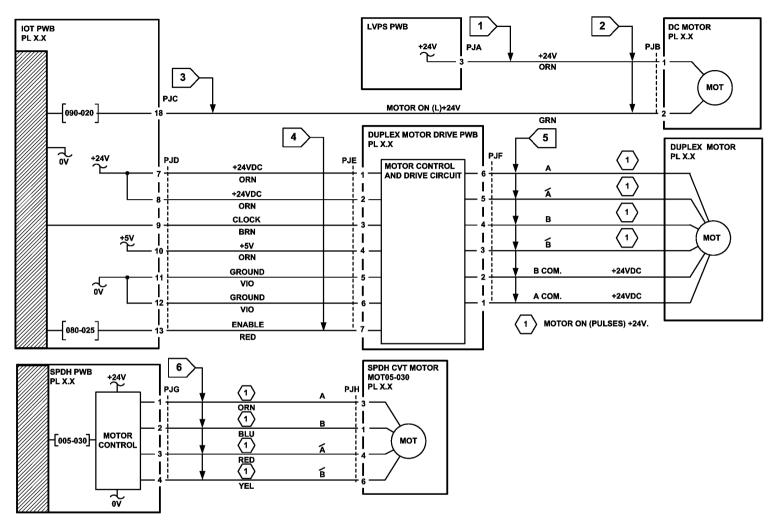
NOTE: In some service manuals, the phase winding wires, A, /A, B and /B may be marked: A+, A-, B+ and B-, or as: phase A+, phase A+, phase B+ and phase B-.

- Go to Flag 5. Disconnect PJF. Check the +24V supply and the motor on pulses when the component control code for the motor is entered.
- Go to Flag 4. Disconnect PJD. Check the +24V, +5V and 0V supplies.
- Go to Flag 4. Check the clock pulses.
- Go to Flag 4. Check that the signal on PJD pin 13 changes when the component control code for the motor is entered.
- · Check the wiring and the connectors for the motor circuit.

References:

- 301G +24V Distribution RAP.
- 301E +5V distribution RAP.
- 301B 0V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.

GP 10



TW-1-0210-A

Figure 1 Circuit diagram

GP 11 How to Check a Sensor

Description

Use this procedure to check the operation of all types of sensor, except adaptive reflective sensors

To check the operation of adaptive reflective sensors, refer to GP 38.

NOTE: The upper circuit diagram in Figure 1 shows a flag sensor. Some sensors have a resistor within the sensor. Other sensors require a resistor on the PWB, such as R1 in Figure 1. The resistor limits the current through the LED. This decreases the voltage on the sensor LED to 1.2V, typically.

NOTE: The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the circuit diagram in the RAP for the correct information.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- 1. Ensure that the sensor is installed correctly.
- 2. Clean the sensor and the area around the sensor.
- 3. If a flag actuator is installed, check that it has free movement.
- 4. Check that the paper path is clear.
- 5. If the sensor activates by a surface that reflects, check that the surface is clean. Also ensure that there is not an obstruction between the sensor and the surface.
- If the sensor actuates by an encoder disc, ensure the holes or gaps in the disc are aligned correctly with the sensor.

Sensor Action

In the upper sensor in Figure 1, when light from the LED is allowed to fall on the photo-sensitive transistor, the sensing line, PJA, pin 2, is low. When light from the LED is blocked by the flag, the sensing line is high.

In the lower sensor in Figure 1, when light from the LED is reflected by the paper onto the photo-sensitive transistor, the sensing line, PJE, pin 2 is low. When no paper is present, no light falls on the transistor and the sensing line is high.

Quick Sensor Check

Enter the component control code for the sensor. Refer to dC330. Activate the sensor. If the display changes, the sensor operates correctly. If the display does not change, perform the procedure.

Procedure

For the upper sensor in Figure 1:

- Go to Flag 1. Disconnect PJA. Check for +3.3V and 0V at PJA on the harness.
- Go to Flag 2. Disconnect PJC. Check the wiring and the connectors for the sensor circuit.
- Go to Flag 2. Check for +3.3V and 0V at PJC on the IOT PWB.
- If necessary, install new components or repair the wiring.

References:

- 301B 0V Distribution RAP.
- 301D +3.3V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.

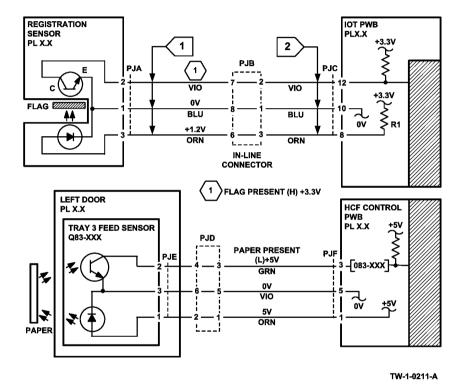


Figure 1 Circuit diagram

GP 12 How to Check a Solenoid or Clutch

Description

Use this procedure to check a clutch or solenoid.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- For a clutch, check that the mechanical components are clean, free to move and are lubricated correctly
- 2. For a solenoid, check that the armature and associated mechanical components are free to move.

Procedure

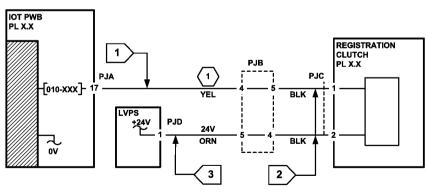
NOTE: The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the circuit diagram in the RAP for the correct information.

NOTE: When a solenoid is energized in service mode, armature movement is seen. When a clutch is energized in service mode, the sound of the clutch action is heard. If possible, energize the motor connected to the clutch to confirm when the clutch is energized.

- Go to Flag 1. Check that the signal changes on the IOT PWB when the component control code for the clutch or solenoid is entered.
- Go to Flag 2. Disconnect PJC. Check that +24V is measured when the component control
 code for the clutch or solenoid is entered.
- Go to Flag 3. Disconnect PJD. Check for +24V on the LVPS.
- Check the wiring and the connectors for the clutch or solenoid circuit.

References:

- 301B 0V Distribution RAP.
- 301G +24V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.



1 REGISTRATION CLUTCH ON (L) +24V

Figure 1 Circuit diagram

GP 13 How to Check a Switch

Description

Use this procedure to check the operation of a switch.

NOTE: The circuit in Figure 1 shows an interlock switch activated by the closing of a door.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Manually check that the switch operates. Ensure that the magnet or other actuator has enough mechanical movement to operate the switch.

NOTE: The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the circuit diagram in the RAP for the correct information.

Procedure

- Go to Flag 1. Disconnect PJA. Check the electrical operation of the switch.
- Go to Flag 1. Disconnect PJB. Check for +5V and 0V on the IOT PWB.
- Go to Flag 1. Check the wiring and the connectors for the switch circuit.

References:

- 301B 0V Distribution RAP.
- 301E +5V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.

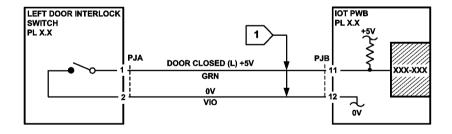


Figure 1 Circuit diagram

GP 14 How to Switch Off the Machine or Switch On the Machine

Purpose

To show how to switch off or switch on the machine, without the loss of customer data or damage to the system hardware.



Do not use the power button as a safety disconnect device. The power button is not a disconnect device. Disconnect the power cord from the supply to isolate the equipment.

Refer to:

- Switch Off Procedure.
- Switch Off Failure Procedure.
- Quick Restart.
- Switch On Procedure.
- Energy Saver Mode.

Switch Off Procedure



Do not disconnect the power cord or interrupt the electricity supply before the power down is complete unless advised. The data and software can become damaged.

Press the Power button on the UI, Figure 1. The Power Down Options window will display.

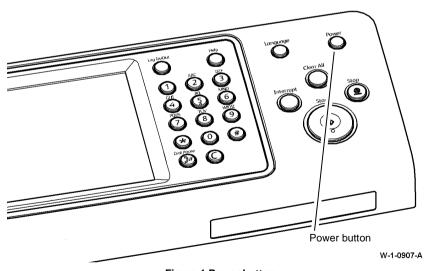


Figure 1 Power button

- 2. Select the Power Off button on the UI.
- When the machine has switched off, remove the power lead from the outlet.

4. If the machine does not switch off, perform the Switch Off Failure Procedure.

General

- 1. When Power Off is selected, the machine should power down automatically. This should take approximately 30 seconds. The Powering Down screen will be displayed.
- 2. If possible, the system finishes all jobs.
- 3. The machine stops processing all jobs that remain in the gueue.
- A warning message displays on the UI.
- If a module does not respond and the power down is possible, the power down completes after a maximum of 2 minutes.

Switch Off Failure Procedure

- Press the Power button, Figure 1, for approximately 5 seconds which should switch off the machine via a software command. If the machine fails to switch off, press the Power button for 15 seconds which should switch off the machine immediately.
- If the machine still fails to switch off, disconnect the power cord.
- 3. If necessary, reconnect the power cord after 2 minutes.
- 4. If the machine again fails to switch off, perform the 303C Power Off Failure RAP.

Quick Restart

The quick restart causes the system to reset the software of the SBC PWB, the IOT PWB and the UI.

- 1. Press the Power button on the UI, Figure 1. The Power Down Options window will display.
- 2. Select the Quick Restart button on the UI touch screen.

Switch On Procedure

- After the machine has been switched off, wait a minimum of 2 minutes before the machine is switched on.
- After a service call, ensure that all service tools are removed from the machine.
- 3. Connect the power lead from the power supply outlet to the machine.
- 4. Press the Power button on the UI, Figure 1.
- 5. The machine will perform a power on self test (POST). The POST checks that the hardware resources are available to run the operating system. If a POST fault is detected, the machine is prevented from booting. The fault is communicated via a 7-Segment LED display unit on the rear of the machine attached to the SBC PWB. Refer to the OF2 POST Error Rap.
- 6. If the machine does not initialize, perform the appropriate RAP as follows:
 - If the machine switches on, but the UI is blank, perform the 302A UI Touch Screen Failure RAP.
 - If the machine does not respond, perform the OF3 Dead Machine RAP.
 - If the machine switches on, but does not respond, perform the OF5 Boot Up Failure RAP.

General

- When the power lead is connected, the LVPS +3.3VSB supply is energized. The LVPS +3.3VSB supply provides +3.3VSB to the IOT PWB.
- When the Power button is pressed, the LVPS is energized. The +5V, +24V and AC voltage for the auxiliary output sockets and fuser module is distributed.
- 3. Each module manages its POST and power-up sequence.

NOTE: Refer to GP 22 Electrical Power requirements for further information.

Energy Saver Mode

Energy Saver mode is selected from the Power Down window. When pressed, the machine should enter Energy Saver mode within 30 seconds.

NOTE: If the energy saver feature is disabled, the option is not displayed. Refer to GP 22 Electrical Power Requirements for further information.

GP 15 Remote Diagnostics

Purpose

To show how to remotely login to the machine and use diagnostics.

Procedure

 Before starting this procedure, contact the customer to check that remotely accessing the machine is convenient. Also ask the customer for the IP address of the machine.

NOTE: The IP address of the machine is printed on the configuration report.

It may also be necessary to get access to the machine through the customer's firewall. This procedure may be OPCO dependent. Contact your local OPCO.

NOTE: If the machine UI is busy, session timer active, then the remote diagnostics will need to be accepted at the machine UI. Alternatively, wait until the machine UI is not busy.

- 2. Ensure that remote diagnostic login is enabled. Perform the steps that follow:
 - a. Open a web browser. Enter the machine's IP address in the web browser Address field, then click on the enter key. The machine's web page will open.
 - b. Select Support.
 - c. Select Remote Control Panel, then Edit.
 - In the Login window, enter the user name 'admin' (case sensitive) and the password '1111' (default setting). Click on Login.
 - In the Enablement window, select Enable, then For Admin and Diagnostic Users Only. Click on Save.

NOTE: Remote UI is disabled by default.

f. To prevent a local user overriding remote selections, in the Access window, select Block Local Control Panel (user can only observe).

g. Select Logout, Figure 1. In the Logout window, click on Logout.



Figure 1 Logout / Login

- 3. Access remote diagnostics. Perform the steps that follow:
 - a. Select Login, Figure 1.
 - b. In the Login window, enter the user name 'diag' (case sensitive) and the password '3424'. Select Login.
 - Select Remote Control Panel.
 - d. To prevent a local user overriding remote selections, in the Access window, select Block Local Control Panel (user can only observe). Click on Open Remote Control Panel.
 - e. The remote UI will now open and a Service Diagnostics button is available on the remote UI, Figure 2.

NOTE: The message 'Remote session is active' is displayed to inform local users that the machine is being accessed remotely.

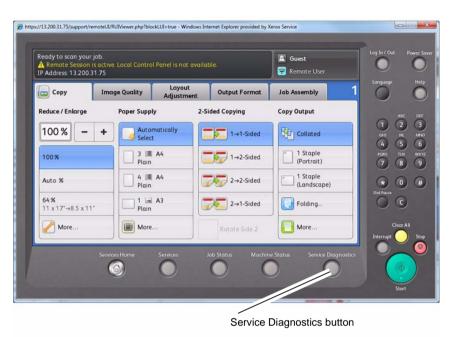


Figure 2 Service Diagnostics button

W-1-0908-A

NOTE: If the remote control panel screen does not show the diagnostics button as shown in Figure 2, it is for one of the following reasons:

- Admin and Diagnostics Users Only is not selected in settings. See step 2 e.
- Logged in as Admin /1111. Log out and then repeat steps 3 a, b, c using the login Diag/3424.
- Selected remote control panel before logging in. Close out of remote control
 panel and repeat steps 3 a, b, c.
- Click on Service Diagnostics. In the Login window, enter the passcode '6789'. Select Enter.
- g. The machine will enter diagnostics (service mode). All diagnostic functions are available. Refer to GP 1 Service Mode.
- h. To exit service mode, select Call Closeout, then Exit and Reboot.

NOTE: If the remote UI session is closed without exiting diagnostics, the machine will remain in diagnostics and the remote UI will not be accessible.

- i. Close the remote UI window.
- Select Logout, Figure 1. In the Logout window, click on Logout.

GP 16 How to Safely Lift or Move Heavy Modules

Purpose

Use this procedure when lifting or moving heavy modules.

Procedure

When removing heavy modules from the machine, the instructions that follow must be observed:

 Ensure that a suitable stable surface to support the module after removal is located in close proximity to the machine.

NOTE: Other parts of the machine are not a suitable stable surface.

- 2. Ensure that the height of the support surface is between 750mm and 1000mm (30 inches and 39 inches).
- Ensure that there are no hazards or obstacles between the machine and the support surface.
- 4. If instructed to remove the module toward the rear of the machine and only 1 person is available, the module must be removed while standing at the rear of the machine. If 2 people are available, the module may be removed while standing at the front of the machine.
- 5. Two people are required if the module is to be lifted on to the floor or lifted from the floor.

GP 17 How to Re-Enter Optional Feature Installation Keys

Purpose

To explain how to re-enter optional feature installation keys if they fail to reload after an Alt-Boot.

NOTE: McAfee Integrity Control and XPS are the optional features available on the WorkCentre 5945/5955.

Procedure

Perform the steps that follow:

- 1. Obtain the valid feature installation key(s) by either:
 - a. Asking the customer.
 - Logging in to the SWAP, www.xeroxlicensing.xerox.com/fik. From the Welcome screen, select Find an existing key. Enter the machine serial number in the window. Select Next.
 - Contacting the Licensing Admin Centre (USSG/XCL) or the Xerox sales representative (XE/DMO).
- 2. Enter the feature installation key(s). Perform the steps that follow:
 - a. Press the Machine Status button.
 - Select the Tools tab.
 - Select Device Settings, then General.
 - d. Select Feature Installation. Enter the feature installation key. Select OK. If necessary, enter the second feature installation key.

GP 18 Machine Lubrication

Purpose

To give information on the use of lubricants.

Procedure



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.



Only use lubricants as directed. Incorrect use of lubricants could seriously affect the performance of the machine.

Take the precautions that follow when performing machine lubrication:

- Wear disposable gloves, PL 26.10 Item 10.
- Only use lubricants that are specified in the Parts List.
- Only lubricate parts of the machine as directed in the relevant RAPs, Repairs, Adjustments and General Procedures.
- Apply only the smallest amount of lubricant, sufficient to lubricate the parts. To prevent contamination, remove any surplus lubricant before the machine is run.
- Take great care not to contaminate other parts of the machine with the lubricant.

GP 19 Network Clone Procedure

Purpose

To save and restore the customer's unique network configuration setting.

The clone file (to hard disk) must be performed at the first service call and whenever the customer changes the network settings or after the system software is changed.

Procedure

How to Save a Clone File

 On the customer's workstation, open the web browser. Enter the machine's IP address in the web browser Address field. Click on the enter key. The machine web page will open.

NOTE: . Refer to the configuration report for the machine's IP address.

- 2. Click on Properties.
- Enter the Administrator user ID and password. Refer to GP 24 Customer Administration Tools.
- Select General Setup.
- Select Cloning.
- 6. Select the relevant settings to clone.
- Click on Clone.
- In the Cloning Instructions area, right-click on the (Cloning.dlm) link. Select Save Target As.
- 9. Ask the customer to specify a file name and location.

NOTE: . Ensure the file extension is .dlm.

10. Select Save.

How to Install a Clone File - Option 1

1. On the customer's workstation, open the web browser. Enter the machine IP address in the web browser Address field. Click on the enter key. The machine web page will open.

NOTE: . Refer to the configuration report for the machine IP address.

- 2. Click on Status.
- 3. Select Welcome.
- Click on I Have A Cloning File.
- Enter the Administrator user ID and password. Refer to GP 24 Customer Administration Tools.
- Scroll down to the Install Clone File area. Click on Browse to locate the relevant clone file.
- Click on Install.

NOTE: . The machine will reboot and be unavailable for several minutes.

How to Install a Clone File - Option 2

 On the customer's workstation, open the web browser. Enter the machine IP address in the web browser Address field. Click on the Enter key. The machine web page will open.

NOTE: . Refer to the configuration report for the machine IP address.

- Click on Properties, then General Setup, then Cloning.
- 3. Scroll down to the Install Clone File area. Click on Browse to locate the relevant clone file.
- Click on Install.

NOTE: . The machine will reboot and be unavailable for several minutes.

GP 20 Paper and Media Size Specifications

Purpose

To list the paper and media size specifications.

Specifications

The baseline papers used in this specification are defined as:

- Xerox 4200 (20lb/75 gsm) 8.5 x 11 inch.
- Xerox Premier TCF 80 gsm A4.

The machine design and performance is optimized for these papers.

NOTE: Check that the paper tray settings match the paper size in the tray.

Refer to the tables that follow:

- Table 1 Performance indication. Use this table to determine the meaning of the alpha numeric codes in Table 2 and Table 3.
- Table 2 European papers.
- Table 3 American papers.
- Table 4 U.S. paper weight conversion. Use this table to determine approximate equivalent points in weight specifications other than for U.S. bond weight.
- Table 5 Input/output paper sizes. The table defines the paper sizes that are recognized by the SPDH, document glass and the paper trays when using a centre tray configured machine.

- Table 6 2K LCSS output paper sizes. The table defines the paper sizes that can be delivered to the output trays of a 2K LCSS.
- Table 7 LVF BM output paper sizes. The table defines the paper sizes that can be delivered to the output bins of the LVF BM.
- Table 8 Output stock performance. The table shows the media (stock) performance constraints for the output. Performance will not be guaranteed for media not listed in the table. Media that is smaller than 139 mm (5.5 inches) in either the process or cross process direction cannot be duplexed.
- Table 9 Input document material definitions.
- Table 10 Input document quality definitions.
- Envelope Specifications.

Table 1 Performance indication

| Code | Description |
|------|---|
| 3 | Nominal performance |
| 2 | Slightly degraded performance (Good IQ, some jams or poor stacking) |
| 1 | Significantly degraded performance (IQ defects, increased jams or bad stacking) |
| X | Not recommended (or outside specification) |
| N | Size unrecognized and not acceptable |
| U | Size unrecognized but acceptable |
| Υ | Size recognized and accepted |

Table 2 European papers

| Paper Size | Paper Weight (gsm) | Feed Direction | Paper Type | Tray 1/2 | Tray 3/4 | Bypass | Duplex | Defects |
|------------|--------------------|----------------|-------------------------------------|----------|----------|--------|--------|----------------------|
| A4 | 60 | LEF | Plain paper | 2 | 2 | 2 | 2 | Duplex show through |
| A4 | 60 | SEF | Plain paper | 2 | Х | 2 | 2 | Duplex show through |
| A4 | 61 - 120 | LEF | Plain paper | 3 | 3 | 3 | 3 | None |
| A4 | 61 - 120 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| A4 | 121 - 200 | LEF | Plain paper | 2 | 2 | 2 | 2 | None |
| A4 | 121 - 200 | SEF | Plain paper | 2 | Х | 2 | 2 | None |
| A4 | 201 - 216 | LEF/SEF | Plain paper | Х | Х | 2 | X | None |
| A4 | - | LEF/SEF | Labels | Х | Х | 2 | X | None |
| A4 | - | LEF/SEF | Plain transparency | Х | Х | 2 | X | None |
| A4 | - | LEF | White strip transparency | Х | Х | 2 | X | None |
| A4 | - | SEF | White strip transparency | Х | Х | Х | X | Out of specification |
| A4 | - | LEF | Paper backed transparency | Х | Х | 2 | Х | None |
| A4 | - | SEF | Paper backed transparency | Х | Х | Х | X | Out of specification |
| A4 | - | LEF | Transparency removable white stripe | Х | Х | 2 | Х | None |
| A4 | - | SEF | Transparency removable white stripe | Х | Х | Х | Х | Out of spec |

Table 2 European papers

| Paper Size | Paper Weight (gsm) | Feed Direction | Paper Type | Tray 1/2 | Tray 3/4 | Bypass | Duplex | Defects |
|-------------|--------------------|----------------|------------------------------|----------|----------|--------|--------|--|
| A4 | - | LEF/SEF | Carbonless | Х | Х | 2 | Х | None |
| Oversize A4 | - | LEF | Tabs | 2 | Х | 2 | Х | Productivity reduction including jams and dog-ears with tabs other than Modulus 5 when used in the LVF BM. |
| Oversize A4 | - | LEF | Covers | 2 | Х | 2 | Х | Productivity reduction |
| A3 | 60 | SEF | Plain paper | 2 | Χ | 2 | 1 | Curl |
| A3 | 61 - 120 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| A3 | 121 - 160 | SEF | Plain paper | 2 | Χ | 2 | 2 | None |
| A3 | 161 - 200 | SEF | Plain paper | 2 | Х | 2 | 1 | Mis-registration and skew |
| A5 | 60 | LEF | Plain paper | Х | Χ | 2 | 1 | Curl |
| A5 | 60 | SEF | Plain paper | 2 | Χ | 2 | 1 | Curl |
| A5 | 61 - 120 | LEF | Plain paper | Х | Х | 3 | 3 | None |
| A5 | 61 - 120 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| A5 | 121 - 200 | LEF | Plain paper | Х | Χ | 2 | 2 | None |
| A5 | 121 - 200 | SEF | Plain paper | 2 | Х | 2 | 1 | Mis-registration and skew |
| A6 | 60 | LEF | Plain paper | Х | Х | Х | Х | Out of specification |
| A6 | 60 | SEF | Plain paper | Х | Х | 2 | Х | |
| A6 | 61 - 120 | LEF | Plain paper | Х | Χ | X | X | Out of specification |
| A6 | 61 - 120 | SEF | Plain paper | Х | Х | 3 | Х | |
| A6 | 121 - 200 | LEF | Plain paper | Х | Х | X | X | Out of specification |
| A6 | 121 - 200 | SEF | Plain paper | Х | Χ | 1 | X | |
| A4 | 60 | LEF/SEF | Nekosa | 1 | 1 | 1 | 1 | Jams |
| A4 | 200 | LEF/SEF | Premier TCF | 2 | 2 | 2 | 2 | Poor fix |
| All | All | LEF/SEF | Envelopes (see NOTE 1) | 2 | Χ | 2 | X | Wrinkle |
| All | 100 | LEF/SEF | Conqueror finely ridged laid | 2 | 2 | 2 | 2 | Poor fix |
| All | 80 | LEF/SEF | Recycled | 1 | 1 | 1 | 1 | Excessive curl |
| Any | Any | LEF/SEF | Jobs with covers | 1 | N/A | 1 | 1 | Rear cover of stapled sets of more than 35 sheets plus 2 covers, may be mis-registered in the 2K LCSS and LVF BM |
| All | 200 | LEF/SEF | Colortech (coated paper) | 2 | 2 | 2 | 2 | Stapling more than 10 sheets not recommended |

NOTE: 1. An optional envelope tray kit is required to feed envelopes from tray 2.

Table 3 American papers

| • | Paper Weight US Bond (lb.) | Feed Direction | Paper Type | Tray 1/2 | Tray 3/4 | Bypass | Duplex | Defects |
|----------|-------------------------------|----------------|-------------|----------|----------|--------|--------|---------------------|
| 8.5 x 11 | 16 | LEF | Plain paper | 2 | 2 | 2 | 2 | Duplex show through |
| 8.5 x 11 | 16 | SEF | Plain paper | 2 | Х | 2 | 2 | Duplex show through |
| 8.5 x 11 | 20 - 32 | LEF | Plain paper | 3 | 3 | 3 | 3 | None |
| 8.5 x 11 | 20 - 32 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| 8.5 x 11 | 34 - 53 | LEF | Plain paper | 2 | 2 | 2 | 2 | None |
| 8.5 x 11 | 34 - 53 | SEF | Plain paper | 2 | Х | 2 | 2 | None |

Table 3 American papers

| Paper Size (inches) | Paper Weight US Bond (lb.) | Feed Direction | Paper Type | Tray 1/2 | Tray 3/4 | Bypass | Duplex | Defects |
|----------------------|-------------------------------|----------------|-------------------------------------|----------|----------|--------|--------|--|
| 8.5 x 11 | 57 | LEF/SEF | Plain paper | X | Х | 2 | Х | None |
| 8.5 x 11 | - | LEF /SEF | Labels | Х | Χ | 2 | Х | None |
| 8.5 x 11 | - | LEF/SEF | Plain transparency | X | Х | 2 | Х | None |
| 8.5 x 11 | - | LEF | White strip transparency | Х | Х | 2 | Х | None |
| 8.5 x 11 | - | SEF | White strip transparency | X | Х | Х | Х | Out of specification |
| 8.5 x 11 | - | LEF | Paper backed transparency | Х | Χ | 2 | Х | None |
| 8.5 x 11 | - | SEF | Paper backed transparency | Х | Χ | Х | Х | Out of specification |
| 8.5 x 11 | - | LEF | Transparency removable white stripe | Х | Х | 2 | Х | None |
| 8.5 x 11 | - | SEF | Transparency removable white stripe | Х | Х | Х | Х | Out of specification |
| 8.5 x 11 | - | LEF/SEF | Carbonless | Х | Х | 2 | Х | None |
| Oversize 8.5 x 11 | - | LEF | Tabs | 2 | Х | 2 | Х | Productivity reduction including jams and dog-ears with tabs other than Modulus 3 and 5 when used in the LVF BM. |
| Oversize 8.5 x 11 | - | LEF | Covers | 2 | Х | 2 | Х | Productivity reduction |
| 11 x 17 | 16 | SEF | Plain paper | 2 | Х | 2 | 1 | Curl |
| 11 x 17 | 20 - 32 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| 11 x 17 | 34 - 53 | SEF | Plain paper | 2 | Х | 2 | 1 | Mis-registration and skew |
| 8.5 x 14 | 16 | SEF | Plain paper | 2 | Х | 2 | 1 | Curl |
| 8.5 x 14 | 20 - 32 | SEF | Plain paper | 3 | Х | 3 | 3 | None |
| 8.5 x 14 | 34 - 53 | SEF | Plain paper | 2 | Х | 2 | 1 | Mis-registration and skew |
| 8.5 x 5.5 | 16 | LEF | Plain paper | 2 | Х | 2 | 1 | Not tested |
| 8.5 x 5.5 | 16 | SEF | Plain paper | Х | Х | 2 | 1 | Not tested |
| 8.5 x 5.5 | 20 - 32 | LEF | Plain paper | 3 | Х | 3 | 3 | Not tested |
| 8.5 x 5.5 | 20 - 32 | SEF | Plain paper | Х | Х | 3 | 3 | Not tested |
| 8.5 x 5.5 | 34 - 53 | LEF | Plain paper | 2 | Х | 2 | 2 | Not tested |
| 8.5 x 5.5 | 34 - 53 | SEF | Plain paper | Х | Х | 2 | 1 | Not tested |
| 5.5 x 4.25 | 16 | LEF | Plain paper | Х | Х | Х | X | Out of specification |
| 5.5 x 4.25 | 16 | SEF | Plain paper | Х | Х | 2 | X | Out of specification |
| 5.5 x 4.25 | 20 - 32 | LEF | Plain paper | X | Х | Х | Х | Out of specification |
| 5.5 x 4.25 | 20 - 32 | SEF | Plain paper | Х | Х | 3 | Х | Out of specification |
| 5.5 x 4.25 | 34 - 53 | LEF | Plain paper | X | Х | Х | Х | Out of specification |
| 5.5 x 4.25 | 34 - 53 | SEF | Plain paper | Х | Х | 1 | Х | Out of specification |
| All | All | LEF/SEF | Envelopes (see NOTE 1) | 2 | Х | 2 | Х | Wrinkle |
| 11 x 17 | 32 | SEF | Domtar (10% recycled) | 1 | Х | 1 | 1 | Bad stacking due to curl |
| Any | Any | LEF/SEF | Jobs with covers | 1 | 1 | 1 | 1 | Rear cover of stapled sets of more than 35 sheets plus 2 covers, may be mis-registered in the 2K LCSS and LVF BM |

Table 4 U.S. paper weight conversion

| US Postcard Thickness (mm) (see NOTE) | US Bond Weight (lb.) | US Text/Book Weight (lb.) | US Cover Weight (lb.) | US Bristol Weight (lb.) | US Index Weight (lb.) | US Tag Weight (lb.) | Metric Weight (gsm) |
|--|----------------------|---------------------------|-----------------------|-------------------------|-----------------------|---------------------|---------------------|
| - | 16 | 41 | 22 | 27 | 33 | 37 | 60 |
| - | 17 | 43 | 24 | 29 | 35 | 39 | 64 |
| - | 20 | 50 | 28 | 34 | 42 | 46 | 75 |
| - | 21 | 54 | 30 | 36 | 44 | 49 | 80 |
| - | 22 | 56 | 31 | 38 | 46 | 51 | 83 |
| - | 24 | 60 | 33 | 41 | 50 | 55 | 90 |
| - | 27 | 68 | 37 | 45 | 55 | 61 | 100 |
| - | 28 | 70 | 39 | 49 | 58 | 65 | 105 |
| - | 32 | 80 | 44 | 55 | 67 | 74 | 120 |
| - | 34 | 86 | 47 | 58 | 71 | 79 | 128 |
| - | 36 | 90 | 50 | 62 | 75 | 83 | 135 |
| 0.18 | 39 | 100 | 55 | 67 | 82 | 91 | 148 |
| 0.19 | 42 | 107 | 58 | 72 | 87 | 97 | 158 |
| 0.20 | 43 | 110 | 60 | 74 | 90 | 100 | 163 |
| 0.23 | 47 | 119 | 65 | 80 | 97 | 108 | 176 |
| 0.25 | 51 | 128 | 70 | 86 | 105 | 117 | 190 |
| 0.26 | 53 | 134 | 74 | 90 | 110 | 122 | 199 |
| 0.27 | 54 | 137 | 75 | 93 | 113 | 125 | 203 |
| 0.29 | 58 | 146 | 80 | 98 | 120 | 133 | 216 |
| 0.32 | 65 | 165 | 90 | 111 | 135 | 150 | 244 |
| 0.33 | 66 | 169 | 92 | 114 | 138 | 154 | 250 |
| 0.34 | 67 | 171 | 94 | 115 | 140 | 155 | 253 |
| 0.35 | 70 | 178 | 98 | 120 | 146 | 162 | 264 |
| 0.36 | 72 | 183 | 100 | 123 | 150 | 166 | 271 |

NOTE: U.S. Post Card measurements are approximate. Use for reference only.

Table 5 Input/output paper sizes

| Paper Size | ommon Inch (W x L) mm (W x L | | Orientation | Paper T | ray Size S | Sensing | | | | Document Glass Size Sensing | | | |
|-----------------------|------------------------------|-----------|-------------|---------|----------------|---------|--------------|--------------|-------|--------------------------------|--------------|-------|---|
| | Inch (W x L) +/-1/32 inch | ` , | | _ | Bypass tray | _ | USSG/ XCL | Eur/ Asia | Latin | USSG/ XCL | Eur/ Asia | Latin | Notes |
| Letter | 8.5 x 11 | 216 x 279 | SEF | Υ | Υ | N | Υ | Υ | Υ | Υ | Υ | Υ | - |
| Letter | 8.5 x 11 | 216 x 279 | LEF | Υ | Υ | Y* | Υ | Υ | Υ | Υ | Υ | Υ | *Fixed size depending on purchased option |
| Ledger (tab- loid) | 11 x 17 | 279 x 432 | SEF | Υ | Υ | N | Υ | Υ | Υ | Υ | Υ | Υ | - |

Table 5 Input/output paper sizes

| Paper Size | <u>'</u> | | Orientation | r Tray Size Sensing | | | | | Docume Sensing | ent Glas | s Size | | |
|---------------------------|------------------------------|-----------------------|-------------|---------------------|----------------|--------------|--------------|--------------|-------------------|--------------|--------------|-------|---|
| Common Name | Inch (W x L) +/-1/32 inch | mm (W x L) +/-1 mm | LEF/SEF | Tray 1 and 2 | Bypass tray | Tray 3 and 4 | USSG/ XCL | Eur/ Asia | Latin | USSG/ XCL | Eur/ Asia | Latin | Notes |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | SEF | Υ | Y | N | Y* | Y* | Y* | Y | Y | Υ | *ISO A5 or 8.5 x 5.5 depending on market region setting |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | LEF | N | Y | N | Y* | Y* | Y* | Y | Y | Y | *ISO A5 or 8.5 x 5.5 depending on market region setting |
| Postcard | 4.25 x 5.5 | 108 x 140 | SEF | N | Υ | N | N | N | N | Υ | U | U | - |
| Postcard | 4.25 x 5.5 | 108 x 140 | LEF | N | N | N | N | N | N | U | U | U | Cannot be fed in IOT |
| Legal | 8.5 x 14 | 216 x 356 | SEF | Υ | Υ | N | Υ | Υ | Υ | Υ | U | U | |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | SEF | Υ | Y | N | Y* | Y* | Y* | Y | Y | Υ | *ISO A4 or 8.5 x 13 depending on NVM 1 setting. |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | LEF | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | - |
| ISO A3 | 11.69 x 16.54 | 297 x 420 | SEF | Υ | Υ | N | Υ | Υ | Υ | Υ | Υ | Y | - |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | SEF | Υ | Y | N | Y* | Y* | Y* | U | Y | U | *ISO A5 or 8.5 x 5.5 depending on market region setting |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | LEF | N | Y | N | Y* | Y* | Y* | U | Υ | U | *ISO A5 or 8.5 x 5.5 depending on market region setting |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | SEF | N | Υ | N | N | N | N | U | Υ | Υ | - |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | LEF | N | N | N | N | N | N | U | U | U | - |
| Foolscap or Euroletter | 8.5 x 13 | 216 x 330 | SEF | Υ | Υ | N | Y* | Y* | Y* | U | Y | Y | *ISO A4 or 8.5 x 13 depending on NVM 1 set- ting |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | SEF | N | Υ | N | Υ | Υ | Υ | Υ | Υ | Υ | - |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | LEF | Υ | N | N | Υ | Υ | Υ | Υ | Υ | Υ | - |
| JIS B4 | 10.12 x 14.33 | 257 x 364 | SEF | Υ | Υ | N | U* | U* | U* | Υ | Υ | Y | *Detected as ISO B4 |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | SEF | N | Υ | N | N | N | N | Υ | Υ | Υ | - |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | LEF | N | N | N | U* | U* | U* | U | U | U | *Detected as ISO B5 |
| ISO B5 | 6.93 x 9.84 | 176 x 250 | SEF | Υ | Υ | N | Υ | Υ | Υ | U | U | U | |
| ISO B5 | 6.93 x 9.84 | 176 x 250 | LEF | N | Υ | N | Υ | Υ | Υ | U | U | U | |
| ISO B4 | 9.84 x 13.9 | 250 x 353 | SEF | Υ | Υ | N | Υ | Υ | Υ | Υ | Υ | Υ | |
| SB4 | 9.9 x 14.09 | 252 x 358 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |
| Postcard- Lakes | 4.5 x 6 | 114 x 152 | SEF | N | Y | N | N | N | N | U | U | U | - |
| Postcard- Lakes | 4.5 x 6 | 114 x 152 | LEF | N | N | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| Postcard | 5 x 7 | 127 x 178 | SEF | N | Υ | N | N | N | N | U | U | U | - |
| Postcard | 5 x 7 | 127 x 178 | LEF | N | N | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| 5.5 x 7 inch | 5.5 x 7 | 140 x 178 | SEF | N | Υ | N | U | U | U | U | U | U | - |
| 5.5 x 7 inch | 5.5 x 7 | 140 x 178 | LEF | N | Υ | N | U | U | U | U | U | U | - |

| Paper Size | | | Orientation | Paper T | ray Size | Sensing | SPDH S | ize Sens | sing | Docume Sensing | | s Size | |
|-------------------------------|------------------------------|-----------------------|-------------|-----------------|----------------|--------------|--------------|--------------|-------|-------------------|--------------|--------|---|
| Common Name | Inch (W x L) +/-1/32 inch | mm (W x L) +/-1 mm | LEF/SEF | Tray 1 and 2 | Bypass tray | Tray 3 and 4 | USSG/ XCL | Eur/ Asia | Latin | USSG/ XCL | Eur/ Asia | Latin | Notes |
| Oufuku- Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | SEF | N | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| Oufuku- Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | LEF | N | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| 6 x 9 inch | 6 x 9 | 152 x 229 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| 6 x 9 inch | 6 x 9 | 152 x 229 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| Royal Octavo | 6 x 9.5 | 152 x 241 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO A5 or 8.5 x 5.5 depending on NVM 2 setting |
| Royal Octavo | 6 x 9.5 | 152 x 241 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B5 |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B5 |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | LEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B5 |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B5 |
| Executive | 7.25 x 10.5 | 184 x 267 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| Executive | 7.25 x 10.5 | 184 x 267 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| Quarto | 8 x 10 | 203 x 254 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| Quarto | 8 x 10 | 203 x 254 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8 x 10.5 | 203 x 267 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8 x 10.5 | 203 x 267 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| 8 x 13 inch foolscap | 8 x 13 | 203 x 330 | SEF | N | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.26 x 10 | 210 x 254 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.26 x 10 | 210 x 254 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.26 x 10.63 | 210 x 270 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.26 x 10.63 | 210 x 270 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.26 x 13 | 210 x 330 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting |
| Foolscap Folio | 8.25 x 13.06 | 209 x 333 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting |

Table 5 Input/output paper sizes

| Paper Size | | | Orientation | Paper T | ray Size S | Sensing | SPDH S | ize Sens | sing | Docume Sensing | ent Glass | Size | |
|----------------|------------------------------|-----------------------|-------------|-----------------|----------------|--------------|--------------|--------------|-------|-------------------|--------------|-------|---|
| Common Name | Inch (W x L) +/-1/32 inch | mm (W x L) +/-1 mm | LEF/SEF | Tray 1 and 2 | Bypass tray | Tray 3 and 4 | USSG/ XCL | Eur/ Asia | Latin | USSG/ XCL | Eur/ Asia | Latin | Notes |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as 8.5 x 11 |
| - | 8.46 x 10.83 | 215 x 275 | SEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting |
| - | 8.46 x 10.83 | 215 x 275 | LEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting |
| Folio (Spain) | 8.46 x 12.4 | 215 x 315 | SEF | Y# | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting. #Detected as 8.5 x 13 |
| - | 8.66 x 13 | 220 x 330 | SEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting. |
| - | 8.75 x 11.69 | 223 x 297 | SEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting. |
| - | 8.75 x 11.69 | 223 x 297 | LEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting. |
| Arch A | 9 x 12 | 229 x 305 | SEF | Υ | Y | N | U* | U* | U* | U | U | U | *Detected as ISO A4 or 8.5 x 13 depending on NVM 1 setting. |
| SB4 | 9.92 x 14.09 | 252 x 258 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |
| SB4 | 9.92 x 14.09 | 252 x 258 | LEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |
| Accounting | 10 x 14 | 254 x 356 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |
| - | 10 x 15 | 254 x 381 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |
| 8K Taiwan | 10.51 x 15.28 | 267 x 388 | SEF | Υ | Υ | N | U* | U* | U* | U | U | U | *Detected as ISO B4 |

Table 6 2K LCSS output paper sizes

| Paper Size | | | Orientation | Output | • | Staple Po | sition | Option | |
|---------------------|--------------|------------|-------------|--------|-------|-----------|--------|--------|------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Front | Rear | Dual | Hole Punch (All Types) |
| Letter | 8.5 x 11 | 216 x 279 | SEF | Υ | Υ | Y | Υ | N | Υ |
| Letter | 8.5 x 11 | 216 x 279 | LEF | Υ | Υ | Υ | N | Υ | Υ |
| Ledger | 11 x 17 | 279 x 432 | SEF | Υ | Y | Υ | N | Υ | Υ |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | SEF | Υ | Υ | Υ | N | N | N |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | LEF | Υ | Y | Υ | Υ | N | Υ |
| 5.5 x 7 | 5.5 x 7 | 140 x 178 | SEF | Υ | Y | N | N | N | Υ |
| 5.5 x 7 | 5.5 x 7 | 140 x 178 | LEF | Υ | Υ | N | N | N | Υ |
| Postcard | 4.25 x 5.5 | 108 x 140 | SEF | Υ | N | N | N | N | N |
| Postcard | 4.25 x 5.5 | 108 x 140 | LEF | N | N | N | N | N | N |
| Legal | 8.5 x 14 | 216 x 356 | SEF | Υ | Υ | Υ | Υ | N | Υ |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | SEF | Υ | Υ | Υ | Υ | N | N |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | LEF | Υ | Υ | Υ | N | Y | Υ |

Table 6 2K LCSS output paper sizes

| Paper Size | | | Orientation | Output | | Staple Po | sition | Option | |
|------------------------|---------------|------------|-------------|--------|-------|-----------|--------|--------|------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Front | Rear | Dual | Hole Punch (All Types) |
| ISO A3 | 11.69 x 16.54 | 297 x 420 | SEF | Υ | Υ | Υ | N | Υ | Υ |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | SEF | Υ | Υ | Υ | N | N | N |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | LEF | Υ | Υ | Υ | N | N | N |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | SEF | Υ | N | N | N | N | N |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | LEF | N | N | N | N | N | N |
| Foolscap or Euroletter | 8.5 x 13 | 216 x 330 | SEF | Υ | Y | Υ | Υ | N | Υ |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | SEF | Υ | Y | Υ | N | N | N |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | LEF | Υ | Y | Υ | N | N | N |
| JIS B4 | 10.12 x 14.33 | 257 x 364 | SEF | Υ | Y | Υ | N | N | N |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | SEF | Υ | N | N | N | N | N |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | LEF | N | N | N | N | N | N |
| ISO B5 | 6.93 x 9.84 | 176 x 250 | SEF | Y | Y | Υ | N | N | N |
| ISO B5 | 6.93 x 9.84 | 176 x 250 | LEF | Y | Y | Υ | N | N | N |
| ISO B4 | 9.84 x 13.9 | 250 x 353 | SEF | Υ | Y | Υ | N | N | N |
| ISO B4 | 9.92 x 14.09 | 252 x 358 | SEF | Υ | Y | Υ | N | N | N |
| ISO A4 Cover or Tab | 8.78 x 11.69 | 297 x 223 | SEF | Υ | Y | Υ | N | N | N |
| ISO A4 Cover or Tab | 8.78 x 11.69 | 297 x 223 | LEF | Υ | Υ | Υ | N | N | N |
| Letter Cover or Tab | 9 x 11 | 229 x 279 | SEF | Υ | Υ | Υ | N | N | N |
| Letter Cover or Tab | 9 x 11 | 229 x 279 | LEF | Υ | Υ | Υ | N | N | N |
| Postcard-Lakes | 4.5 x 6 | 114 x 152 | SEF | Υ | N | N | N | N | N |
| Postcard-Lakes | 4.5 x 6 | 114 x 152 | LEF | N | N | N | N | N | N |
| Postcard | 5 x 7 | 127 x 178 | SEF | Υ | N | N | N | N | N |
| Postcard | 5 x 7 | 127 x 178 | LEF | N | N | N | N | N | N |
| Oufuku-Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | SEF | Υ | Y | Υ | N | N | N |
| Oufuku-Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | LEF | Υ | Υ | Υ | Υ | N | N |
| 6 x 9 inch | 6 x 9 | 152 x 229 | SEF | Υ | Υ | Υ | N | N | N |
| 6 x 9 inch | 6 x 9 | 152 x 229 | LEF | Υ | Υ | Υ | N | N | N |
| Royal Octavo | 6 x 9.5 | 152 x 241 | SEF | Υ | Υ | Υ | N | N | N |
| Royal Octavo | 6 x 9.5 | 152 x 241 | LEF | Υ | Υ | Υ | N | N | N |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | SEF | Υ | Υ | Υ | N | N | N |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | LEF | Υ | Υ | Υ | Υ | N | N |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | SEF | Υ | Υ | N | N | N | N |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | LEF | Υ | Υ | Υ | N | N | N |
| Executive | 7.25 x 10.5 | 184 x 267 | SEF | Υ | Υ | N | N | N | N |
| Executive | 7.25 x 10.5 | 184 x 267 | LEF | Υ | Y | Υ | N | N | N |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | SEF | Υ | Υ | Υ | N | N | N |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | LEF | Υ | Υ | Υ | N | N | N |
| Quarto | 8 x 10 | 203 x 254 | SEF | Υ | Υ | Υ | Υ | N | N |
| Quarto | 8 x 10 | 203 x 254 | LEF | Υ | Υ | Υ | N | N | N |

Table 6 2K LCSS output paper sizes

| Paper Size | | | Orientation | Output | | Staple Po | sition | | Option |
|----------------|---------------|------------|-------------|--------|-------|-----------|--------|------|------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Front | Rear | Dual | Hole Punch (All Types) |
| - | 8 x 10.5 | 203 x 267 | SEF | Υ | Υ | Υ | Υ | N | N |
| - | 8 x 10.5 | 203 x 267 | LEF | Υ | Υ | Υ | N | N | N |
| - | 8 x 13 | 203 x 330 | SEF | Υ | Υ | Υ | Y | N | N |
| - | 8.26 x 10 | 210 x 254 | SEF | Υ | Υ | Υ | Υ | N | N |
| - | 8.26 x 10 | 210 x 254 | LEF | Y | Υ | Y | N | N | N |
| = | 8.26 x 10.63 | 210 x 270 | SEF | Υ | Υ | Υ | Y | N | N |
| - | 8.26 x 10.63 | 210 x 270 | LEF | Y | Υ | Y | N | N | N |
| Foolscap Folio | 8.25 x 13.06 | 209 x 333 | SEF | Y | Υ | Y | Y | N | N |
| | 8.26 x 13 | 210 x 330 | SEF | Y | Υ | Y | Y | N | N |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | SEF | Y | Υ | Y | Y | N | N |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | LEF | Υ | Υ | Υ | N | N | N |
| - | 8.46 x 10.83 | 215 x 275 | SEF | Y | Υ | Y | Y | N | N |
| - | 8.46 x 10.83 | 215 x 275 | LEF | Y | Υ | Y | N | N | N |
| Folio (Spain) | 8.46 x 12.4 | 215 x 315 | SEF | Υ | Υ | Υ | Y | N | N |
| - | 8.66 x 13 | 220 x 330 | SEF | Y | Υ | Y | Y | N | N |
| - | 8.75 x 11.69 | 223 x 297 | SEF | Y | Υ | Y | N | N | N |
| - | 8.75 x 11.69 | 223 x 297 | LEF | Υ | Υ | Υ | N | Υ | Υ |
| Arch A | 9 x 12 | 229 x 305 | SEF | Υ | Υ | Y | N | N | N |
| SB4 | 9.92 x 14.09 | 252 x 358 | SEF | Υ | Υ | Y | N | N | N |
| Accounting | 10 x 14 | 254 x 356 | SEF | Υ | Υ | Y | N | N | N |
| - | 10 x 15 | 254 x 381 | SEF | Υ | Υ | Y | N | N | N |
| 8K Taiwan | 10.51 x 15.28 | 267 x 388 | SEF | Υ | Y | Υ | N | N | N |

Table 7 LVF BM output paper sizes

| Paper Size | | | Orientation | Output | Output | | | ion | | | Option |
|---------------------|--------------|------------|-------------|--------|--------|-------|------------|-----------------|------|------|---------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Bin 2 | Front Edge | Front Corner | Dual | Rear | Hole Punch (All Types) |
| Letter | 8.5 x 11 | 216 x 279 | SEF | Υ | Y | Y | Υ | Υ | N | Υ | Y |
| Letter | 8.5 x 11 | 216 x 279 | LEF | Υ | Υ | N | Υ | Υ | Υ | N | Y |
| Ledger | 11 x 17 | 279 x 432 | SEF | Υ | Υ | Υ | Υ | Υ | Υ | N | Y |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Invoice (statement) | 8.5 x 5.5 | 216 x 140 | LEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| Postcard | 4.25 x 5.5 | 108 x 140 | SEF | Υ | N | N | N | N | N | N | N |
| Postcard | 4.25 x 5.5 | 108 x 140 | LEF | N | N | N | N | N | N | N | N |
| Legal | 8.5 x 14 | 216 x 356 | SEF | Υ | Υ | Υ | Υ | Υ | N | Υ | Y |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | SEF | Υ | Υ | Υ | Υ | Υ | N | Υ | N |
| ISO A4 | 8.26 x 11.69 | 210 x 297 | LEF | Υ | Υ | N | Υ | Υ | Υ | N | Υ |

Table 7 LVF BM output paper sizes

| Paper Size | | | Orientation | Output | | | Staple Posit | ion | | | Option |
|------------------------|---------------|-------------|-------------|--------|-------|-------|--------------|-----------------|------|------|---------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Bin 2 | Front Edge | Front Corner | Dual | Rear | Hole Punch (All Types) |
| ISO A3 | 11.69 x 16.54 | 297 x 420 | SEF | Υ | Υ | Υ | Υ | Υ | Υ | N | Υ |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| ISO A5 | 5.83 x 8.27 | 148 x 210 | LEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | SEF | Υ | N | N | N | N | N | N | N |
| ISO A6 | 4.13 x 5.83 | 105 x 148 | LEF | N | N | N | N | N | N | N | N |
| Foolscap or Euroletter | 8.5 x 13 | 216 x 330 | SEF | Υ | Υ | Υ | Υ | Υ | Υ | N | Υ |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| JIS B5 | 7.17 x 10.12 | 182 x 257 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| JIS B4 | 10.12 x 14.33 | 257 x 364 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | SEF | Υ | N | N | N | N | N | N | N |
| JIS B6 | 5.08 x 7.17 | 128 x 182 | LEF | N | N | N | N | N | N | N | N |
| ISO B6 | 4.92 x 6.93 | 125 x 176 | SEF | Υ | N | N | N | N | N | N | N |
| ISO B5 | 9.84 x 6.93 | 250 x 176 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| ISO B5 | 6.93 x 9.84 | 176 x 250 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| ISO B4 | 9.84 x 13.9 | 250 x 353 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| SB4 | 9.92 x 14.09 | 252 x 358 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| ISO A4 Cover | 8.78 x 11.69 | 297 x 223 | SEF | Υ | Υ | N | Υ | Υ | N | N | Υ |
| ISO A4 Cover | 8.78 x 11.69 | 297 x 223 | LEF | Υ | Υ | N | Υ | Υ | N | N | Υ |
| Letter Cover | 9 x 11 | 229 x 279 | LEF | Υ | Υ | N | Υ | Υ | N | N | Υ |
| Postcard Lakes | 4.5 x 6 | 114 x 152 | SEF | Υ | N | N | N | N | N | N | N |
| Postcard Lakes | 4.5 x 6 | 114 x 152 | LEF | N | N | N | N | N | N | N | N |
| Postcard | 5 x 7 | 127 x 178 | SEF | Υ | N | N | N | N | N | N | N |
| Postcard | 5 x 7 | 127 x 178 | LEF | Υ | N | N | N | N | N | N | N |
| Postcard | 5.5 x 7 | 139.7 x 178 | SEF | Υ | N | N | N | N | N | N | N |
| Postcard | 5.5 x 7 | 139.7 x 178 | LEF | Υ | N | N | N | N | N | N | N |
| Oufuku-Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Oufuku-Hagaki Postcard | 5.83 x 7.87 | 148 x 200 | LEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| 6 x 9 inch | 6 x 9 | 152 x 229 | SEF | Υ | Υ | N | N | Υ | N | N | N |
| 6 x 9 inch | 6 x 9 | 152 x 229 | LEF | Υ | Υ | N | N | Υ | N | N | N |
| Royal Octavo | 6 x 9.5 | 152 x 241 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Royal Octavo | 6 x 9.5 | 152 x 241 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | SEF | Υ | Υ | N | Y | Υ | N | N | N |
| Foolscap Quarto | 6.5 x 8.25 | 165 x 206 | LEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Crown Quarto | 7.25 x 9.5 | 184 x 241 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Executive | 7.25 x 10.5 | 184 x 267 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Executive | 7.25 x 10.5 | 184 x 267 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | SEF | Υ | Υ | N | N | Υ | N | N | N |

Table 7 LVF BM output paper sizes

| Paper Size | | | Orientation | Output | | | Staple Posit | ion | | | Option |
|----------------|---------------|------------|-------------|--------|-------|-------|--------------|-----------------|------|------|---------------------------|
| Common Name | Inch (W x L) | mm (W x L) | LEF/SEF | Bin 0 | Bin 1 | Bin 2 | Front Edge | Front Corner | Dual | Rear | Hole Punch (All Types) |
| 16K Taiwan | 7.64 x 10.51 | 194 x 267 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Quarto | 8 x 10 | 203 x 254 | SEF | Υ | Υ | N | N | Υ | N | Y | N |
| Quarto | 8 x 10 | 203 x 254 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| - | 8 x 10.5 | 203 x 267 | SEF | Υ | Y | N | Υ | Υ | N | Y | N |
| - | 8 x 10.5 | 203 x 267 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| - | 8 x 13 | 203 x 330 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| - | 8.26 x 10 | 210 x 254 | SEF | Υ | Y | N | Υ | Υ | N | Y | N |
| - | 8.26 x 10 | 210 x 254 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| - | 8.26 x 10.63 | 210 x 270 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| - | 8.26 x 10.63 | 210 x 270 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Foolscap Folio | 8.25 x 13.06 | 209 x 333 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| - | 8.26 x 13 | 210 x 330 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| Demi Quarto | 8.46 x 10.7 | 215 x 273 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| - | 8.46 x 10.83 | 215 x 275 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| - | 8.46 x 10.83 | 215 x 275 | LEF | Υ | Υ | N | Υ | Υ | N | N | N |
| Folio (Spain) | 8.46 x 12.4 | 215 x 315 | SEF | Υ | Υ | N | Υ | Υ | N | Υ | N |
| - | 8.66 x 13 | 220 x 330 | SEF | Υ | Υ | N | Υ | Υ | N | Y | N |
| - | 8.75 x 11.69 | 223 x 297 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| - | 8.75 x 11.69 | 223 x 297 | LEF | Υ | Y | N | Υ | Υ | Y | N | N |
| Arch A | 9 x 12 | 229 x 305 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| SB4 | 9.92 x 14.09 | 252 x 358 | SEF | Υ | Υ | N | Υ | Υ | Y | Υ | N |
| Accounting | 10 x 14 | 254 x 356 | SEF | Υ | Υ | Υ | Υ | Υ | N | N | N |
| - | 10 x 15 | 254 x 381 | SEF | Υ | Υ | N | Υ | Υ | N | N | N |
| 8K Taiwan | 10.51 x 15.28 | 267 x 388 | SEF | Υ | Y | N | Υ | Υ | N | N | N |
| - | 12 x 18 | 305 x 457 | SEF | Υ | N | N | N | N | N | N | N |
| SRA3 | 12.6 x 17.72 | 320 x 450 | SEF | Υ | N | N | N | N | N | N | N |
| Custom sizes | Various | Various | - | Υ | N | N | N | N | N | N | N |

Table 8 Output stock performance

| Stock Type | Trays 1 and 2 | Bypass | Trays 3 and 4 | Duplex | Offset | Stack | Staple | Hole Punch | Booklet Maker | Notes |
|---|------------------|--------|---------------|--------|--------|-------|--------|---------------|------------------|--|
| Bond/standard 70 gsm to 90 gsm (16lbs to 24lbs) | Υ | Υ | Υ | Υ | Υ | Y(1) | Y(2) | Υ | | (1) There may be some slight performance degradation if small documents are stacked on large. Stacking registration cannot be assured if |
| Index | Υ | Υ | Υ | Υ | Υ | Y(1) | Y(2) | Υ | | large documents are stacked on small. |
| Recycled | Υ | Υ | Υ | Υ | Υ | Y(1) | Y(2) | Υ | Υ | (2) For stapled sets, staple build up may affect stack quality. |

Table 8 Output stock performance

| Stock Type | Trays 1 and 2 | Bypass | Trays 3 and 4 | | Offset | Stack | Staple | Hole Punch | Booklet Maker | Notes |
|---------------------------------|------------------|--------|---------------|---|--------|---------|--------|---------------|------------------|--|
| Transparency (non paper backed) | N | Y | N | N | Y(1) | Y(1) | N | N | N | (1) An increase in set scatter or set to set registration may occur with greater than 20 sheets. |
| Transparency (paper backed) (2) | N | Y | N | N | Y(1) | Y(1) | N | N | N | (1) An increase in set scatter or set to set registration may occur with greater than 20 sheets.(2) Must be fed with sealed edge leading. Must not be inverted. |
| Labels (1) | Υ | Υ | N | N | N | N | N | N | N | (1) 2K LCSS and LVF BM = top tray only. |
| Card stock, 120 gsm to 200 gsm | Υ | Υ | Υ | Υ | Υ | Y(1) | Υ | Υ | Y(2) | (1) Pro-rata reduction in capacity with weight of stock. |
| Card stock, 200 gsm to 216 gsm | N | Y | N | Υ | N | Υ | Y(1) | Y | Y(2) | (2) One cover may be included within the quoted sheet capacity consistent with paper weight of the body of the booklet. |
| Punched | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | N | - |
| Envelopes (1) | Υ | Y | N | N | N(2) | N | N | N | N | (1) Must not be inverted. (2) 2K LCSS = Top tray only. |
| Carbonless paper | N | Y | Y(3) | N | N(1) | Y(1)(2) | N | N | N | (1) LCSS = top tray only (2) Except for hospital labels SEF (3) Degraded performance |

Table 9 Input document material definitions

| Category | Material | Image Type |
|--|---|---|
| Group I. Common usage input | 80 gsm (20lb.) to 120gsm (32lb.) or equivalent weight range (rag bond offset and ledger paper). This group includes 4040 paper. | Impact typewriter, offset image, Xerographic image, gravure image, Letter-press image, pencil 2H or harder, ballpoint pen, ink pen |
| Group II. Heavyweight common usage input. | 121gsm (32.1lb.) to 200gsm (110lb.) index or equivalent weight range (rag bond and ledger paper). | Impact typewriter, offset image, Xerographic image, gravure image, Letter-press image, pencil 2H or harder, ballpoint pen, ink pen |
| Group III. Lightweight common usage input. | 60gsm (16lb) to 79gsm (19.9lb.) bond or equivalent weight range (rag bond, offset, mimo/duplicator, and NCR paper). | Impact typewriter, offset image, Xerographic image, gravure image, Letter- press image, pencil 2H or harder, ballpoint pen, ink pen |
| Group IV. Common surface finished paper | 60gsm (16lb) to 200gsm (110lb.) index or equivalent (Bristol text, magazine, cover, vellum, safety paper) | Impact typewriter, offset image, Xerographic image, gravure image, Letter- press image, pencil 2H or harder, ballpoint pen, ink pen |
| | 80 gsm (20lb.) to 200gsm (110lb.) or equivalent weight: plastic laminated paper: metallic cover stock: tag stock: plastic transparencies: Telecopier paper: label stock: silver photographic paper: Electrofax paper (ZnO) race-erase: paste ups with loose edges type 1, 2 and 3: XE approved punched or perforated stock: Continuous computer forms | Impact typewriter, offset image, Xerographic image, gravure image, Letter- press image, pencil 2H or harder, ballpoint pen, ink pen. Liquid developed electrostatic image |
| Group VI. Lightweight input | 49gsm (13lb.) to 59gsm 15.9lb.) bond or equivalent weight range (rag bond, ledger mimeo or GSE papers) | Impact typewriter, offset image, Xerographic image, gravure image, Letter-press image, pencil 2H or harder, ballpoint pen, ink pen |
| Group VII | 34gsm (9lb) to 48gsm (12.9lb) bond or equivalent weight range (rag bond, ledger mimeo or GSE papers) | Impact typewriter, offset image, Xerographic image, gravure image, Letter- press image, pencil 2H or harder, ballpoint pen, ink pen |

Table 10 Input document quality definitions

| Defect | Acceptable | Marginal | Unacceptable | Notes |
|--|--|---|--|--|
| Holes | Maximum of 3 cleanly punched holes up to 6mm. (0.25 inch) diameter | 4 to 9 cleanly punched holes | Rough or torn holes | - |
| Staples | Cleanly removed staples | Poorly removed staples resulting in dog-ears* | Staples not removed | |
| Edge defects | None | 1 7 | Any cut or tear not at a corner or greater than 3 mm. (0.125 inch) in length | - |
| Folds* (in the feed direction) | 2 letter folds less than 1.5 mm. (0.062 inch) high | 2 letter folds less than 3mm. (0.125 inch) high | Any fold greater than 3mm. (0.125 inch) high | * Folds must be flattened to within 6mm (0.25 inch) height before plac- ing in the input device |
| Folds* (across the feed direc- tion) | None | 1 fold not to exceed 3mm. (0.125 inch) high | Any fold greater than 3mm. (0.125 inch) high | * Folds must be flattened to within 6mm (0.25 inch) height before plac- ing in the input device |
| Curl (measured from a flat surface) | None | In-ream or inherent curl up to 13mm. (0.5 inch) maximum | Curl greater than 13mm | |
| Wrinkle | None | ' | Severe wrinkles greater than 38mm. (1.5 inch) long in any direction, greater than 3mm. (0.125 inch) in height | - |
| Foreign material on the surface | None | Hole reinforcement, correction fluid or dry glue no greater than 13 square millimeters. (0.02 square inch) per correction | Correction tape major paste-up or correction fluid greater than 13 square millimeters. (0.02 square inch) per correction | - |
| Bent corners ("dog-ears")* | No bent corners | 1 bent corner up to 75mm. (3 inch) diagonal length | 1 or more bent corner exceeding 75mm. (3 inch) diagonal length | * Dog ears must be flattened to within 6mm (0.25 inch) height before plac- ing in the input device |
| Computer fan fold sheets | - | Perforated tractor feed edges cleanly removed | Perforated tractor feed edges not removed | - |

Envelope Specifications

Tray 2 (With Optional Kit):

Refer to Table 11 and Table 12 for the envelope sizes that can be fed from tray 2 if the optional envelope kit is installed.

Table 11 European envelope sizes

| ID | Size | Flap Minimum Length | Flap Maximum Length | Feed Orientation |
|----|--------------------------------|---------------------|---------------------|--|
| DL | 110 x 220mm (4.33 x 8.66 inch) | 25mm (1.0 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face up |
| C5 | 162 x 229mm (6.38 x 9.02 inch) | - | , , | LEF, open trailing flap or closed outboard flap, printable face up |

Table 12 American envelope sizes

| ID | Size | Flap Minimum Length | Flap Maximum Length | Feed Orientation |
|-----------------|-------------------------------|---------------------|---------------------|---|
| 7 3/4 (Monarch) | 98 x 190mm (3.87 x 7.5 inch) | 36mm (1.4 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face up |
| 9 | 98 x 225mm (3.87 x 8.87inch) | 36mm (1.4 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face up |
| 10 | 105 x 241mm (4.12 x 9.5 inch) | 29mm (1.1 inch) | 55mm (2.1 inch) | SEF, closed leading flap, printable face up |

Bypass tray:

Refer to Table 13 and Table 14 for the envelope sizes that can be fed from the bypass tray.

Table 13 European envelope sizes

| ID | Size | Flap Minimum Length | Flap Maximum Length | Feed Orientation |
|----|--------------------------------|---------------------|---------------------|--|
| DL | 110 x 220mm (4.33 x 8.66 inch) | 25mm (1.0 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face down |
| C5 | 162 x 229mm (6.38 x 9.02 inch) | - | , , | LEF, open trailing flap or closed outboard flap, printable face down |

Table 14 American envelope sizes

| ID | Size | Flap Minimum Length | Flap Maximum Length | Feed Orientation |
|-----------------|-------------------------------|---------------------|---------------------|--|
| 7 3/4 (Monarch) | 98 x 190mm (3.87 x 7.5 inch) | 36mm (1.4 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face down |
| 9 | 98 x 225mm (3.87 x 8.87 inch) | 36mm (1.4 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face down |
| 10 | 105 x 241mm (4.12 x 9.5 inch) | 29mm (1.1 inch) | 55mm (2.1 inch) | LEF, open trailing flap, printable face down |

NOTE: All sizes quoted are with the flap closed. Except for C5 envelopes, only envelopes with flaps on the long edge are acceptable. Envelopes must not be inverted. Some wrinkle is expected on the back of envelopes.

- No gusset type.
- No padded.
- No 'peel and seal'.

Acceptable flap types:

- Diamond/Banker.
- Pocket.
- Wallet.

Weight:

- Lightweight.
- Medium weight.

Acceptable sealing:

- · Gummed.
- Press and seal.

Exclusions:

- No windows.
- No board backed.

GP 21 Installation Space Requirements

Purpose

To outline the general space requirements to enable safe use and adequate access for service.



Do not work in a confined space. 1 m (39 inches) space is needed for safe working.



USA and Canada. Do not install this machine in a hallway or exit route that does not have 1.12 m (44 inches) of space additional to the normal space requirements in front of the machine. To conform with fire regulations this additional 1.12 m (44 inches) of space is needed in front of the machine in hallway and exit routes.

Machine Height

- Machine height with the SPDH lowered = 1150mm (45.2 inches).
- Machine height with the SPDH raised = 1510mm (59.4 inches).

Machine Weight

Fully configured machine weight = 120kg (264.5lb).

Finishers

- 2K LCSS = 29.5kg (65lb).
- LVF BM = 45.4kg (100 lb).

Machine Dimensions and Installation Space Requirements

Table 1 shows the dimensions of the WorkCentre 5945/5955 machines and the installation space required for safe operation.

NOTE: The installation dimensions in Table 1 allow for a 1 metre (39.4 inches) minimum safety work space around the machine. To acquire this minimum safety work space, it may be necessary to move the machine within the area specified.

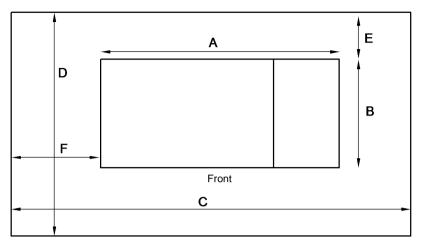
A gap of 100mm (4 inches) is required at the rear for airflow to fans. This is also sufficient for the SPDH when raised. A gap of 440mm (17 inches) is required to the left of the machine to allow the left door to open.

Figure 1 represents a plan view of a machine installation and is to be read in conjunction with Table 1. The dimensions A and B outline a footprint of the machine within the boundary of safe operation, dimensions C and D. The dimension E indicates the area required for airflow/work space at the rear of the machine. The dimension F indicates the area required to open the left door.

NOTE: The required install width (dimension C) includes the extra space required (dimension F) to open the left door.

Table 1 Dimensions and space requirements

| | Machine Width | Machine Depth | Install Width Required (C) mm/inches | | Install Depth Required (D) mm/inches | | Install Airflow/Service Work Space (E) mm/inches | | Left Door Access Space (F) mm/ inches |
|--------------------------------|---------------|---------------|--------------------------------------|--------------|--------------------------------------|------------|--|-------------|---|
| Configuration | (A) mm/inches | (B) mm/inches | Moveable | Fixed | Moveable | Fixed | Moveable | Fixed | |
| Basic machine without finisher | 850 / 33.5 | 665 / 26.2 | 2043 / 80.4 | 3043 / 119.8 | 1665 / 65.5 | 2665 / 105 | 100 / 4 | 1000 / 39.4 | 440 / 17 |
| Basic machine with 2K LCSS | 1470 / 57.8 | 665 / 26.2 | 2663 / 104.8 | 3663 / 144.2 | 1665 / 65.5 | 2665 / 105 | 100 / 4 | 1000 / 39.4 | 440 / 17 |
| Basic machine with LVF BM | 1530 / 60.2 | 665 / 26.2 | 2723 / 107.2 | 3723 / 146.6 | 1665 / 65.5 | 2665 / 105 | 100 / 4 | 1000 / 39.4 | 440 / 17 |



W-1-1172-A

Figure 1 Installation plan

GP 22 Electrical Power Requirements

Power Requirements

Refer to Table 1 and Table 2.

Table 1 Electrical power requirements

| Nominal Voltage | Average Current | Comments |
|------------------------------------|--------------------------------|--|
| 110VAC (60Hz) Plus 6% minus 10% | Less than or equal to 15A RMS. | Specific XLA markets only. |
| 127VAC (60Hz) Plus 6% minus 10% | Less than or equal to 15A RMS. | Mandatory for Saudi Arabia only. |
| 127VAC (60Hz) Plus 6% minus 10% | Less than or equal to 15A RMS. | To operate at 127VAC +10% for long periods. Mandatory for Mexico only. |
| 120VAC (60Hz) Plus 6% minus 10% | Less than or equal to 12A RMS. | Run mode, USA and Canada. |
| 120VAC (60Hz) Plus 6% minus 10% | Less than or equal to 15A RMS. | Warm up, All 60Hz markets including USA and Canada. |
| 220VAC (50Hz) Plus 6% minus 10% | Less than or equal to 10A RMS. | Europe and other 50Hz markets. |
| 230VAC (50Hz) Plus 6% minus 10% | Less than or equal to 10A RMS | Europe and other 50Hz markets. |
| 240VAC (50Hz) Plus 6% minus 10% | Less than or equal to 10A RMS. | Europe and other 50Hz markets. |

Power Save Modes

There are 2 power save modes which are entered after pre-set timers have expired, Low Power Mode and Sleep Mode. Both of these power modes are initially set to factory default time values but are customer adjustable.

Entry into low power and sleep modes is controlled by 1 of 2 supported power save settings, Job Activated and Intelligent Ready. The default is Intelligent Ready but this is selectable by the customer.

Low Power Mode

This state is identified by the UI power button LED being pulsed on/off every 2 seconds with the LCD backlight off. Recovery from this mode to standby/ready is from either pressing the UI power button or an incoming fax or print job. The machine does not wake from low power mode upon insertion of a USB drive.

Sleep Mode

This mode is identified by the UI power button LED being continuously lit with the LCD backlight off. Recovery from this mode to standby/ready is from either pressing the UI power button or an incoming fax and or print job. The machine does not wake from low power mode upon insertion of a USB drive.

Job Activated

Automatically enters low power mode after a period of inactivity exceeds a timer value. The timer value is preset but is adjustable by the customer in the range 1 to 120 minutes. Automatically enters sleep mode after a period of inactivity exceeds a timer value whilst in low power mode. The timer value is preset but is adjustable by the customer in the range 1 to 120 minutes.

Intelligent Ready

Automatically enters low power mode after a period of inactivity exceeds a timer value. The default value for the timer is preset but it is adjusted automatically by the system based on customer usage. Automatically enters sleep mode after a period of inactivity exceeds a timer value whilst in low power mode. The default value for the timer is preset but it is adjusted automatically by the system based on a customer usage.

Table 2 Default settings

| Speed | Standby to Low Power Mode (mins.) | Low Power Mode to Sleep Mode (mins.) | | |
|--------|-----------------------------------|---|--|--|
| 45 ppm | 1 | 1 | | |
| 55 ppm | 1 | 1 | | |

Power consumption

Refer to Table 3 for power the consumption in all modes.

Table 3 Power consumption in all modes

| Configuration | Run (Watt) | Standby (Watt) | Low Power (Watt) | Sleep (Watt) | | EPA Typical Energy Consumption Value (Kwh/week) |
|------------------------------|------------|----------------|------------------|--------------|---------------------------|--|
| 45ppm | 1150 | 290 | Less than 125 | | Less than or equal to 0.9 | 5.7 |
| 55ppm | 1250 | 290 | Less than 125 | | Less than or equal to 0.9 | 6.7 |
| Additional power for 2K LCSS | 80 | 10 | 0 | 0 | 0 | N/A |
| Additional power for LVF BM | 80 | 10 | 0 | 0 | 0 | N/A |

GP 23 Environmental Data

Operating

- Temperature range: 10 to 32 degrees C (50 to 90 degrees F).
- Relative humidity: 95% maximum for primary insulation systems only.
- Noise:

NOTE: Blue Angel Europe criteria measured in accordance with RAL-UZ 122.

- Table 1 contains the maximum value in decibels of noise that can be generated by the basic machine.
- Table 2 contains the maximum value in decibels of noise that can be generated by the machine in other configurations.

Table 1 Maximum noise limits, basic machine

| PPM | Standby (dBA) | Run Continuous (dBA) | Run Impulse (dBA) |
|-----|---------------|----------------------|-------------------|
| 45 | 35 | 56 | 59 |
| 55 | 35 | 56 | 61 |

Table 2 Maximum noise limits, all configurations

| PPM | Standby (dBA) | Run continuous (dBA) | Run Impulse (dBA) |
|-----|---------------|----------------------|-------------------|
| 45 | 35 | 59 | 63 |
| 55 | 35 | 59 | 63 |

Altitude: 0 to 3200 metres (0 to 10500 feet).

Storage

Temperature and humidity range:

- 55 degrees C (131 degrees F) 85% RH max.
- -25 degrees C (-13 degrees F) 15% RH max.

GP 24 Customer Administration Tools

Purpose

To gain access to Customer Administration Tools pathway on the UI.

How to Enter Customer Administration Tools

Perform the steps that follow:

- 1. Switch on the machine, GP 14.
- When the machine is ready, press the Login/Logout (key symbol) button on the control panel.
- The Authentication Required screen displays. Enter user name 'admin' (case sensitive).
 Select Next.
- Enter the password '1111' (default setting). Select **Done**. If the password is not 1111, ask
 the customer for the current password. If the customer does not know the password, go to
 Admin Password Reset.
- Press the Machine Status button.
- Select the **Tools** tab, the tools pathway menus are displayed.

NOTE: After entering Customer Administration Tools, all existing copy jobs are cancelled. The network controller will stop accepting jobs and a 'Offline' screen message is displayed. When exiting Customer Administration Tools, an 'Online' screen message is displayed.

The Customer Administration Tools feature contents are listed below:

- Device Settings:
 - General...
 - Paper Measurement...
 - Timers...
 - Input...
 - Output...
 - Supplies...
 - Device Software Upgrade...
 - Quick Setup Home...
 - Display Brightness...
 - Configuration/Information Pages...
 - Reset UI to Factory Settings...
 - Interrupt Printing Enablement...
- Service Settings:
 - Service Registration...
 - Device Address Book...
 - Copy Service...
 - ID Card Copy Service...
 - Embedded Fax Settings... (if installed).
 - Job Sheets...
 - Weblet Settings...
 - Service Plan...

- Network Settings:
 - Online/Offline...
 - Network Connectivity...
 - TCP/IP Settings...
 - Advanced Settings...
 - Network Logs...
 - USB Settings...
 - Display Network Settings...
- Accounting Settings:
 - Accounting Mode...
 - Copy Activity Report...
- Security Settings:
 - USB Port Security...
 - Audit Log...
 - Authorization...
 - Image Overwrite Security...
 - Change Admin Password...
 - IPsec...
 - Valid Recipients...
 - Display Network Settings...
- Troubleshooting:
 - Resets...
 - Network...
 - Fax... (if installed).

Call Closeout

Perform the steps that follow:

- 1. Select Admin in the top right corner of the UI to exit Customer Administration Tools.
- Select Logout.

Admin Password Reset

Resetting the admin password will require the information that follows:

- Physical access to the machine UI.
- The serial number of the machine.
- The current total page count on the machine.
- The ability for the customer to talk to someone at a Xerox Support office that has access
 to the utility or, for a Xerox person, to run the passcode reset utility.

NOTE: The utility runs with gsnlock so it can only be run by authorized Xerox employees. However, it is convenient for the Xerox person to run the utility in their office or on the laptop and give the customer the code over the phone.

The customer is encouraged to perform the actual reset. They can obtain the code for their particular machine from Xerox Support, or from a technician over the phone.

Xerox Support or the Xerox Technician must perform the steps that follow:

- 1. Run the utility Admin Password Reset Tool.
- 2. Enter the serial number of the device with no punctuation or spaces.

- 3. Enter the total page count from the device.
- Click on Calculate.
- 5. Note the 12 digit reset code.

The Customer at the device must perform the steps that follow:

- Press the Machine Status button.
- 2. Select Tools.
- Select General.
- Select Feature Installation.
- 5. Enter the 12 digit reset code obtained above.
- Select Enter.

If the reset code matches the correct one for that serial number and page count, the admin passcode will be reset to the factory default (1111).

NOTE: An entry is made in the customer audit log, if enabled and via e-mail alert to the System Administrator, and in engineering logs whether successful, or not.

The System Administrator has the ability to lock out this function so that it will not work. If they do that, an error message will appear stating that the System Administrator has disabled the function.

NOTE: The passcode formula has some flexibility on the page count in case the machine is used to print or copy while this reset code is being entered. However, if the machine is in heavy use it may be necessary to update the calculation as the page count changes.

GP 25 First Copy/Print Out Time and Power On/Off Time

The first copy out time (FCOT) is the duration from the start copy request to the delivery of the first copy in the centre output tray. Values in Table 1 are based on a standard job where the original is copied at 100% from the document glass or SPDH onto A4 LEF paper fed from the bypass tray.

The first print out time (FPOT) is the duration from the print job request to the delivery of the print in the centre catch tray. FPOT values in Table 1 are based on a 1 byte ASCII text file sent using TCP/IP and LPR, from a Pentium II 128Mb NT 4.0 PC with 100Mb Ethernet.

Table 1 Machine timing

| Description | Response Time | Notes |
|--|--|---|
| FCOT from the document glass | 3.4 seconds | A4 sheet, bypass tray to right side exit, no invert |
| FCOT from the SPDH | 7.3 seconds | A4 sheet, bypass tray to right side exit, no invert |
| FPOT | 7.0 seconds | A4 sheet, bypass tray to right side exit, no invert |
| Recovery from low power mode | Less than or equal to 10 seconds | From low power mode to ready to copy, print or fax |
| Recovery from sleep mode | Less than or equal to 28 seconds | From sleep mode to ready to print or copy |
| Power on time to ready to copy | Less than or equal to 3 minutes and 50 seconds | Ready to copy is indicated by the message "Ready to Scan" being displayed on the user interface |
| Power on time to ready to print | Less than or equal to 3 minutes and 50 seconds | Print is indicated by the message "Machine Online" being displayed on the user interface |
| Power on time to ready to fax | Less than or equal to 3 minutes and 42 seconds | Fax ready is indicated by the presence of the Fax icon being displayed on the user interface |
| Power off time, multi functional machine | Less than or equal to 36 seconds | - |
| Quick restart to ready to copy time | Less than or equal to 4 minutes and 31 seconds | From re-start option confirmed, to ready to copy |
| Quick restart to ready to print time | Less than or equal to 4 minutes and 31 seconds | From re-start option confirmed, to ready to print |
| Quick restart to ready to fax time | Less than or equal to 4 minutes and 23 seconds | From re-start option confirmed, to ready to fax |
| Recovery from sleep mode time | Less than or equal to 28 seconds | - |

GP 26 Restriction of Hazardous Substances (RoHS)

Purpose

To give information on the RoHS Directive.

The RoHS Directive restricts the use of certain hazardous substances in electrical and electronic equipment. It applies to equipment placed in the European Union (EU) market. The directive takes effect from 1st July 2006.

NOTE: Currently these restrictions are only for the European Union (EU) market and some associated countries. For more information go to www.Xerox.com. However, Xerox has mandated that all WorkCentre 5945/5955 machines must be maintained as RoHS compliant.

The hazardous substances are:

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent Chromium (Cr 6+, Cr [VI])
- Polybrominated Diphenyl Ethers (PBDE's)
- · Polybrominated Biphenyls (PBB's)

Identification of a RoHS Compliant Machine

Xerox will maintain a central list of RoHS compliant machines.

All WorkCentre 5945/5955 machines are RoHS compliant at time of manufacture.

Procedure



Failure to comply with RoHS guidelines can result in product recalls, imprisonment, fines or penalties.

Use only spares that are listed in the WorkCentre 5945/5955 Spare Parts List. Do not use spare parts from other similar machines, even if the parts look identical. All WorkCentre 5945/5955 machines are RoHS compliant at time of manufacture and must be maintained as RoHS compliant.

GP 27 Machine Configuration Control and Recovery Purpose

To install and maintain the core configuration parameters of the machine i.e, serial number, machine speed, market region and service plan.

The information that follows details the machine install and use of the Subscriber Identity Module (SIM), and the recovery methods for each of the core configuration parameters. Refer to GP 9 to identify the SIM card types.

NOTE: The Subscriber Identity Module (SIM) is also referred to as a Software Option Key (SOK) in some procedures within this service manual.

Prerequisite

For the recovery of the core configuration parameters, it is fundamental that all machines are delivered to the customer in a fully tested and defined state. This defined state includes a default speed, a valid serial number, default service plan, market region and machine class, set to match the configuration of the machine.

During the install procedure the copy, print, scan and fax services are not made available to the customer until a compatible SIM has been installed.

SIM and Machine Configuration

The install process sets the speed of the machine using a new un-serialised secure SIM card, programmed to set a single speed. When a SIM card is successfully used to set the speed of a machine the relevant NVMs are updated with the appropriate settings. The serial number of that machine is then written to that SIM card to prevent it being used on any another machine.

Once the core configuration parameters of the machine i.e, serial number, machine speed, market region and service plan have been set, they are stored in 3 physical locations i.e, hard disk, IOT PWB and the scanner PWB.

Two unique versions of SIM card are available for each speed of machine, i.e with PagePack enablement and without PagePack enablement. Refer to GP 9 Machine SIM Card Matrix.

Configuration Parameters and Machine Recovery

The core configuration parameters of a machine are stored in 3 different physical locations to safeguard them against being inadvertently lost, in the event of a failure or installation of a new hard disk. IOT PWB or scanner PWB. Refer to Precautions and Best Practises.

At power on the machine's system reconciles the core configuration parameters in all 3 locations. If all 3 locations report the same values the machine will continue with normal operation. If there are any discrepancies then the machine will implement a recovery procedure. If any 1 location should lose a value then the other locations will provide correction. Should any 2 locations lose their values the other locations may provide correction, Table 1.

NOTE: A copy of the CSS NVM data from the hard disk is also stored on the SD card. The CSS NVM data stored on the SD card is not used when the machine reconciles the core configuration parameters.

Table 1 Recovery matrix

| Hard Disk | IOT PWB | Scanner PWB | SIM | Machine Reaction |
|-----------|---------|-------------|-----|---|
| Α | Α | A | Α | None, machine is correct |
| В | Α | A | Α | Hard disk will be corrected |
| Α | В | A | Α | IOT PWB will be corrected |
| Α | Α | В | Α | Scanner PWB will be corrected |
| А | В | С | Α | Machine recovers from locked SIM speed only. Perform Manual Recovery from step 2. |

Key:

A = parameters are good and from the expected machine.

B = parameters are bad from a different machine.

C = parameters are bad from a different machine.

There are scenarios when the core parameters are not machine correctable, especially when a PWB containing NVM values is replaced with a PWB that has been previously installed on another machine, Table 2.

Table 2 Non recovery matrix

| Hard Disk | IOT PWB | Scanner PWB | SIM | Machine Reaction |
|-----------|---------|----------------|-----|---|
| А | В | С | | Machine stops and asks for the SIM to be inserted. Perform Manual Recovery. |

Key:

A = parameters are good and from the expected machine.

B = parameters are bad from a different machine.

C = parameters are bad from a different machine.

Manual Recovery

- 1. To recover the machine speed, insert either:
 - The locked SIM that was used during the installation of the machine.
 - A new unlocked blank SIM with a compatible speed for the machine's chassis type.
 Refer to dC132 Serial Number.

NOTE: If a new unlocked SIM is to be ordered and installed, check if the customer requires the PagePack service plan function, refer to GP 9.

- 2. To recover the machine's service plan, refer to dC136 Service Plan.
- 3. To recover the market region, refer to dC134 Market Region.

Precautions and Best Practises

- Do not remove the SIM card from the machine once installed.
- Do not replace more than one of the listed components at a time, without first switching on the machine after each replacement:

- Hard disk.
- IOT PWB.
- Scanner PWB.
- If a configuration problem occurs, use the dC routines to correct it.
- Save the NVM to an external USB pen drive prior to any major maintenance. Refer to dC361 NVM Save and Restore.
- Save the NVM regularly to the hard disk at a time when you know the machine is working
 well, e.g at the end of every service call. Refer to dC361 NVM Save and Restore.

GP 28 USB Connection Mode

Purpose

To set the USB connection mode.

NOTE: In order to use the CAT/PWS tools, the USB connection mode must be set to Software Tools.

Procedure

Perform the steps that follow:

- 1. Enter Customer Administration Tools, GP 24.
- 2. Press the Machine Status button.
- 3. Select Tools.
- 4. Select Network Settings.
- 5. Select USB Settings.
- 6. Select Software Tools.
- 7. Select Save.
- 8. Exit Customer Administration Tools, GP 24.

GP 29 Embedded Customer Documentation

Purpose

To explain how to print the embedded customer documentation.

Procedure

Perform the steps that follow:

- 1. Press the Machine Status button.
- 2. Select Machine Information.
- 3. Select Information Pages.
- 4. Select Quick Use Guide, then select Print.

GP 30 Tray 4 Control PWB Test Points

Purpose

To describe the functions of the test points located on the tray 4 PWB.

Description

Refer to Table 1 for a description of the test points available on the tray 4 control PWB. Refer to Figure 1 to locate the test points on the tray 4 control PWB.

Table 1 Tray 4 PWB Test Points

| Test Point | PJ | Pin | Component | Measure |
|---------------|-----|----------|--|--------------------------|
| TPD1 | N/A | N/A | Do not use | N/A |
| TPD2 | 159 | 1 | Tray 4 over elevate switch | Limit reached (H) +24V |
| | | | Tray 4 elevate motor, MOT74-010, return | Motor on (L) +24V |
| TPD3 | 155 | 11 | Tray 4 elevate motor, MOT74-010, enable | Elevate enabled (H) +5V |
| TPD4 | 159 | 3 | Tray 4 over elevate switch supply | +24V |
| | | 1 | Tray 4 elevate motor, MOT74-010, supply | |
| TPD5 | 155 | 7 | Tray 4 feed motor, MOT81-040, hold | N/A |
| TPD6 | 155 | 10 | Tray 4 feed motor, MOT81-040, enable | Feed enabled (L) +5V |
| TPD7 | 155 | 9 | Tray 4 feed motor, MOT81-040, clock | N/A |
| TPD8 | 155 | 8 | Tray 4 feed clutch, CL81-043, enable | Clutch energised (H) +5V |
| TPD9 | 156 | 4 | Tray 4 level encoder sensor, Q74-340, supply | +1.1V |
| TPD10 | 156 | 6 | Tray 4 level encoder sensor, Q74-340 | Pulses (L) +3.3V |
| TPD11 | 161 | 2 | Tray 4 exit sensor, Q81-150 | Paper present (L) +3.3V |
| TPD12 | 157 | 5 | Tray 4 feed sensor, Q81-104 | Paper sensed (L) +3.3V |
| TPD13 | 157 | 11 | Tray 4 home sensor, Q74-300 | Tray home (L) +3.3V |
| TPD14 | 157 | 8 | Tray 4 empty sensor, Q74-320 | Tray empty (H) +3.3V |
| TPD15 | 157 | 2 | Tray 4 stack height sensor, Q74-330 | Stack up (H) +3.3V |
| TPD33 | 155 | 12 13 | +5V supply to tray 4 control PWB | +5V |
| TPD34 | 162 | 6 | Tray 4 feed motor, MOT81-040, A+ | Pulses (L) |
| TPD35 | 162 | 5 | Tray 4 feed motor, MOT81-040, A- | Pulses (L) |
| TPD36 | 162 | 4 | Tray 4 feed motor, MOT81-040, B+ | Pulses (L) |
| TPD37 | 162 | 3 | Tray 4 feed motor, MOT81-040, B- | Pulses (L) |
| TPD38 | 158 | 1 | Power ground | Ground |
| TPD39 | N/A | N/A | Do not use | N/A |
| TPD40 | 158 | 2 | 24V from LVPS | +24V |
| TPD41 | 160 | 2 | Tray 4 feed clutch, CL81-043, 24V supply | +24V |
| | 162 | 1 | Tray 4 elevate motor, MOT74-010, 24V supply | |
| TPD42 | 162 | | Tray 4 feed clutch, CL81-043, enable | Energised (L) +24V |
| TPD43 | N/A | N/A | Tray 4 control PWB ground | Ground |

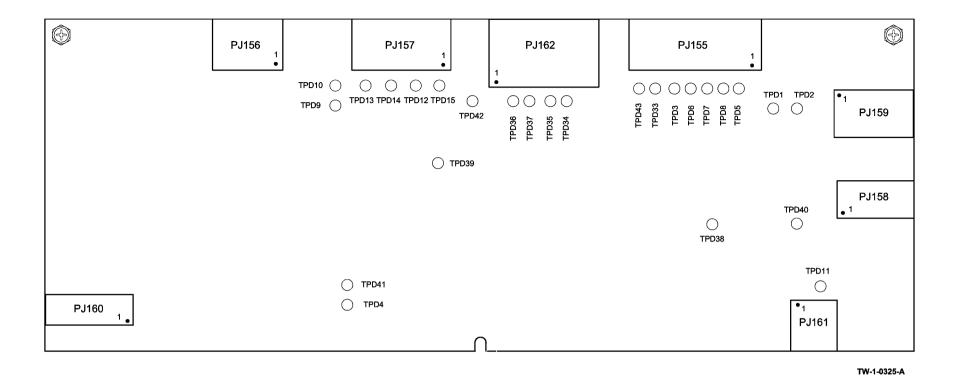


Figure 1 Tray 4 control PWB test points

GP 31 How to Set the Date and Time

Purpose

To set the machine's date and time.

Procedure

Perform the steps that follow:

- 1. Enter Customer Administration Tools, GP 24.
- 2. Press the Machine Status button.
- 3. Select the **Tools** tab.
- Select Device Settings.
- Select the General folder.
- 6. Select Date and Time.
- 7. Set the correct Time Zone, Date and Time, then select Save.
- 8. Log out of Customer Administration Tools.

GP 32 How to Enable HTTP

Purpose

To enable the hyper text transfer protocol (HTTP) networking protocol.

Procedure

Perform the steps that follow:

- 1. Enter Customer Administration Tools, GP 24.
- Press the Machine Status button.
- 3. Select the **Tools** tab.
- 4. Select Network Settings.
- Select Advanced Settings.
- 6. Select HTTP Settings.
- 7. Select Enable.
- 8. Select Save.
- Select Close.
- 10. Log out of Customer Administration Tools.

GP 33 How to Configure the PWS to Ping a Device Purpose

To configure the PWS to ping a device on a network.

Procedure

Perform the steps that follow:

- Set the IP address of the PWS one digit higher or lower than the device to be pinged. For example, if the IP address of the device is 192.168.10.15, set the PWS to 192.168.10.14 or 192.168.10.16. To set the IP address of the PWS, refer to GP 34.
- 2. Set the subnet mask of the PWS the same as the device to be pinged.
- 3. Open a command window. For Windows 7, go to Step 4. For Windows XP, go to Step 5.
- 4. Opening a command window in Windows 7 Only, perform the steps that follow:
 - a. Click on the Windows Start icon.
 - b. In the Search programs and files dialog box, type cmd.
 - c. Click on OK. A command window will open.
- 5. Opening a command window in Windows XP Only. perform the steps that follow:
 - a. Click on Start, then Run.
 - b. In the Run dialog box, type cmd.
 - Select return. A command window will open.
- 6. In the command window, type 'ping' and the address of the device. Refer to number 1 in Figure 1.
- 7. If the ping command is successful, a reply from the device will be received. Refer to number 2 in Figure 1.

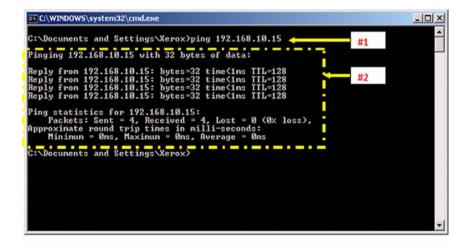
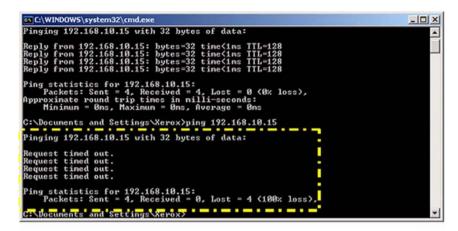


Figure 1 Successful ping command

8. If the ping command is unsuccessful, a timed out message will be received, Figure 2.



W-1-0875-A

Figure 2 Unsuccessful ping command

W-1-0874-A

GP 34 How to Set the IP Address of the PWS

Purpose

To set the IP address of the PWS.

Procedure

Go to the relevant procedure:

- Windows 7.
- Windows XP.

Windows 7

Perform the steps that follow:

- 1. Open Start / Control Panel / Network and Sharing Centre.
- From the left pane, select Change adapter settings.
- Right-click on the Local Area Connection icon. Select Properties. The Local Area Connection Properties window will open.
- 4. Highlight Internet Protocol Version 4 (TCP/IPv4). Select Properties, refer to Figure 1. The Internet Protocol Version 4 (TCP/IPv4) Properties window will open.

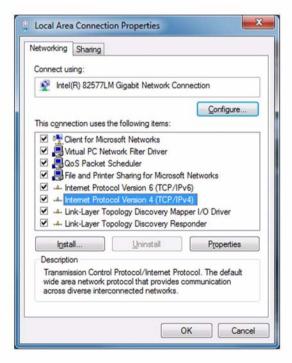
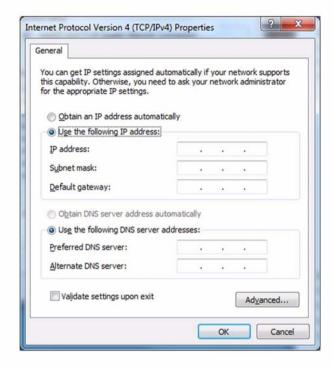


Figure 1 Properties window

5. Double-click the entry Internet Protocol Version 4 (TCP/IPv4).

6. Select Use the following IP address. Enter the IP address and subnet mask, Figure 2.



W-1-0877-A

Figure 2 Properties window

- Click on OK to close the properties dialog box, then OK to close the second properties dialog box.
- 8. Close the Local Area Connection Status dialog box.

Windows XP

Perform the steps that follow:

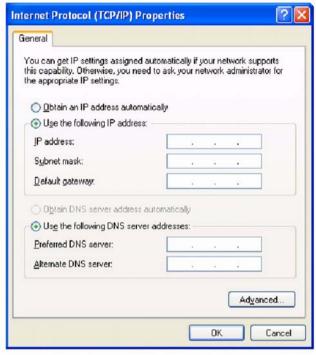
- Open Start / Control Panel / Network Settings.
- Right-click on Local Area Connection icon. Select Properties. The Local Area Connection Properties window will open.

W-1-0876-A

- 3. Highlight Internet Protocol (TCP/IP). Select Properties, refer to Figure 3. The Internet Protocol (TCP/IP) Properties window will open.
 - Local Area Connection Properties General Authentication Advanced Connect using: ■ Broadcom NetXtreme 57xx Gigabit C Configure. This connection uses the following items: QoS Packet Scheduler ▼ 3 Network Monitor Driver ✓ 3 Internet Protocol (TCP/IP) Install. Uninstall **Properties** Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication. across diverse interconnected networks. Show icon in notification area when connected Notify me when this connection has limited or no connectivity OK Cancel

Figure 3 Properties window

4. Select Use the following IP address. Enter the IP address and subnet mask, Figure 4.



W-1-0879-A

Figure 4 Properties window

- 5. Select OK to close the Internet Protocol (TCP/IP) Properties window.
- Select OK to close the Local Area Connection Properties window.

W-1-0878-A

GP 35 How to Change Ethernet Speed

Purpose

To change the machine's ethernet speed.

Procedure

Perform the steps that follow:

- 1. Enter Customer Administration Tools, GP 24.
- 2. Press the Machine Status button.
- 3. Select the **Tools** tab.
- Select Network Settings.
- Select Advanced Settings.
- 6. Select Ethernet Physical Media.
- 7. Select the speed, then **OK.**
- 8. Log out of Customer Administration Tools.

GP 36 How to Disable the Firewall of the PWS

Procedure

Go to the relevant procedure:

- Windows 7.
- Windows XP.

Purpose

To disable the firewall of the PWS.

Windows 7

Perform the steps that follow:

- 1. Open Start / Control Panel / Windows Firewall.
- 2. From the left pane, select Turn Windows Firewall on or off.
- Select all 3 Turn off Windows Firewall (not recommended) radio buttons to disable the windows firewall, Figure 1.

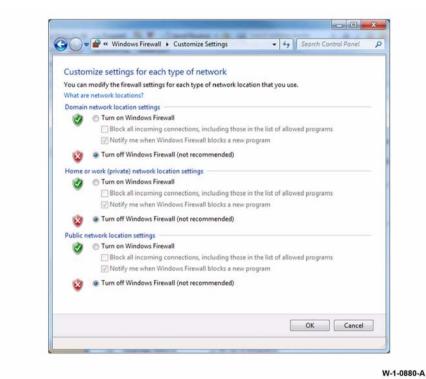


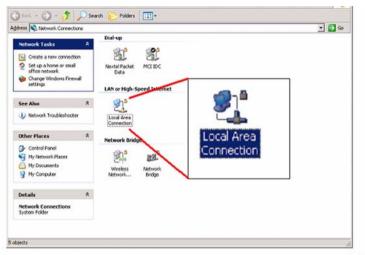
Figure 1 Settings buttons

4. Select OK.

Windows XP

Perform the steps that follow:

- On the PWS, right-click on the My Network Places desktop icon or select Start / My Network Places. Select Properties from the menu. The Network and Dial-up Connections window will open.
- Check if the firewall is enabled or disabled. If the Local Area Connection icon has a padlock symbol, the firewall is enabled, Figure 2. If the firewall is enabled, continue with this procedure.



W-1-0881-A

Figure 2 Padlock symbol

Right-click on Local Area Connection icon, then select Properties. The Local Area Connection Properties window will open, Figure 3.



Figure 3 Properties window

Select the Advanced tab, then the Settings button, Figure 4. If available, uncheck Protect my computer and network by limiting or preventing access to the computer from the Internet. Select OK. The Windows Firewall window will open.



Figure 4 Settings button

W-1-0883-A

W-1-0882-A

5. Select the Off (not recommended) radio button to disable the windows firewall, Figure 5.

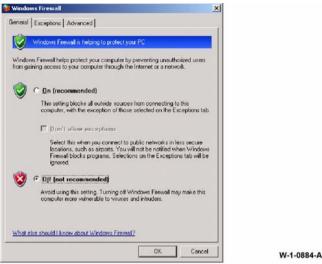


Figure 5 Settings button

- 6. Close all open windows.
- 7. Disable any other Firewall software or utilities that may be running.

GP 37 Left Door Assembly Service position

Purpose

To position the left door assembly into the service safety position.

Procedure



Do not lower the left door assembly further than the authorized service position, GP 37. Lowering of the left door assembly beyond the service position will cause the left door cover to collide with the IOT to HCF inboard fixing bolt.

- Ensure you have a damper spring tensioner tool kit before commencing this general procedure, PL 31.14 Item 7.
- Ensure the machine is positioned in accordance with the minimum safe working space requirement, GP 21.
- 3. Ensure both the front castors are locked, PL 70.26 Item 3.
- Remove the lower rear cover, PL 70.26 Item 1. This cover is utilized to support the left door assembly in the service position.
- 5. Remove the print cartridge, PL 90.17 Item 9, then place in a lightproof bag.

6. Identify the front and rear spring tensioner tools, Figure 1.

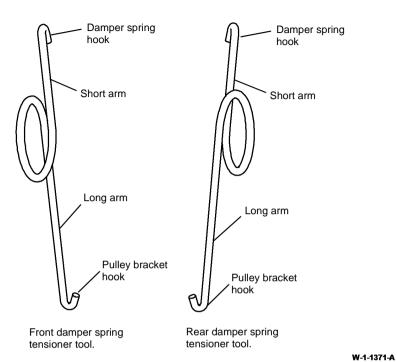
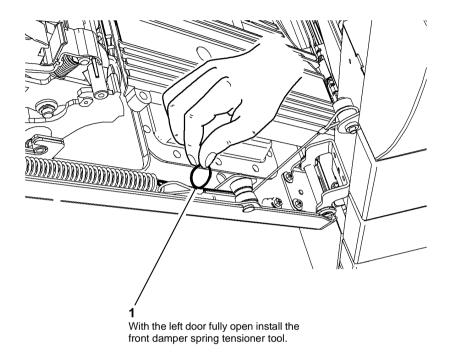


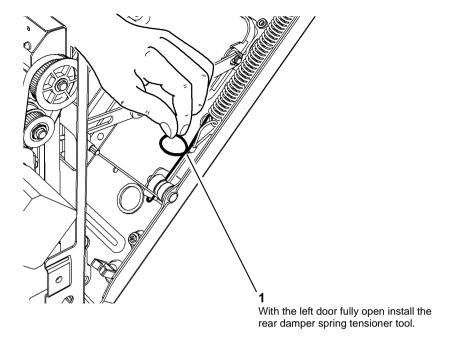
Figure 1 Tool identification

Install the front and rear damper spring tensioner tools. Hook the short arm of each tool to
the bottom loop of the respective damper spring, then hook the long arm to the inner side
of the pulley bracket, Figure 2 and Figure 3.



W-1-1335-A

Figure 2 Front damper spring tensioner tool



W-1-1336-A

Figure 3 Rear damper spring tensioner tool

8. Release the front and rear damper cables, Figure 4.

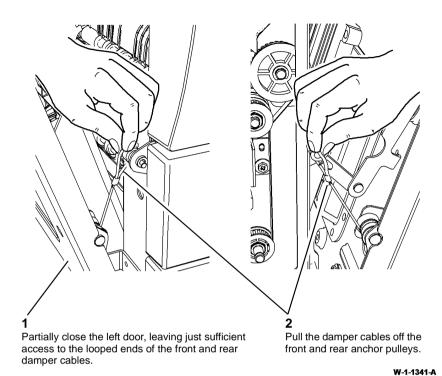
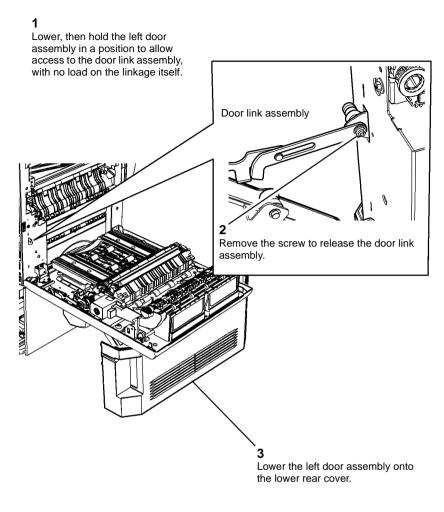


Figure 4 Release the damper cables

9. Position the left door assembly into the service position, Figure 5.



W-1-1343-A

Figure 5 Left door service position

Replacement

- 1. The replacement is the reverse of the removal procedure.
- 2. Ensure the front and rear damper cables are located in the grooves of their pulleys, Figure 6

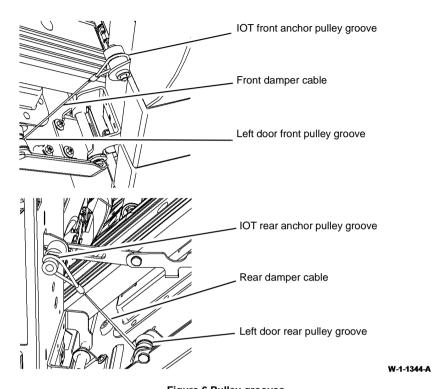


Figure 6 Pulley grooves

GP 38 How to Check an Adaptive Sensor

Purpose

Use this procedure to check the operation of adaptive reflective sensors.

To check the operation of all other sensors, refer to GP 11 How to Check a Sensor.

NOTE: The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the circuit diagram in the RAP for the correct information.

Initial Actions



Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 14. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Perform the steps that follow:

- Ensure that the sensor is installed correctly.
- Clean the sensor and the area around the sensor.
- Check that the mirror surface is clean. Also ensure that there is not an obstruction between the sensor and the mirror.
- 4. Check that the paper path is clear.

Sensor Action

Refer to Figure 1. When light from the LED is reflected back to the photo-sensitive transistor, the sensing line, PJA, pin 2, is high. When light from the LED is blocked by a sheet of paper, no light is reflected back to the photo-sensitive transistor, and the sensing line is low.

During initialisation the sensor drive voltage, PJC, pin 3, is adjusted to provide a sensing line output in the range of +1.3V to +1.6V when no paper is detected.

Quick Sensor Check

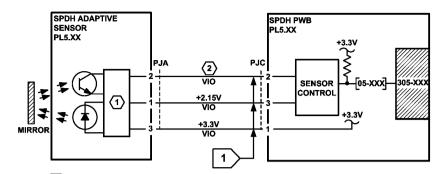
Enter the component control code for the sensor, refer to dC330. Activate the sensor. If the display changes, the sensor operates correctly. If the display does not change, perform the procedure.

Procedure

- Go to Flag 1. Check for:
 - +3.3V at PJC, pin 1.
 - +2.15V at PJC, pin 3.
 - +1.3V to +1.6V at PJC, pin 2 when no paper is present.
- Disconnect PJA and PJC. Check the harness for continuity between PJA and PJC.

References:

- 301D +3.3V Distribution RAP.
- REP 1.2 Wiring Harness Repairs.



- 1 SENSOR ADAPTIVE VOLTAGE CIRCUIT
- PAPER DETECTED (L) +1.3V TO +1.6V

TW-1-0291-A

Figure 1 Circuit diagram

GP 39 Consumables Compatibility Information

Purpose

To identify the different types of consumables and their compatibility.

Consumable Types

Refer to Table 1 for the different consumable types.

Table 1 Consumable types

| Consumable | Configuration | Service Plan | Region |
|-----------------|---------------|--------------|-------------|
| Print cartridge | 1 | Sold | Worldwide |
| Print cartridge | 2 | Metered | Worldwide |
| Toner cartridge | 1 | Sold | USSG and XE |

Table 1 Consumable types

| Consumable | Configuration | Service Plan | Region |
|-----------------|---------------|--------------|-----------|
| Toner cartridge | 2 | Metered | Worldwide |
| Toner cartridge | 3 | Sold | DMO |
| Fuser (110V) | 1 | Sold | Worldwide |
| Fuser (220V) | 2 | Sold | Worldwide |

NOTE: Currently, the configuration of all new print cartridges is sold.

Consumable Compatibility

Refer to Table 2 for the combination of consumables and machine settings that are compatible. Installing a combination of consumables not shown in Table 2 will result in a fault.

Table 2 Compatibility

| Machine Settings Pr | | Print Cartridge | | Toner Cartridge | | Fuser | |
|---------------------|--------------|-----------------|-----------------|-----------------|-------------------|---------------|-----------------------|
| Market Region | Service Plan | Configuration | Parameters | Configuration | Parameters | Configuration | Parameters |
| USSG | Sold | 1 | Sold, Worldwide | 1 | Sold, USSG and XE | 1 | 110V, Sold, Worldwide |
| XE | Sold | 1 | Sold, Worldwide | 1 | Sold, USSG and XE | 2 | 230V, Sold, Worldwide |
| DMO | Sold | 1 | Sold, Worldwide | 3 | Sold, DMO | 2 | 230V, Sold, Worldwide |
| USSG | Metered | 1 | Sold, Worldwide | 1 | Sold, USSG and XE | 1 | 110V, Sold, Worldwide |
| XE | Metered | 1 | Sold, Worldwide | 1 | Sold, USSG and XE | 2 | 230V, Sold, Worldwide |

Consumable Ordering

For consumables identification and ordering, refer to PL 26.11.

GP 40 Glossary of Terms, Acronyms and Abbreviations

Where possible unit designations as appear in ISO 1000 (International Organization for Standardization) and Xerox Standard MN2-905 have been used. All measurements appear in ISO units followed by any conversion in brackets e.g.; 22.5mm (0.885 inches)

Refer to Table 1.

Table 1 Abbreviations

| Term | Description |
|------------|---|
| AAA | Authentication, Authorisation and Accounting |
| ABS | Automatic Background Suppression. |
| AC | Alternating Current |
| ACAST | Anti Counterfeiting Activities Support/Strategy Team |
| ACL | Alternating Current Live |
| ACN | Alternating Current Neutral |
| AGC | Automatic Gain Control |
| AHA | Advanced Hardware Architecture |
| ANSAM | Answer Tone, Amplitude Modulated |
| APS | Auto Paper Selection |
| ARP | Address Resolution Protocol. Converts an IP address to a MAC address. See RARP. |
| ASIC | Application Specific Integrated Circuit |
| В | Bels (applies to sound power level units) |
| Binding | Part of the communication between modules. |
| BM | Booklet Maker |
| BootP | Boot Protocol. AN IP protocol for automatically assigning IP addresses. |
| BPS | Bits Per Second |
| BS | Behaviour Specification |
| ВТ | Busy Tone |
| BCR | Bias Charge Roll |
| BTR | Bias Transfer Roll |
| С | Celsius |
| CAT | Customer Admin Tool |
| CBC | Customer Business Center |
| CCD | Charged Coupled Device |
| CCM | Copy Controller Module |
| CCS | Copy Controller Service |
| CentreWare | CentreWare internet services is the embedded HTTP server application that is available on network enabled machines. It enables access to printing, faxing and scanning over the internet. |
| CIPS | Common Image Path Software |
| CIS | Contact Image Sensor |
| CL | Copy Lighter. A copy density setting |
| CQ | Copy Quality |
| | |

Table 1 Abbreviations

| Term | Description |
|--------------|--|
| CRC | Cyclic Redundancy Check |
| CRU | Customer Replaceable Unit |
| CRUM | Customer Replaceable Unit Monitor |
| CSE | Customer Service Engineer |
| CVT | Constant Velocity Transport |
| CWIS | CentreWare Internet Services (also known as Web UI) |
| dB | Decibel (applies to sound pressure level units) |
| dC | Diagnostic code |
| DC | Device Controller, generic term for any module that acts as a image han dling device e.g., SIP. Digital Copier |
| DC | Direct Current |
| DCN | Disconnect |
| DCS | Digital Command Signal |
| DDNS | Dynamic Domain Name System |
| DH | Document Handler |
| DHCP | Dynamic Host Config Protocol (similar to BootP) |
| DIMM | Dual In-line Memory Module |
| DIP | Dual In-line Package (switch) |
| DIS | Digital Identification Signal |
| DLM | Dynamically Loadable Module |
| DM | Document Manager |
| DMA | Direct Memory Access |
| DMO | Developing Markets Operations |
| DMO-E | Developing Markets Operations East |
| DMO-W | Developing Markets Operations West |
| DPI | Dots per inch |
| DRAM | Dynamic Random Access Memory |
| DST | Daylight Saving Time |
| DT | Dial Tone |
| DTMF | Dual Tone Multiple Frequency |
| DTS | Detack Saw |
| Dust Off | Routine to return machine to pre-install state |
| DVMA | Direct Virtual Memory Access |
| EH&S | Environmental Health and Safety |
| EJS | Easy Java Simulation |
| ELT | Extract, Load, Transform |
| Embedded Fax | A fax system included in a system device |
| EMC | Electromagnetic Compatibility |
| EME | Electromagnetic Emission |
| ENS | Event Notification Service. Used by a software module to alert another module of an event. |

Table 1 Abbreviations

| Term | Description |
|----------|---|
| EOM | End Of Message |
| EOP | End Of Procedure |
| EOR | End Of Retransmission |
| EPA | Environmental Protection Agency |
| EPC | Electronic Page Collation (memory dedicated to temporary retention of |
| | images captured from the scanner and network controller) |
| EPROM | Erasable / Programmable Read Only Memory |
| ERR | End Retransmission Response |
| ERU | Engineer Replaceable Unit |
| ESD | Electrostatic Discharge |
| ESS | Electronic Sub-System (equivalent to NC) |
| EU | European Union |
| EUR | Europe |
| FAR | Fully Active Retard feeder |
| Fax | Facsimile |
| FCOT | First Copy Out Time |
| FDI | Foreign Device Interface |
| FIFO | First In First Out |
| Firmware | Software in a ROM |
| FLASH | On board erasable and re-programmable non volatile memory |
| FOIP | Fax Over Internet Protocol |
| FPGA | Field Programmable Gate Array |
| FPOT | First Print Out Time |
| FRU | Field Replaceable Unit |
| FRU | Fuser Replacement Unit |
| FTP | File Transfer Protocol |
| FX | Fuji Xerox |
| G3 | Group 3 |
| GMT | Greenwich Mean Time |
| GND | Ground |
| GSM | Grams per square metre |
| GUI | Graphical User Interface |
| HCF | High Capacity Feeder |
| HDD | Hard Disk Drive |
| HFSI | High Frequency Service Intervals |
| HTTP | Hyper Text Transfer Protocol |
| HVPS | High Voltage Power Supply |
| Hz | Hertz |
| I/O | Input/Output |

Table 1 Abbreviations

| Term | Description |
|----------|--|
| I2C-bus | Inter Integrated Circuit bus. This provides a simple bidirectional 2-wire bus for efficient inter-IC control. All I2C-bus compatible devices incorporate an interface which allows them to communicate directly with each other via the I2C-bus. |
| ID | Identification |
| IDG | Inter document gap |
| IFax | Internet Fax |
| IIT | Image Input Terminal |
| Intlk | Interlock |
| ioctl | input/output control |
| IOT | Image Output Terminal |
| IP | Internet Protocol |
| IPA | Image Processing Accelerator. Used by the machine scanning services to convert scanned images to a standard format e.g. for scan to file / scan to E-mail for network transmission. |
| IPS | Image Processing Service |
| IPSec | Internet Protocol Security |
| IPX | Internetwork Protocol eXchange |
| IQ | Image Quality |
| IQS | Image Quality Specification |
| IR | Intelligent Ready |
| ISDN | Integrated Services Digital Network / International Standard Data Network |
| ISO | International Standards Organization |
| ITP | Internal Test Pattern |
| JBA | Job Based Accounting (Network Accounting) |
| JIS | Japanese Industrial Standards |
| kg | kilogram |
| kHz | kilohertz |
| Kill All | Routine to return all NVM, including protected NVM, to a virgin state. Factory use only |
| КО | Key Operator |
| LAN | Local Area Network |
| LCD | Liquid Crystal Display |
| LCSS | Low Capacity Stapler Stacker |
| LDAP | Lightweight Directory Access Protocol (allows sharing of corporate phone book information) |
| LE | Lead edge |
| LED | Light Emitting Diode |
| LEF | Long Edge Feed |
| LOA | Load Object Attributes |
| LPD | Line Printer Daemon |

Table 1 Abbreviations

| Term | Description |
|--------------|--|
| LPH | LED Print Head. An LED array in close proximity to and the same width as the photoreceptor. Individual LEDs are switched on/off to develop the image on the xerographic drum. |
| lpi | Lines per inch |
| LVF BM | Low Volume Finisher Booklet maker |
| LVDS | Low Voltage Differential Signal |
| LVPS | Low Voltage Power Supply |
| LUI | Local user Interface |
| m | metre |
| MAC Address | Media Access Code. This is the basic, unique identifier of a networked device. An incoming message is analysed and an address in another form, such as an IP address, is resolved by a lookup table to a MAC address. The message is then directed to, and accepted by the equipment thus identified. It is the burnt-in, hardware address of a NIC. |
| Mark Service | Mark Service is the software module that tells the hardware to put toner on paper. |
| MB | Megabyte (one MB = 1,048,576 bytes = 1024 kilobytes). Mail Box |
| Mb | Mega bit (one million bits) |
| MCF | Message Confirmation |
| MF | Multifunction |
| mm | millimetre |
| Modem | MOdulator/DEModulator. Hardware unit that converts the 'one' and 'zero' binary values from the computer to 2 frequencies for transmission over the public telephone network (modulation). It also converts the 2 frequencies received from the telephone network to the binary values for the computer (demodulation). |
| Moire | Image quality defect caused by interference between patterned originals and the digital imaging process. Moire patterns are repetitive and visible as bands, plaids or other texture. |
| MSG | Management Steering Group |
| ms | millisecond |
| N | Newton |
| NA | North America |
| NC | Network Controller (equivalent to ESS) |
| NC | Normal Contrast. Copy contrast setting |
| NCR | No Copying Required |
| NetBIOS | Network Basic Input / Output System. Software developed by IBM that provides the interface between the PC operating system, the I/O bus, and the network. Since its design, NetBIOS has become a de facto standard. |
| Nm | Newton metre |
| NOHAD | Noise, Ozone, Heat, Airflow and Dust |
| NTP | Network Time Protocol |

Table 1 Abbreviations

| OA Op ODIO Or OEM Or OpCo Op OS Op P/R Ph PABX Pri PC Pe PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pri | on-Volatile Memory pen Architecture n Demand Image Overwrite riginal Equipment Manufacturer perating Company perating System hotoreceptor rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number acket InterNet Groper. Tool to test connections between nodes by send- |
|---|--|
| OA Op ODIO Or OEM Or OpCo Op OS Op P/R Ph PABX Pri PC Pe PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pri | pen Architecture In Demand Image Overwrite Iriginal Equipment Manufacturer Iperating Company Iperating System Inhotoreceptor Irivate Automatic Branch Exchange Iersonal Computer Iersonal Computer Fax Ieripheral Component Interface Irinter Control Language Idobe Acrobat Portable Document Format Interface In |
| ODIO Or OEM Or OPCO OP OS OP P/R PABX Pri PC PE PC Fax Pe PCI Pe PCL Pri PDF Ad PIN Pri | rin Demand Image Overwrite riginal Equipment Manufacturer perating Company perating System hotoreceptor rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| OEM Or OpCo Op OS Op P/R Ph PABX Pri PC Pe PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pro | riginal Equipment Manufacturer perating Company perating System hotoreceptor rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| OpCo Op OS Op P/R Ph PABX Pri PC Pe PC Fax Pe PCI Pe PCI Pri PCL Pri PDF Ad PFM Pa PIN Pri | perating Company perating System hotoreceptor rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| OS OF P/R Ph PABX Pri PC PC PC PC PC PC PC Pri PCL Pri PDF Add PFM PA PIN Pri | perating System hotoreceptor rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
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| PABX Pri PC Pe PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pri | rivate Automatic Branch Exchange ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PC Pe PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pri | ersonal Computer ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PC Fax Pe PCI Pe PCL Pri PDF Ad PFM Pa PIN Pri | ersonal Computer Fax eripheral Component Interface rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PCL Pri PDF Ad PFM Pa PIN Pro | rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PCL Pri PDF Ad PFM Pa PIN Pro | rinter Control Language dobe Acrobat Portable Document Format aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PFM Pa | aper Feed Module rocedural Interrupt Negative ersonal Identification Number |
| PIN Pro | rocedural Interrupt Negative ersonal Identification Number |
| 1 | ersonal Identification Number |
| | |
| PIN Pe | acket InterNet Graner Teel to test connections between nodes by send |
| ping Pa | acket interivet Groper. Tool to test connections between houes by send-p |
| i. – | g and returning test data. |
| PME Po | ower Management Event |
| POPO Po | ower Off Power On |
| POO or P of O Pri | rinciples of Operation |
| POST Po | ower On Self Test |
| POTS Pla | lain Old Telephone System |
| PPM Pri | rints per minute / Parts Per Million |
| PR Ph | hoto-Receptor |
| Process Death A | process has stopped working. |
| PS Po | ost Script |
| | ower Supply |
| PSTN Pri | rivate Switched Telephone Network |
| PSW Po | ortable Service Workstation |
| | rocess Thread. A very low level operating system concept for code exe- ution. |
| PWB Pri | rinted Wiring Board |
| PWBA Pri | rinted Wiring Board Assembly |
| PWM Pu | ulse-Width Modulation |
| PWS Po | ortable Work Station |
| RAM Ra | andom Access Memory |
| to | everse Address Resolution. Reverse of ARP. Converts a MAC address an IP address. The document centre resolves its address using RARP. ee also MAC, NIC and ARP. |
| RDT Re | emote Data Transfer |

Table 1 Abbreviations

| Term | Description |
|-----------------------------------|--|
| Reg | Registration |
| Registration Service | Monitors when RPC services go on and offline. |
| RF | Radio Frequency |
| RFID | Radio Frequency Identification |
| RPC | Remote Procedure Call. How the device communicates internally between software modules. |
| RH | Relative humidity |
| RMS | Root Mean Square (AC effective voltage) |
| RNR | Receive Not Ready |
| RoHS | Restriction of Hazardous Substances |
| ROM | Read Only Memory |
| RR | Receive Ready |
| RS-232, RS-423, RS-422, RS-485 | Series of standards for serial communication of data by wire. RS-232 operates at 20kbits/s, RS-423 operates at 100kbits/s, RS-422 and RS-485 operate at 10Mbits/s. See FireWire and USB. |
| RTC | Real Time Clock |
| Rx | Receive |
| S2F | Scan-to-File |
| SA | Systems Administration |
| SAKO | Systems Administration Key Operator |
| SAR | Semi-Active Retard feeder |
| SBC | Single board controller. Copy, print and UI controllers all on one PWB within the image processing module. |
| SCD | Software Compatibility Database |
| SD | Secure Digital, memory card format |
| Server Fax | A fax system that uses a remote Fax server. Faxes transmit as a Scan to File job sent to the server. Fax receive as print jobs submitted to the Connection Device. |
| SEF | Short Edge Feed |
| Semaphore | A variable or abstract data type. |
| SESS | Strategic Electronic Sub-System |
| SH | Staple Head |
| SIM | Subscriber Identity Module (also known as a SOK-Software Option Key) |
| SIM | Scanner Input Module |
| SIP | Scanning and Image Processing |
| SIR | Standard Image Reference |
| SLP | Service Location Protocol (finds servers) |
| SM | Scheduled Maintenance |
| SMART | Systematic Material Acquisition Release Technique |
| SMB | Server Message Block. Microsoft Server / Client Communications protocol |

Table 1 Abbreviations

| Term | Description |
|------------|--|
| SMP | Service Maintenance Pack (contains a software package) |
| SNMP | Simple Network Management Protocol |
| Snr | Sensor |
| SOK | Software Option Key (also known as a SOIM-Subscriber Identity Module) |
| SPAR | Software Problem Action Request |
| SPDH | Single Pass Document Handler |
| spi | Spots per inch |
| SPI | Service Provider Interface. Steps to process a job. |
| SR | Service Representative |
| SRS | Service Registry Service |
| SS or S/S | Sub System |
| SSDP | Simple Service Discovery Protocol |
| SSID | Service Set Identifier (wireless network name) |
| SU | Staple Unit |
| SW | Switch |
| SW or S/W | Software |
| sync | synchronize |
| TAR | Take Away Roll |
| TAR or tar | An archive file format, derived from Tape ARchive |
| TBC | To Be Confirmed |
| TBD | To Be Defined |
| TC | Toner Concentration |
| TCF | Training Check Field |
| TCO | Thermal Cutout |
| TCP/IP | Transmission Control Protocol/Internet Protocol |
| TE | Trail Edge |
| Template | A collection of Scan to File attributes that can be conveniently re-used. |
| TIFF | Tagged Image File Format |
| TP | Test Point |
| TRC | Toner Reproduction Curve |
| TTY | Teletype Terminal |
| Tx | Transmit |
| UART | Universal Asynchronous Receiver Transmitter |
| U-boot | Universal Boot Loader |
| UI | User Interface (display screen) |
| UK | United Kingdom |
| UM | Unscheduled Maintenance |
| USB | Universal Serial Bus. |
| | High speed successor to parallel port for local device communications. Operates at 12Mbits/s. See FireWire and RS-232. |
| USCO | United States Customer Operations |

Table 1 Abbreviations

| Term | Description |
|--------------------|---|
| USSG | United States Solutions Group |
| V.17 / V.29 / V.34 | Modem standards |
| VOIP | Voice Over Internet Protocol |
| WC | WorkCentre |
| WEB UI | CentreWare Internet Services |
| XCL | Xerox Canada Limited |
| XE | Xerox Europe |
| XEIP | Xerox Extensible Interface Platform |
| XLA | Xerox Latin America |
| XML | eXtensible Markup Language |
| XPS | XML Paper Specification (printing format) |
| XRU | Xerographic Replacement Unit |
| XSA | Xerox Standard Accounting |

GP 41 Reporting Usage Counter Resets

Purpose

To describe how to report any resets to the usage counters (billing meters).

USSG Procedure

The CSE is required to call in usage counter reads to one of the Customer Business Centers that follow when a machine's usage counters have been reset:

- Chicago CBC: 1-888-771-5225 (7am 7pm Central Time). Choose option 4 (All other administrative Inquiries).
- St. Petersburg CBC: 1-888-435-6333 (8am 8pm Eastern Standard Time). Choose option
 4 (If you have questions regarding your invoice or account).
- Dallas CBC: 1-888-339-7887 (7am 6pm Central Time). Choose option 4 (If you have questions regarding your invoice or account).

The Customer Business Centers will require the information that follows:

- CSE / analyst / service agent name and employee number
- 9 digit equipment serial number.
- Old usage counter reads and date.
- New usage counter reads and date.

All Other Countries Procedure

In all other countries the CSE should follow the local procedure to report usage counter resets.

GP 42 How to Disable the Toner Cartridge CRUM RFID Reader

Purpose

To disable the RFID functionality of the toner cartridge CRUM, then remove the toner cartridge PWB and associated wiring. This is a requirement in high security environments where RFID readers are not permitted.

Procedure

- Contact your regions Hardware Level 2 Technical Support Center to obtain a Feature Installation Key.
- On the machine user interface, select Tools / Device Settings / General / Feature Installation.
- Enter the Feature Installation Key.
- 4. Switch off the machine, GP 14.
- 5. Remove the relevant component:
 - Horizontal transport assembly, REP 10.6.
 - Centre output tray, REP 28.1.
- 6. Un-clip the toner cartridge PWB cover, PL 90.17 Item 11.
- Disconnect the harness from the toner cartridge PWB, PL 90.17 Item 12. Remove the toner cartridge PWB.
- Disconnect PJ782 from the IOT PWB.

NOTE: The toner cartridge PWB harness should remain in the machine for possible future use.

- Re-install the toner cartridge PWB cover.
- 10. Re-install either the horizontal transport assembly or the centre output tray.
- 11. Locate the processor module Mod/Tag plate. Strike off TAG 013.
- 12. Switch on the machine, GP 14.

dC104 Usage Counters

Purpose

To display the various usage counters.

Procedure

- 1. Enter service mode, GP 1.
- 2. Select the Service Info tab.
- 3. Select dC104 Usage Counters.
- 4. Select the relevant counters from the pull down menu.
- Select Close to exit the routine.
- 6. Select Call Closeout.
- 7. Select Exit and Reboot.

dC108 Software Version

Purpose

To identify the version of the installed software on all major modules.

Procedure

- 1. Enter service mode, GP 1.
- Select the Service Info tab.
- 3. Select dC108 Software Versions.

The dC108 Software Versions screen will display the software and version numbers installed on the machine.

- 4. Select Close to exit the routine.
- 5. Select Call Closeout.
- 6. Select Exit and Reboot.

dC120 Fault Counters

Purpose

To view the faults raised by the machine. dC120 Fault Counters records the number of occurrences of a fault, allows the counters to be sorted by occurrences and allows a specific fault to be found by chain.

Procedure

- 1. Enter service mode, GP 1.
- 2. Select the Service Info tab.
- Select dC120 Fault Counters.

NOTE: There will be a delay while the machine retrieves the fault counter data.

- 4. A list of faults that have occurred on the machine is displayed.
 - The list can be sorted by number of occurrences and to include zero occurrences.
 Selecting these options will resort the list upon selection.

NOTE: When selecting Include Zero Occurrences, there may be a delay as the list is reconfigured.

- The list can be sorted by chain.
 - Select the chain field.
 - b. Enter a 3 digit chain number using the numeric keypad.
 - c. Select Find.
- Select Close to exit the routine.
- 6. Select Call Closeout.
- Select Exit and Reboot.

dC122 Fault History

Purpose

To view shutdown faults in chronological order and in more detail than is shown in dC120 Fault Counters.

Procedure

- Enter service mode, GP 1.
- 2. Select the Service Info tab.
- 3. Select dC122 Fault History.
- The dC122 Fault History screen is displayed with the last 40 faults shown in chronological order. The most recent fault is at the top of the list.
- To observe the details of the fault, select the fault and select Details on the pop-up window. Select Close to return to the fault table.
- 6. Select Close to exit the routine.
- 7. Select Call Closeout.
- 8. Select Exit and Reboot.

dC131 NVM Read/Write

Purpose

To review and modify values within the machine configuration and control parameters stored in NVM

NOTE: This does not include customer administration or accounting data, these are accessible from the billing and auditron facilities. Refer to the User Guide.

Description

Each NVM item is identified using an NVM ID and NVM index numbers in the form XXX-XXX, where XXX- is the ID prefix, and -XXX is the NVM ID. Index numbers range from 0 to 999. For example 610-001. Refer to GP 2 Fault Codes and History Files.

Procedure

- Save the NVM to disk. Refer to NVM Save and Restore. dC361.
- 2. Enter service mode. GP 1.
- 3. Select the Adjustments tab.
- Select dC131 NVM Read/Write.
- To read NVM:
 - 1. Enter the required 3 digit NVM ID in the first field.
 - 2. Enter the NVM Index in the second field.
 - Select Read.
 - 4. Use the Up/Down arrows to move between memory locations.
- To write NVM:
 - 1. Enter the required 3 digit NVM ID in the first field.
 - Enter the NVM Index in the second field.
 - 3. Enter a new value in the field beneath the heading 'Value of xxxx' where xxxx is the description of the NVM location.

NOTE: Select +/- to switch between positive and negative values.

- 4. Select write.
- Select Close to exit the routine.
- Select Call Closeout.
- Select Exit and Reboot.

Refer to the tables that follow for NVM locations and parameters:

NVM Tables for the Finisher, IIT, CCS and IOT, refer to NVM Read/Write Tables.

NOTE: The Edoc CD must be in the CD drive to use the link below.

For the fax NVM tables, Fax NVM Document.

NOTE: If the NVM default characters exceed 10 characters, only the first 8 characters are displayed in the list. The full string is displayed in the Read/Write window.

NOTE: Selecting Reset will cause the selected NVM location to be reset to its default value. Selecting Cancel closes the window and cancels any changes made in the now closed window

NOTE: NVM that contains customer administrative or accounting data can not be read or modified.

NOTE: The Read Only (protected) NVM can only be changed using a password obtained from Xerox. Protected NVM cannot be reset from dC132 NVM initialisation.

NVM Read/Write Tables

- 1. Refer to the tables that follow for NVM parameters:
 - IOT NVM ID 500-001 to 500-903, Table 1.
 - IOT NVM ID 501-160 to 501-365. Table 2.
 - IOT NVM ID 502-292 to 502-399, Table 3.
 - IOT NVM ID 503-001 to 503-124, Table 4.
 - IOT NVM ID 504-001 to 504-125, Table 5.
 - IOT NVM ID 505-001 to 505-031, Table 6.
 - OT NVM ID 506-001 to 506-023, Table 7.
 - IOT NVM ID 507-001 to 507-004, Table 8.
 - IOT NVM ID 510-001 to 512-002, Table 9.
 - IOT NVM ID 520-320 to 520-339, Table 10.
 - CCS NVM ID 600-001 to 600-151, Table 11.
 CCS NVM ID 602-001 to 603-039, Table 12.
 - CCS NVM ID 604-001 to 604-220, Table 13.
 - CCS NVM ID 604-241 to 604-999, Table 14.
 - CCS NVM ID 605-001 to 605-036, Table 15.
 - CCS NVM ID 606-001 to 606-269, Table 16.
 - CCS NVM ID 606-272 to 606-886, Table 17.
 - CCS NVM ID 608-411 to 608-996, Table 18.
 - CCS NVM ID 609-001 to 609-457, Table 19.
 - CCS NVM ID 610-001 to 611-001, Table 20.
 - CCS NVM ID 612-001 to 612-005, Table 21.
 - CCS NVM ID 616-001 to 616-340, Table 22.
 - CCS NVM ID 617-002 to 617-003, Table 23.
 - CCS NVM ID 620-001 to 620-033, Table 24.
 - CCS NVM ID 620-101 to 620-199, Table 25.
 - CCS NVM ID 620-200 to 620-299, Table 26.
 - CCS NVM ID 620-300 to 620-399, Table 27.
 - CCS NVM ID 620-500 to 620-587, Table 29.

CCS NVM ID 620-400 to 620-499, Table 28.

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- CCS NVM ID 648-001 to 648-022, Table 31.
- CCS NVM ID 649-001 to 649-014, Table 32.
- CCS NVM ID 652-001 to 652-079, Table 33.
- CCS NVM ID 656-001 to 656-005, Table 34.
- CCS NVM ID 658-001 to 658-159, Table 35.
- CCS NVM ID 665-001 to 665-003, Table 36.
- CCS NVM ID 671-001 to 671-018, Table 37.
- CCS NVM ID 672-001 to 672-017, Table 38.
- CCS NVM ID 673-001 to 673-023, Table 39.
- CCS NVM ID 674-001 to 674-004, Table 40.
- Finisher NVM ID 712-100 to 712-103, Table 41.
- IIT NVM ID 801-001 to 801-214, Table 42.
- IIT NVM ID 803-001 to 803-149, Table 43.
- IIT NVM ID 805-001 to 805-032, Table 44.

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|---|---------------------------|------------------------------------|
| 500-001 | PitchTickSimpMo de1_P1 | Simplex Pitch Mode 1, paper sizes <216mm | Range = 400 to 5000ms | 45ppm = 1220 55ppm = 1090 |
| 500-002 | PitchTickSimpMo de2_P1 | Simplex Pitch Mode 2, paper sizes >216mm <365mm | Range = 400 to 5000ms | 45ppm = 1670 55ppm = 1670 |
| 500-003 | PitchTickSimpMo de3_P1 | Simplex Pitch Mode 3, paper sizes >365mm | Range = 400 to 5000ms | 45ppm = 1930 55ppm = 1930 |
| 500-004 | PitchTickDupMod e1_P1 | Duplex Pitch Mode 1, paper sizes <216mm | Range = 400 to 5000ms | 45ppm = 1090 55ppm = 1090 |
| 500-005 | PitchTickDupMod e2_P1 | Duplex Pitch Mode 2, paper sizes >216mm <365mm | Range = 400 to 5000ms | 45ppm = 1670 55ppm = 1670 |
| 500-006 | PitchTickDupMod e3_P1 | Duplex Pitch Mode 3, paper sizes >365mm | Range = 400 to 10000ms | 45ppm = 1930 55ppm = 1930 |
| 500-007 | PitchMaxPaperSi zemmS1 | Max paper Size Pitch Mode1 Simplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-008 | PitchMaxPaperSi zemmS2 | Max Paper Size Pitch Mode2 Simplex | Range = 100 to 700mm | 45ppm = 366 55ppm = 366 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|--|------------------------|----------------------------|
| 500-009 | PitchMaxPaperSi zemmS3 | Max paper Size Pitch Mode 3 Simplex | Range = 100 to 700mm | 45ppm = 433 55ppm = 433 |
| 500-010 | PitchMaxPaperSi zemmD1 | Max paper Size Pitch Mode1 Duplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-011 | PitchMaxPaperSi zemmD2 | Max Paper Size Pitch Mode2 Duplex | Range = 100 to 700mm | 45ppm = 366 55ppm = 366 |
| 500-012 | PitchMaxPaperSi zemmD3 | Max paper Size Pitch Mode 3 Duplex | Range = 100 to 700mm | 45ppm = 433 55ppm = 433 |
| 500-013 | TAR1ToRegDista nce | Distance from TAR1 to Reg For speed calculation | Range = 0 to 300mm | 45ppm = 104 55ppm = 104 |
| 500-014 | DeliverTimeSSLT oReg_P1 | Time to deliver SSL to registration for scheduling | Range = 0 to 1000ms | 45ppm = 255 55ppm = 255 |
| 500-015 | DeliverRegToTra nsferTime_P1 | Time to deliver reg to transfer, image to sheet alignment | Range = 0 to 1000ms | 45ppm = 163 55ppm = 163 |
| 500-016 | TimePageSyncTo Transfer_P1 | Time page sync to transfer, image to sheet alignment | Range = 0 to 1000ms | 45ppm = 229 55ppm = 229 |
| 500-017 | TEatRegToReg- MotorOFFSteps | Steps form TE at Reg Sensor to Registration Motor off | Range = 0 to 3000 | 45ppm = 450 55ppm = 450 |
| 500-018 | FirstpageSyncDel ayTime_P1 | Delay for first page sync to ensure sheet is not late | Range = 0 to 5000ms | 45ppm = 600 55ppm = 600 |
| 500-019 | TAR1CatchUpID GDistance | Used in algorithm for TAR motor speed IDG control | Range = 0 to 300mm | 45ppm = 25 55ppm = 25 |
| 500-020 | SimplexBuckleSte psS1 | Deskew Buckle steps at Registration Simplex Mode1 | Range = 0 to 500 | 45ppm = 90 55ppm = 90 |
| 500-021 | SimplexBuckleSte psS2 | Deskew Buckle steps at Registration Simplex Mode2 | Range = 0 to 500 | 45ppm = 90 55ppm = 90 |
| 500-022 | SimplexBuckleSte psS3 | Deskew Buckle steps at Registration Simplex Mode3 | Range = 0 to 500 | 45ppm = 90 55ppm = 90 |
| 500-023 | SimplexStageLo- cationSteps | Number of steps from TAR1 Sensor to SSL, sheet held here if early. | Range = 0 to 1000 | 45ppm = 234 55ppm = 234 |
| 500-024 | DuplexBuckleSte psD1 | Deskew Buckle steps at Registration Duplex Steps of the duplex motor Mode1 | Range = 0 to 1000 | 45ppm = 143 55ppm = 143 |
| 500-025 | DuplexBuckleSte psD2 | Deskew Buckle steps at Registration Duplex Steps of the duplex motor Mode2 | Range = 0 to 1000 | 45ppm = 143 55ppm = 143 |
| 500-026 | DuplexBuckleSte psD3 | Deskew Buckle steps at Registration Duplex Steps of the duplex motor Mode3 | Range = 0 to 1000 | 45ppm = 143 55ppm = 143 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|--|---------------------------|------------------------------------|
| 500-027 | DuplexStageDela yConstantD1_P1 | Delay to release from DSL. Duplex Mode1 | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |
| 500-028 | DuplexStageDela yConstantD2_P1 | Delay to release from DSL. Duplex Mode2 | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |
| 500-029 | DuplexStageDela yConstantD3_P1 | Delay to release from DSL. Duplex Mode3 | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |
| 500-030 | InvMotFwdToInv- MotorOffSteps | Invert Motor Steps from TE PFS to stop past invert Duplex gate. | Range = 400 to 3000 | 45ppm = 512 55ppm = 512 |
| 500-031 | SheetLateResche duleTime_P1 | If the sheet is too late at the reg sensor then the image can be rescheduled. | Range = 0 to 1000ms | 45ppm = 50 55ppm = 50 |
| 500-032 | DuplexStageLo- cationSteps | Number of steps from Duplex Sensor to DSL, sheet held here if early. | Range = 0 to 3000 | 45ppm = 392 55ppm = 392 |
| 500-033 | InvertSolONDe- layTime | Time from LE at the Post Fuser Sensor to engage the Invert Solenoid for a duplex sheet. | Range = 0 to 300ms | 45ppm = 30 55ppm = 30 |
| 500-034 | InvertSolOFFDe- layTime | Time from the TE at the Post Fuser Sensor to disen- gage the Invert Solenoid for a Duplex Sheet | Range = 0 to 300ms | 45ppm = 95 55ppm = 95 |
| 500-035 | InvertDelayToDup lexTimeD1 | Minimum delay before the inverter motor changes direction. Duplex Mode 1 | Range = 0 to 1000ms | 45ppm = 15 55ppm = 15 |
| 500-036 | RegProcessSpee d_P1 | Registration Roll Process speed | Range = 1000 to 5500mm/s | 45ppm = 2590 55ppm = 2590 |
| 500-037 | RegRollDiameter | Reg Roll Diameter (scaled) | Range = 1000 to 3000mm | 45ppm = 1300 55ppm = 1300 |
| 500-038 | RegRollRatio | Reg Drive Ratio (scaled) | Range = 0 to 20000 | 45ppm = 5000 55ppm = 5000 |
| 500-039 | RegRollBas- eSpeed | Reg Roll Base Speed | Range = 0 to 3000mm/s | 45ppm = 500 55ppm = 500 |
| 500-040 | RegRollFinal- Speed | Reg Roll final speed used for ramp table creation. | Range = 0 to 50000mm/s | 45ppm = 2700 55ppm = 2700 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|----------------------------|--------------------------------------|
| 500-041 | RegRollAccRate | Reg Roll acceleration rate | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-042 | TAR1ProcessSpe ed_P1 | TAR1/2 Roll Process Speed (scaled) | Range = 100 to 5000mm/s | 45ppm = 2590 55ppm = 2590 |
| 500-043 | TAR1RollDiamete r | TAR 1/2 Roll Diameter (scaled) | Range = 1000 to 3000mm | 45ppm = 1510 55ppm = 1510 |
| 500-044 | TAR1Ratio | TAR 1/2 Drive Ratio (scaled) | Range = 0 to 20000 | 45ppm = 10000 55ppm = 10000 |
| 500-045 | TAR1RollBaseSp eed | TAR 1/2 Base Speed (Scaled) | Range = 0 to 3000mm/s | 45ppm = 950 55ppm = 950 |
| 500-046 | TARRampTable- FinalSpeed | TAR1/2 final speed used for ramp table calculation (Scaled) | Range = 0 to 8000mm/s | 45ppm = 3800 55ppm = 3800 |
| 500-047 | TAR1RollAccRate | TAR 1/2 Acceleration rate. | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-048 | DuplexProcessSp eed_P1 | Duplex Roll Process Speed (scaled) | Range = 100 to 5000mm/s | 45ppm = 2600 55ppm = 2600 |
| 500-049 | DuplexRollDiam- eter | Duplex Roll Diameter (Scaled) | Range = 1000 to 3000mm | 45ppm = 1600 55ppm = 1600 |
| 500-050 | DuplexRatio | Duplex Drive Ratio (Scaled) | Range = 0 to 20000 | 45ppm = 6667 55ppm = 6667 |
| 500-051 | DuplexRollBas- eSpeed | Duplex Base Speed (Scaled) | Range = 0 to 3000mm/s | 45ppm = 730 55ppm = 730 |
| 500-052 | DuplexDeliver- MaxSpeed | Duplex final speed used for ramp table calculation (Scaled) | Range = 0 to 20000mm/s | 45ppm = 5000 55ppm = 5000 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|---|------------------------------|--------------------------------------|
| 500-053 | DuplexRollAc- cRate | Duplex Acceleration Rate | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-054 | DuplexHighSpeed D1_P1 | Duplex High Speed Duplex Mode 1(Scaled) | Range = 1000 to 10000mm/s | 45ppm = 4000 55ppm = 4000 |
| 500-055 | DuplexHighSpeed D2_P1 | Duplex High Speed Duplex Mode 2(Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-056 | DuplexHighSpeed D3_P1 | Duplex High Speed Duplex Mode 3(Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-057 | InvertProcessSpe ed_P1 | Invert Roll Process Speed (Scaled) | Range = 1000 to 5000mm/s | 45ppm = 2554 55ppm = 2554 |
| 500-058 | InvertRollDiame- ter | Invert Roll Diameter (Scaled) | Range = 1000 to 3000mm | 45ppm = 1600 55ppm = 1600 |
| 500-059 | InvertRatio | Invert Drive Ratio (Scaled) | Range = 0 to 20000 | 45ppm = 7143 55ppm = 7143 |
| 500-060 | InvertRollBas- eSpeed | Invert Base Speed | Range = 0 to 3000 | 45ppm = 1100 55ppm = 1110 |
| 500-061 | InvertDeliverMax- Speed | Invert final speed used for ramp table calculation (Scaled) | Range = 0 to 20000mm/s | 45ppm = 5000 55ppm = 5000 |
| 500-062 | InvertRollAccRate | Invert Acceleration Rate | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-063 | InvertHighSpeed1 _P1 | Invert High Speed Duplex Mode 1 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 4000 55ppm = 4000 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|------------------------------|------------------------------------|
| 500-064 | InvertHighSpeed2 _P1 | Invert High Speed Duplex Mode 2 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-065 | InvertHighSpeed3 _P1 | Invert High Speed Duplex Mode 3 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-066 | ArmRegistrationS ensorLE_P1 | Arm Reg Sensor for LE Delay from SSL release to arm reg sensor for LE event | Range = 0 to 500ms | 45ppm = 50 55ppm = 50 |
| 500-067 | ArmRegistrationS ensorTE_P1 | Arm Reg Sensor for TE, Delay from TE at TAR1 Sensor. Steps of the Reg Motor | Range = 0 to 5000 | 45ppm = 350 55ppm = 350 |
| 500-068 | ArmPostFuserSe nsorLE_P1 | Arm PFS for LE Delay from Sheet release from Reg Rolls to arm the PFS for the LE event | Range = 0 to 3000ms | 45ppm = 662 55ppm = 662 |
| 500-069 | ArmPostFuserSe nsorTE_P1 | Delay from LE event at PFS to arm the PFS for the TE Event. Timer = paper- Sizems - NVM | Range = 0 to 500ms | 45ppm = 20 55ppm = 20 |
| 500-070 | ArmDuplexSenso rLE_P1 | Arm duplex sensor for LE Delay from Sheet reverse event to arm duplex sensor for the LE event. Steps of the Duplex Motor | Range = 0 to 5000 | 45ppm = 1655 55ppm = 1655 |
| 500-071 | ArmDuplexSenso rLE_D2_P1 | Arm duplex sensor for LE Delay from Sheet reverse event to arm duplex sensor for the LE event. Mode2 Duplex | Range = 0 to 3000ms | 45ppm = 1140 55ppm = 1140 |
| 500-072 | ArmDuplexSenso rLE_D3_P1 | Arm duplex sensor for LE Delay from Sheet reverse event to arm duplex sensor for the LE event. Mode3 Duplex | Range = 0 to 3000ms | 45ppm = 1140 55ppm = 1140 |
| 500-073 | ArmDuplexSenso rTE_P1 | Arm Duplex Sensor for TE Delay from duplex sheet release from Reg to arm the duplex sensor for the TE event. Number of steps. | Range = 0 to 3000 | 45ppm = 666 55ppm = 666 |
| 500-074 | ArmTAR1Sensor LEFromT1Time | Arm Tar 1 Sensor for LE Delay when Feeding from Tray 1. Time from Feed start. | Range = 0 to 500ms | 45ppm = 20 55ppm = 20 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|---|--------------------------|------------------------------------|
| 500-075 | ArmTAR1Sensor LEFromT2Steps | Arm TAR 1 Sensor for LE when the sheet is travelling from Tray2. Steps of the TAR motor timed from TAR2 | Range = 0 to 3000ms | 45ppm = 280 55ppm = 280 |
| 500-076 | ArmTAR1Sensor TEFromRegSteps | Arm TAR 1 Sensor for TE timed from Release from reg rolls. Number of steps. | Range = 0 to 3000 | 45ppm = 463 55ppm = 463 |
| 500-077 | ArmTAR2Sensor LEFromT2Time | Arm Tar 2 Sensor for LE when Feeding from Tray 2. Time from Feed start. | Range = 0 to 500ms | 45ppm = 20 55ppm = 20 |
| 500-078 | ArmTAR2Sensor LEFromHCFTime | Arm TAR 2 Sensor for LE when the sheet is travelling from the HCF. Arm delay from the HCF sheet released from the HCF wait point. | Range = 0 to 500ms | 45ppm = 135 55ppm = 135 |
| 500-079 | ArmTAR2Sensor TEFromLET1Step s | Arm TAR 2 Sensor for TE steps of TAR motor from LE TAR 1 event. Paper size steps - NVM Steps | Range = 0 to 3000 | 45ppm = 407 55ppm = 407 |
| 500-080 | RegMotor- StepsRev | Number of steps per rev of the Reg motor nominally 200. If doubled the half stepping is enabled | Range = 0 to 1000 | 45ppm = 400 55ppm = 400 |
| 500-081 | TAR1MotorSteps Rev | Number of steps per rev of the TAR motor nominally 200. If doubled the half stepping is enabled | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |
| 500-082 | TAR1MSISpeed_ P1 | MSI speed Driven by the T1 and T2 TAR motor, the speed shown is the speed of the TAR roll see Eng Plan for actual MSI Speed (scaled) | Range = 100 to 5000mm/s | 45ppm = 2600 55ppm = 2600 |
| 500-083 | Feed1_2MotorSte psRev | Number of steps per rev of the feed motor nominally 48. If doubled the half step- ping is enabled | Range = 0 to 1000 | 45ppm = 48 55ppm = 48 |
| 500-084 | Feed1_2Process Speed_P1 | Feed 1/2 Roll Process Speed (Scaled) | Range = 1000 to 5500mm/s | 45ppm = 3730 55ppm = 3730 |
| 500-085 | Feed1_2RollDiam eter | Feed 1/2 Roll Diameter (scaled) | Range = 0 to 20000mm | 45ppm = 1500 55ppm = 1500 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|---|----------------------------|--------------------------------------|
| 500-086 | Feed1_2Ratio | Feed 1/2 Drive Ratio (scaled) | Range = 0 to 100000 | 45ppm = 5625 55ppm = 5625 |
| 500-087 | Speed | Feed 1/2 Base Speed | Range = 0 to 5000mm/s | 45ppm = 500 55ppm = 500 |
| 500-088 | Feed1_2DeliverM axSpeed | Feed1/2 final speed used for ramp table calculation | Range = 0 to 20000mm/s | 45ppm = 6000 55ppm = 6000 |
| 500-089 | Feed1_2RollAcc Rate | Feed 1/2 Acceleration rate. | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-090 | ElevateSpeedT1T 2 | Elevate speed T1 and T2, the speed shown is the speed of the feed roll see Eng Plan for actual elevate rate | Range = 100 to 6000mm/s | 45ppm = 1250 55ppm = 1250 |
| 500-091 | ElevateMaxT1T2 Steps | Number of steps during elevate of the feed motor before a fault is called. | Range = 10 to 3000 | 45ppm = 500 55ppm = 500 |
| 500-092 | BumpUpT1T2Ste ps | Number of steps to move during Bump Up. | Range = 0 to 600 | 45ppm = 3 55ppm = 3 |
| 500-093 | BumpUpT1T2Spe ed | BumpUp speed T1 and T2, the speed shown is the speed of the feed roll see Eng Plan for actual elevate rate | Range = 100 to 6000mm/s | 45ppm = 1250 55ppm = 1250 |
| 500-094 | BumpUpMaxT1T 2Count | Number of consecutive bump ups before a fault is called. | Range = 0 to 300 | 45ppm = 6 55ppm = 6 |
| 500-095 | Tray1FeedMotOff Steps | The number of Tray1 feed motor steps to move from the TAR1 sensor S4 to the feed motor stop | Range = 0 to 1000 | 45ppm = 80 55ppm = 80 |
| 500-096 | Tray2FeedMotOff Steps | The number of Tray2 feed motor steps to move from the TAR2 sensor S5 to the feed motor stop | Range = 0 to 1000 | 45ppm = 80 55ppm = 80 |
| 500-097 | DuplexMotor- StepsRev | Number of steps per rev of the Duplex motor nominally 200. If doubled the half stepping is enabled | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|-----------------------------|------------------------------------|
| 500-098 | InvertMotor- StepsRev | Number of steps per rev of the Invert motor nominally 200. If doubled the half stepping is enabled | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |
| 500-099 | TAR2HighSpeed | TAR 1/2 High speed for transport from TAR2 to TAR1 (Scaled) | Range = 1000 to 8000mm/s | 45ppm = 2800 55ppm = 3000 |
| 500-100 | TARMotorCycle- OutTime | TAR motor cycle out delay from TE at TAR1 if no other prefeeds have been sent to the trays | Range = 0 to 1000ms | 45ppm = 400 55ppm = 400 |
| 500-101 | LELateToTAR2Fr omT2Time | max time from start of tray 2 feed to LE at TAR 2 Sensor to indicated if a sheet is late | Range = 0 to 5000ms | 45ppm = 600 55ppm = 600 |
| 500-102 | Tray1_2FeedRetr ies | Number of Tray 1 and 2 feeder retrys before a fault is called | Range = 0 to 10 | 45ppm = 3 55ppm = 3 |
| 500-103 | LELateToReg- | LE Late to Reg Sensor from | Range = 50 to | 45ppm = 275 |
| | SensorSteps | the simplex stage location | 2000 | 55ppm = 275 |
| 500-104 | SheetReadyLate Time_P1 | Minimum time between SheetReady Received by the scheduler and the Pag- eSync time. If the time is greater then a skipped pitch is required. | Range = 0 to 5000ms | 45ppm = 415 55ppm = 361 |
| 500-105 | T2HiSpeedDelay Steps | Steps to wait after the tray2 sensor is made before the TAR1/2 motor can be accelerated to High Speed. | Range = 0 to 5000 | 45ppm = 25 55ppm = 25 |
| 500-106 | LELateToTAR1Fr omTAR2Steps | Max steps from the LE at TAR2 sensor to the LE at TAR1 Sensor to indicate if a sheet is late | Range = 0 to 10000 | 45ppm = 565 55ppm = 565 |
| 500-107 | LELateToTAR1Fr omT1Time | Max time from start of tray 1 feed to LE at TAR 1 Sensor to indicate if a sheet is late | Range = 0 to 5000ms | 45ppm = 600 55ppm = 600 |
| 500-108 | TELateTAR1Fro mRegSteps | TE late to the TAR1 Sensor (S4) following the sheet released from the registra- tion rolls. The actual fault is paper size - value. Steps of the TAR Motor | Range = 0 to 20000 | 45ppm = 349 55ppm = 349 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|------------------------|------------------------------------|
| 500-109 | TELateRegSensF romTETAR1Steps | TE late to the Reg Sensor (S1) following the sheet TE event at TAR1 (S4) steps of the reg motor, Simplex | Range = 0 to 20000 | 45ppm = 197 55ppm = 197 |
| 500-110 | LELatePost- FuserFromReg- Time | LE late to Post Fuser Sensor from Registration roll release | Range = 300 to 2000ms | 45ppm = 920 55ppm = 920 |
| 500-111 | TELatePost- FuserFromLE- Time | TE Late to Post Fuser sen- sor from LE at Post Fuser Sensor. Paper sizems + NVM | Range = 0 to 1000ms | 45ppm = 140 55ppm = 140 |
| 500-112 | SheetDeliveredC entreTrayTime_P 1 | Time from TE at Post Fuser Sensor to declare that a sheet has been delivered to the centre output tray. | Range = 0 to 2000ms | 45ppm = 400 55ppm = 400 |
| 500-113 | InvertDelayToDup lexTimeD2 | Minimum delay before the inverter motor changes direction. Duplex Mode 2 | Range = 0 to 1000ms | 45ppm = 200 55ppm = 200 |
| 500-114 | InvertDelayToDup lexTimeD3 | Minimum delay before the inverter motor changes direction. Duplex Mode 3 | Range = 0 to 1000ms | 45ppm = 400 55ppm = 400 |
| 500-115 | InvertMotorHiS- peedDelaySteps | Steps of the Invert Motor from the TE at the post fuser sensor to the Invert going to high speed in the forward direction | Range = 0 to 1000 | 45ppm = 104 55ppm = 104 |
| 500-116 | LEPFSToInvMot- FwdTime | Time from the LE at post fuser sensor to the invert motor going to process speed forward | Range = 0 to 2000ms | 45ppm = 350 55ppm = 350 |
| 500-117 | InvMotorOffRe- verseSteps | Steps from Invert motor restart reverse into the duplex path that the motor is turned OFF. The actual value is Paper Size Steps - NVM | Range = 0 to 1000 | 45ppm = 115 55ppm = 115 |
| 500-118 | TEDuplexS3ToDu plexClearSteps | Steps of the Duplex Motor from the TE at duplex sensor S3 that the duplex path is clear and the duplex motor can be stopped. | Range = 0 to 5000 | 45ppm = 1200 55ppm = 1200 |
| 500-119 | Tray1VariableDel aySteps | Delay to wait steps from TAR1 Sensor to the TAR 1/ 2 motor going to variable speed | Range = 0 to 500 | 45ppm = 20 55ppm = 20 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|-------------------|------------------------------------|
| 500-120 | LELateToDuplexS 3FromInvertSteps | LE late to the duplex sen- sor, timed from the Restart into duplex Invert Motor Reverse. Steps of the Duplex Motor | Range = 0 to 6000 | 45ppm = 2324 55ppm = 2324 |
| 500-121 | TELateToS3From RegReleaseSteps | TE late to the duplex sensor S3, timed from the release of the LE at the registration rolls. Steps of the duplex motor. Paper SizeSteps - NVMsteps | Range = 0 to 5000 | 45ppm = 515 55ppm = 515 |
| 500-122 | LELateToReg- SensorDuplex- Steps | LE late to the registration sensor when sheets are delivered from the duplex path. Steps of the duplex motor | Range = 0 to 5000 | 45ppm = 335 55ppm = 335 |
| 500-123 | MSISimplexBuckl eStepsS1 | MSI Deskew Buckle steps at Registration Simplex Mode1 | Range = 0 to 500 | 45ppm = 146 55ppm = 146 |
| 500-124 | MSISimplexBuckl eStepsS2 | MSI Deskew Buckle steps at Registration Simplex Mode2 | Range = 0 to 500 | 45ppm = 146 55ppm = 146 |
| 500-125 | MSISimplexBuckl eStepsS3 | MSI Deskew Buckle steps at Registration Simplex Mode3 | Range = 0 to 500 | 45ppm = 146 55ppm = 146 |
| 500-126 | TELateRegSensF romTEDuplexS3S teps | TE late to the Reg Sensor (S1) following the sheet TE event at Duplex (S3) steps of the reg motor, Duplex | Range = 0 to 6000 | 45ppm = 2590 55ppm = 2590 |
| 500-127 | MSISim- pPitchTickAddi- tionTime | MSI Pitch, Addition to MSI Simplex Pitch all modes | Range = 0 to 6000 | 45ppm = 1930 55ppm = 1930 |
| 500-128 | MSIAcquireDelay | Delay to acquire the sheet from the MSI - ms | Range = 0 to 2000 | 45ppm = 0 55ppm = 0 |
| 500-129 | MSIRegReleas- eSteps | The maximum number of steps the TAR Motor will run to release the sheet into the registration rolls - steps | Range = 0 to 4000 | 45ppm = 971 55ppm = 971 |
| 500-130 | StepperSpeed- ScaleFactor | Scale Factor to be used for all stepper motor speeds | Range = 1 to 1000 | 45ppm = 10 55ppm = 10 |
| 500-131 | RollDiamter- ScaleFactor | Scale Factor to be used for all Roll Diameters | Range = 1 to 1000 | 45ppm = 100 55ppm = 100 |

| | | bie 1101 NVW ID 500-001 to | T | ı |
|---------|------------------------------|--|---------------------------|--------------------------------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 500-132 | StepperRatioS- caleFactor | Scale Factor to be used for all Stepper ratios | Range = 0 to 10000 | 45ppm = 10000 55ppm = 10000 |
| | FeedCL3AcqEna bleDelTime | Delay before feed clutch enabled to acquire a sheet | Range = 0 to 500ms | 45ppm = 50 55ppm = 50 |
| 500-134 | HCFWaitPoint3St eps | Tray3 Number of HCF Motor Steps from HCF Exit sensor to the HCF Wait Point | Range = 0 to 2000 | 45ppm = 60 55ppm = 60 |
| 500-135 | T3ExSenToClutch OffSteps | Tray3 number of steps of the feed motor from the LE at HCF Exit Sensor to tray 4 clutch off | Range = 0 to 1000 | 45ppm = 522 55ppm = 522 |
| 500-136 | NotUsed136 | Not used | Range = 0 to 214748647 | 45ppm = 0 55ppm = 0 |
| 500-137 | T3WaitPointReID elTime | Minimum Delay time from Release sheet PFM (sheet ahead) to sheet being released from HCF Wait Point | Range = 0 to 500 | 45ppm = 40 55ppm = 40 |
| 500-138 | FeedMotorVeloc- ity | Nominal feed motor velocity (Scaled) | Range = 0 to 10000mm/s | 45ppm = 5250 55ppm = 5250 |
| 500-139 | HCFMotorNom- Speed | Nominal HCF Transport Motor Velocity (scaled | Range = 0 to 10000mm/s | 45ppm = 5250 55ppm = 5250 |
| 500-140 | T3SheetReadyTi me | Delay before sheet ready is sent tray 3 only | Range = 0 to 500 | 45ppm = 20 55ppm = 20 |
| 500-141 | ClutchToFeedDe- layTime | Time from the Clutch enable to starting the Feed Motor | Range = 0 to 500ms | 45ppm = 10 55ppm = 10 |
| 500-142 | FeedMotorRe- tardSpeed | Speed that the feed motor runs when the clutch is dis- abled (retard roll geared to run half this speed) (Scaled) | Range = 0 to 6000mm/s | 45ppm = 1800 55ppm = 1800 |
| 500-143 | LElateToFeed3Ti me | Max time Tray3 Clutch enable to LE at Tray 3 Feed sensor | Range = 0 to 3000ms | 45ppm = 500 55ppm = 500 |
| 500-144 | LElateToTAR3Tim e | Max time Tray3 Clutch enable to LE at Tray3 TAR sensor | Range = 0 to 6000ms | 45ppm = 600 55ppm = 600 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------|--|---------------------------|--------------------------------------|
| 500-145 | PurgeEnable | HCF(Far) Purge Enable - moved sheets to the left hand door for easier clear- ance | Range = 0 to 1 | 45ppm = 1 55ppm = 1 |
| 500-146 | HCFRetries | HCF(FAR) Number of feed retry attempts | Range = 0 to 10 | 45ppm = 5 55ppm = 5 |
| 500-147 | HCFFeedMotor- StepsPerRev | Number of steps per rev of the feed motor nominally 200. If doubled then half stepping is enabled | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |
| 500-148 | HCFFeedRoll- Diameter | HCF Feed Roll Diameter (scaled) | Range = 1000 to 5000mm | 45ppm = 2000 55ppm = 2000 |
| 500-149 | HCFFeedRollRa- tio | Feed Roll Ratio to motor (Scaled) | Range = 0 to 10000 | 45ppm = 8300 55ppm = 8300 |
| | HCFFeedBas- eSpeed | HCF Feed Roll Base Speed (Scaled) | Range = 0 to 3000mm/s | 45ppm = 1390 55ppm = 1390 |
| 500-151 | HCFFeedFinal- Speed | HCF Feed Roll final speed used for ramp table calculation (scaled) | Range = 0 to 10000mm/s | 45ppm = 6000 55ppm = 6000 |
| 500-152 | HCFFeedAc- cRate | HCF Feed Roll Acceleration rate. | Range = 0 to 50000mm/s | 45ppm = 21582 55ppm = 21582 |
| 500-153 | HCFTARMotor- StepsPerRev | Number of steps per rev of the TAR motor nominally 200. If doubled then half stepping is enabled | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |
| 500-154 | HCFTARRoll- Diameter | HCF TAR Roll Diameter (scaled) | Range = 1000 to 5000mm | 45ppm = 1500 55ppm = 1500 |
| 500-155 | HCFTARRollRa- tio | TAR Roll Ratio to motor (Scaled) | Range = 0 to 100000 | 45ppm = 14737 55ppm = 14737 |
| 500-156 | HCFTARBas- eSpeed | HCF TAR Roll Base Speed (Scaled) | Range = 0 to 3000mm/s | 45ppm = 1390 55ppm = 1390 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|---------------------------|--------------------------------------|
| 500-157 | HCFTARFinal- Speed | HCF TAR Roll final speed used for ramp table calculation (scaled) | Range = 0 to 10000mm/s | 45ppm = 6000 55ppm = 6000 |
| 500-158 | HCFTARAccRate | HCF TAR Roll Acceleration rate. | Range = 0 to 50000mm/s | 45ppm = 21582 55ppm = 21582 |
| 500-159 | LElateToTAR2Fro mHCFTime | Maximum time from HCF wait point to TAR2 before declaring a sheet is late. | Range = 0 to 1100ms | 45ppm = 1100 55ppm = 1100 |
| 500-160 | ArmRegistrationS ensorLEDuplex_ P1 | Arm Reg Sensor for LE Duplex, Delay from DSL release to arm reg sensor for LE event | Range = 0 to 200 | 45ppm = 26 55ppm = 26 |
| 500-161 | ArmRegistrationS ensorTEDuplex_ P1 | Arm Reg Sensor for TE Duplex, Delay from TE Duplex Sensor. Steps of the Reg Motor | Range = 0 to 5000 | 45ppm = 1784 55ppm = 0 |
| 500-162 | LElateToregSen- sorMSISteps | LE Late to Reg Sensor from the MSI | Range = 1000 to 6000 | 45ppm = 2024 55ppm = 2024 |
| 500-163 | OffsetMotor- Speed | Speed that the Exit offset motor is to run. No ramp used go directly to speed. | Range = 0 to 5000 | 45ppm = 2000 55ppm = 2000 |
| 500-164 | OffsetToCentreSt- eps | Used to move the offset from the flag to the centre location during initialise and offset. | Range = 0 to 100 | 45ppm = 2 55ppm = 2 |
| 500-165 | OffsetDistanceS- teps | Number of steps to offset the sheet. | Range = 0 to 200 | 45ppm = 48 55ppm = 48 |
| 500-166 | OffsetTEDelay- Time | Delay from the TE at post fuser sensor to start the offset | Range = 0 to 1000ms | 45ppm = 100 55ppm = 100 |
| 500-167 | OffsetHomeDe- layTime | Delay from the TE at post fuser sensor to start the offset move to home. | Range = 0 to 1000ms | 45ppm = 450 55ppm = 450 |
| 500-168 | OffsetFaultSteps | Max number of steps to declare a offset failure if off- set sensor event has not been detected | Range = 0 to 500 | 45ppm = 120 55ppm = 120 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|---------------------------|--------------------------------------|
| 500-169 | Finisher Trans- port Process Speed | FinXportProcessSpeed | Range = 0 to 3000mm/s | 45ppm = 2620 55ppm = 2620 |
| 500-170 | FinXportRollBas- eSpeed | Finisher Transport Motor Base Speed (scaled) | Range = 0 to 3000mm/s | 45ppm = 800 55ppm = 800 |
| 500-171 | FinXportDeliver- MaxSpeed | Finisher Transport Motor Max Speed (scaled) | Range = 0 to 5000mm/s | 45ppm = 2700 55ppm = 2700 |
| 500-172 | FinXportRollAc- cRate | Finisher Transport Motor Acceleration Rate | Range = 0 to 30000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-173 | FinXportRoll- Diameter | Finisher Transport Drive Roll Diameters (scaled) | Range = 1000 to 2500 | 45ppm = 1600 55ppm = 1600 |
| 500-174 | Finisher Trans- port Motor to Roll Drive ratio (scaled) | FinXportRatio | Range = 0 to 100000 | 45ppm = 6667 55ppm = 6667 |
| 500-175 | FinXportMotor- StepsRev | Number of steps per rev of the feed motor nominally 200. If doubled then half stepping is enabled | Range = 0 to 600 | 45ppm = 200 55ppm = 200 |
| 500-176 | LELateToFinX- portSensorTime | Time from LE at Post Fuser Sensor to the LE at the Fin- isher Transport Sensor to detect if a sheet is late. | Range = 0 to 5000ms | 45ppm = 640 55ppm = 640 |
| 500-177 | TELateToFinX- portSensorTime | Time from the LE at the Fin- isher Transport Sensor to the TE at the finisher trans- port sensor to detect if a sheet is late. | Range = 0 to 1000ms | 45ppm = 140 55ppm = 140 |
| 500-178 | TAR1MSIHomeS peed_P1 | MSI High Speed for return to cam home after release from registration | Range = 100 to 5000mm/s | 45ppm = 2831 55ppm = 2831 |
| 500-179 | ArmFinXportSen- LEFromLEPostF- STime | Arm the finisher transport sensor to detect the LE from the LE at the Post Fuser Sensor | Range = 0 to 5000ms | 45ppm = 445 55ppm = 445 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------------------|------------------------------------|
| 500-180 | ArmFinXportS- enTEFrom- LEFinXpoTime | Arm the finisher transport sensor to detect the TE from the LE at the Finisher Transport Sensor = Paper- Size - NVM | Range = 0 to 3000ms | 45ppm = 20 55ppm = 20 |
| 500-181 | T2HiSpeedDelay 2Steps | Steps to wait after the TAR 1 Sensor goes clear before the TAR1/2 motor can be accelerated to high speed | Range = 0 to 5000 | 45ppm = 15 55ppm = 15 |
| 500-182 | TELateToTAR2Fr omLETAR1Steps | TE late to TAR2 Sensor from the LE at TAR1 event. Steps of the TAR motor | Range = 0 to 6000 | 45ppm = 281 55ppm = 281 |
| 500-183 | MSICamHome- Steps | Number of steps of the MSI TAR motor to run after the MSI Cam home sensor is made to ensure that the MSI tray is in the correct home location | Range = 0 to 1000 | 45ppm = 49 55ppm = 49 |
| 500-184 | NvmHCFLHEnco- deCount | HCF LH tray Current media level | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 500-185 | NvmHCFRHEn- codeCount | HCF RH tray Current media level | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 500-186 | NvmHCFRHTray- Present | Specifies to whether HCF RH tray is fitted or not in the device.This can be set in manufacturing. | 0 = Not fitted 1 = Fitted | 45ppm = 1 55ppm = 1 |
| 500-187 | NvmTrayOpenTi- meTreshold | Tray Open time | Range = 0 to 10000ms | 45ppm = 5000 55ppm = 5000 |
| 500-188 | NvmHCFLHMax- EncodeCount | Maximum number of encoder events that can be received while elevating HCFLH Tray | Range = 1 to 100 | 45ppm = 65 55ppm = 65 |
| 500-189 | NvmHCFRHMax- EncodeCount | Maximum number of encoder events that can be received while elevating HCFRH Tray. | Range = 1 to 100 | 45ppm = 95 55ppm = 95 |
| 500-190 | LElateToFeed4Ti me | Max time Tray 4 Clutch enable to LE at Tray 4 Feed sensor | Range = 0 to 3000ms | 45ppm = 500 55ppm = 500 |
| 500-191 | LElateToTAR4Tim e | Max time Tray 4 Clutch enable to LE at Tray 4 TAR sensor | Range = 0 to 6000ms | 45ppm = 1500 55ppm = 1500 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|---------------------------|------------------------------------|
| 500-192 | Tray4LELateToH CFExitTime | Max time from Tray 4 feed motor start, when the sheet is at the Horizontal wait point to the LE at the HCF exit Sensor | Range = 0 to 6000ms | 45ppm = 550 55ppm = 550 |
| 500-193 | T4FeedWPSteps | Number of steps past the Tray 4 TAR sensor to start ramping down the feed motor | Range = 0 to 1000 | 45ppm = 0 55ppm = 0 |
| 500-194 | T4TARSensorTo ClutchOffSteps | Number of steps from the LE at TAR sensor to the clutch disable | Range = 0 to 2000 | 45ppm = 260 55ppm = 260 |
| 500-195 | DelayTAR3Senso rClearSteps | Step delay from TE at TAR 3 sensor to allow the sheet TE to be clear of TAR 3 nip before the TAR motor can change speed | Range = 0 to 500 | 45ppm = 23 55ppm = 23 |
| 500-196 | Feed4AcqDelTim e | Tray 4 delay to start sheet acquire from the tray | Range = 0 to 2000ms | 45ppm = 164 55ppm = 164 |
| 500-197 | HCFHiSpeed | HCF motor high speed to enable catch up and productivity | Range = 0 to 10000mm/s | 45ppm = 5250 55ppm = 5250 |
| 500-198 | HCFWaitPoint4St eps | 4 sensor to the HCF wait point | Range = 0 to 2000 | 45ppm = 60 55ppm = 60 |
| 500-199 | T4WaitPointRelD elTime | Minimum Delay time from Release sheet PFM (sheet ahead) to sheet being released from HCF Wait Point | Range = 0 to 500ms | 45ppm = 40 55ppm = 40 |
| 500-200 | LELateToFinish- erFromFinXport- Time | Time from the LE at FinX- port sensor to the LE arriv- ing at the finisher to declare that the sheet is late | Range = 0 to 10000ms | 45ppm = 2280 55ppm = 2280 |
| 500-201 | MSICamFlagLog- icDirection | Cam home Sensor Logic Level, enables either a flag or gap actuator | Range = 0 to 1 | 45ppm = 0 55ppm = 0 |
| 500-202 | MSISmallShee- tRegReleas- eSteps | The maximum number of steps the TAR Motor will run to release the sheet into the registration rolls, sheets less than 210mm in the pro- cess direction | Range = 0 to 4000 | 45ppm = 81 55ppm = 81 |
| 500-203 | OffsetMotor- StepsRev | Number of steps/rev of the offset motor | Range = 0 to 200 | 45ppm = 96 55ppm = 96 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|--|-----------------------------|--------------------------------------|
| 500-204 | OffsetGearPCDi- ameter | Diameter of the offset motor drive gear PCD (scaled) | Range = 0 to 5000mm | 45ppm = 800 55ppm = 800 |
| 500-205 | OffsetRatio | Offset Drive Ratio (Scaled) | Range = 0 to 30000 | 45ppm = 10000 55ppm = 10000 |
| 500-206 | · | Offset Base Speed (scaled) | Range = 0 to 6000mm/s | 45ppm = 2000 55ppm = 2000 |
| 500-207 | OffsetMaxSpeed | Offset Final Speed for ramp Table Calc (scaled) | Range = 0 to 6000mm/s | 45ppm = 3500 55ppm = 3500 |
| 500-208 | OffsetRollAc- cRate | Offset Motor Acceleration Rate | Range = 0 to 30000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-209 | Tray1MediaLevel Steps | Tray 1 media level steps | Range = 0 to 500 | 45ppm = 0 55ppm = 0 |
| 500-210 | Tray2MediaLevel Steps | Tray 2 media level steps | Range = 0 to 500 | 45ppm = 0 55ppm = 0 |
| 500-211 | MaxMediaLev- elElevateSteps | Maximum number of encoder events that can be received while elevating PFM Trays (T1 / T2). | Range = 0 to 400 | 45ppm = 350 55ppm = 350 |
| 500-212 | MaxHCFBumpAt- tempts | Number of consecutive bump ups before a fault is called. | Range = 1 to 5 | 45ppm = 2 55ppm = 2 |
| 500-213 | HCFElevation- Timeout | Max threshold (from com- mencement of elevation) for tray 3 stack height sensor to change state. If not Tray 3 elevate fault shall be raised | Range = 1000 to 100000ms | 45ppm = 40000 55ppm = 40000 |
| 500-214 | HCFBumpTime- out | Threshold to declare bump- up failure fault | Range = 1 to 10000ms | 45ppm = 1000 55ppm = 1000 |
| 500-215 | MSIWidthSenso- rOffsetmm | MSI width guide offset in mm. Nominally set to 100=no offset. Reducing NVM decreases actual reading. | Range = 0 to 300mm | 45ppm = 100 55ppm = 100 |
| 500-216 | T1ElevateSlackSt eps | Offset required for calculating accurate tray level - T1 | Range = 0 to 350 | 45ppm = 172 55ppm = 172 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|-----------------------------|--------------------------------------|
| 500-217 | T2ElevateSlackSt eps | Offset required for calculating accurate tray level - T2 | Range = 0 to 350 | 45ppm = 120 55ppm = 120 |
| 500-218 | HCFLHEle- vateSlackSteps | Offset required for calculating accurate tray level - T3 | Range = 0 to 65 | 45ppm = 10 55ppm = 10 |
| 500-219 | HCFRHEle- vateSlackSteps | Offset required for calculating accurate tray level - T4 | Range = 0 to 95 | 45ppm = 10 55ppm = 10 |
| 500-220 | PfmTraySize- SensingEnable | PFM Tray Size Sensing Enable/Disable | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 500-221 | TAR1MaxVariable Speed | TAR1/2 maximum variable speed that the TAR motor can use when sheet is late and catch up is required. | Range = 0 to 8000mm/s | 45ppm = 2800 55ppm = 3300 |
| 500-222 | MSISpeed_P1 | MSI Process Speed | Range = 100 to 5000mm/s | 45ppm = 2600 55ppm = 2600 |
| 500-223 | MSIRollDiameter | MSI Roll Diameter (scaled) | Range = 1000 to 6000mm | 45ppm = 3600 55ppm = 3600 |
| 500-224 | MSIRatio | MSI Drive Ratio (scaled) | Range = 0 to 20000 | 45ppm = 2376 55ppm = 2376 |
| 500-225 | MSIRollBas- eSpeed | MSI Base Speed (scaled) | Range = 0 to 3000mm/s | 45ppm = 600 55ppm = 600 |
| 500-226 | MSIDeliverMax- Speed | MSI Final Speed used for ramp table calculation (scaled) | Range = 0 to 6000mm/s | 45ppm = 4000 55ppm = 4000 |
| 500-227 | MSIRollAccRate | MSI acceleration rate | Range = 10000 to 50000mm/s | 45ppm = 15696 55ppm = 15696 |
| 500-228 | MSIMotor- StepsPerRev | Steps per Rev of the MSI motor. | Range = 0 to 1000 | 45ppm = 200 55ppm = 200 |
| 500-229 | FuserExitMot- Shutdown | Fuser Exit Motor Turned OFF during shutdown. Timed from receiving the shutdown request. | Range = 0 to 5000ms | 45ppm = 155 55ppm = 155 |
| 500-230 | FinXportMotCy- cOut | Finisher Transport Motor Turned OFF during cycle out. Timed from the TE of last sheet exiting the trans- fer nip. | Range = 0 to 10000ms | 45ppm = 4000 55ppm = 4000 |

| NVM ID | NVM ID NVM Name NVM Description Settings Default | | | | |
|---------|--|--|--------------------------|------------------------------------|--|
| | | • | | | |
| 500-231 | FinXportMotShut- down | Finisher Transport Motor Turned OFF during shut- down. | Range = 0 to 10000ms | 45ppm = 155 55ppm = 155 | |
| 500-232 | HCFTarMotorPur geTime1 | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 0 to 2000ms | 45ppm = 200 55ppm = 200 | |
| 500-233 | HCFTarMotorPur geTime2 | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 0 to 3000ms | 45ppm = 400 55ppm = 400 | |
| 500-234 | HCFTarMotorPur geTime3 | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 0 to 4000ms | 45ppm = 1000 55ppm = 1000 | |
| 500-235 | FeedDeliverTime | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 0 to 1000ms | 45ppm = 100 55ppm = 100 | |
| 500-236 | FeedNip- ClearTime | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 100 to 4000ms | 45ppm = 2500 55ppm = 2500 | |
| 500-237 | StraySheetMotor- ForwardTime | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 100 to 5000ms | 45ppm = 1000 55ppm = 1000 | |
| 500-238 | StraySheetMotor- ReverseTime | Following a Jam, Power On and LH door Close, stray sheet detection is required, which includes driving the fuser and invert motor backwards. | Range = 100 to 5000ms | 45ppm = 2000 55ppm = 2000 | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|-----------------------------|--------------------------------------|
| 500-239 | SSDFinXportIni- tialTime | Stray Sheet Detection, Horizontal Transport initial run time | 6000ms | 45ppm = 2000 55ppm = 2000 |
| 500-240 | SSDFinXportAd- ditionalTime | Stray Sheet Detection, Horizontal Transport additional run time | 6000ms | 45ppm = 2000 55ppm = 2000 |
| 500-241 | SSDPowerOnDe- lay | Stray Sheet Detection, Power On Delay | Range = 0 to 100000ms | 45ppm = 60000 55ppm = 60000 |
| 500-242 | MSICamHome- Timeout | MSI Cam Home Timeout check | Range = 0 to 10000ms | 45ppm = 2000 55ppm = 2000 |
| 500-243 | MSIDelayToInitia- liseTime | MSI Time delay from paper present clear to initialising the elevate tray if required. | Range = 0 to 10000ms | 45ppm = 650 55ppm = 650 |
| 500-244 | MSIDelayToEmp- tyCheckTime | Delay to check paper present sensor in the MSI is clear. | Range = 0 to 2000ms | 45ppm = 470 55ppm = 470 |
| 500-245 | MSIPaperPre- sentClearTime | The time that the paper present needs to remain clear to ensure that the MSI is really clear. | Range = 0 to 1000ms | 45ppm = 100 55ppm = 100 |
| 500-246 | OffsetEnable | Determines whether offset- ting is enabled or not | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 500-247 | DoorSettleTime | Delay to ensure door has closed completely | Range = 0 to 5000ms | 45ppm = 2000 55ppm = 2000 |
| 500-248 | DuplexDeliverRe gToTransferTime _P1 | Time to deliver reg to transfer. | Range = 0 to 1000ms | 45ppm = 163 55ppm = 163 |
| 500-249 | MSIDeliverFrom- MSIToReg | Used to calculate the start time of the MSI feed | Range = 0 to 5000ms | 45ppm = 1350 55ppm = 1350 |
| 500-250 | XeroReady- TimeMSI | Time for the 1st sheet trans- fer time from sheet ready | Range = 0 to 5000ms | 45ppm = 1400 55ppm = 1400 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|-------------------------|------------------------------------|
| 500-251 | XeroReady- TimeMSIAfter- Shutdown | Time for the 1st sheet trans- fer time from sheet ready following a shutdown | Range = 0 to 5000ms | 45ppm = 2900 55ppm = 2900 |
| 500-252 | MSIArmRegistra- tionSensorLE | Arm Reg Sensor for LE. Delay from MSI Sheet start to feed to sensor armed | Range = 0 to 2000ms | 45ppm = 162 55ppm = 162 |
| 500-253 | MSIArmRegSen- sorTE | Arm Reg Sensor for TE, Delay from Registration motor start | Range = 0 to 2000ms | 45ppm = 392 55ppm = 392 |
| 500-254 | MSIArmRegSen- sorTEMSITrans- parencies | Arm Reg Sensor for TE, Delay from Registration motor start for transparen- cies | Range = 0 to 2000ms | 45ppm = 295 55ppm = 295 |
| 500-255 | MSIRegRe- leaseMinSteps | The minimum number of steps the TAR Motor will run to release the sheet into the registration rolls | Range = 0 to 4000 | 45ppm = 148 55ppm = 148 |
| 500-256 | PitchTickSimpMo de4_P1 | Simplex Pitch Mode 4 | Range = 0 to 10000ms | 45ppm = 6000 55ppm = 6000 |
| 500-257 | PitchTickDupMod e4_P1 | Duplex Pitch Mode 4 | Range = 0 to 10000ms | 45ppm = 6000 55ppm = 6000 |
| 500-258 | MSISimpPitchTic kAdditionM4Time | MSI Pitch Addition to MSI Simplex Pitch Mode 4 | Range = 0 to 6000ms | 45ppm = 6000 55ppm = 6000 |
| 500-259 | PitchMaxPaperSi zemmS4 | Max paper Size Pitch Mode 4 Simplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-260 | PitchMaxPaperSi zemmD4 | Max paper Size Pitch Mode 4 Duplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-261 | SimplexBuckleSte psS4 | Deskew Buckle steps at Registration Simplex Mode 4 | Range = 0 to 500 | 45ppm = 80 55ppm = 80 |
| 500-262 | MSISimplexBuckl eStepsS4 | MSI Deskew Buckle steps at Registration Simplex Mode 4 | Range = 0 to 500 | 45ppm = 146 55ppm = 146 |
| 500-263 | DuplexBuckleSte psD4 | Deskew Buckle steps at Registration Duplex Steps of the duplex motor Mode 4 | Range = 0 to 1000 | 45ppm = 143 55ppm = 143 |
| 500-264 | DuplexStageDela yConstantD4_P1 | Delay to release from DSL. | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|------------------------------|------------------------------------|
| 500-265 | InvertDelayToDup lexTimeD4 | Minimum delay before the inverter motor changes direction. | Range = 0 to 1000ms | 45ppm = 400 55ppm = 400 |
| 500-266 | DuplexHighSpeed D4_P1 | Duplex High Speed Duplex Mode 4 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-267 | InvertHighSpeed4 _P1 | Invert High Speed Duplex Mode 4 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-268 | FuserMotorClock- Freq | Fuser motor clock frequency | Range = 0 to 10000Hz | 45ppm = 0 55ppm = 0 |
| 500-269 | PRMotorClock- Freq | PR motor clock frequency | Range = 0 to 10000Hz | 45ppm = 0 55ppm = 0 |
| 500-270 | SheetReadyLate Time_M2 | Minimum time between Sheet Ready Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 361 55ppm = 361 |
| 500-271 | SheetReadyLate Time_M3 | Minimum time between Sheet Ready Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 361 55ppm = 361 |
| 500-272 | SheetReadyLate Time_M4 | Minimum time between Sheet Ready Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 361 55ppm = 361 |
| 500-273 | TAR2HighSpeed_ M2 | TAR 1/2 High speed for transport from TAR2 to TAR1 Mode2 (Scaled). | Range = 1000 to 8000mm/s | 45ppm = 3000 55ppm = 3000 |
| 500-274 | TAR2HighSpeed_ M3 | TAR 1/2 High speed for transport from TAR2 to TAR1 Mode3 (Scaled) | Range = 1000 to 8000mm/s | 45ppm = 3000 55ppm = 3000 |
| 500-275 | TAR2HighSpeed_ M4 | TAR 1/2 High speed for transport from TAR2 to TAR1 Mode4 (Scaled). | Range = 1000 to 8000mm/s | 45ppm = 3000 55ppm = 3000 |
| 500-276 | TAR1MaxVariable Speed_M2 | TAR1/2 maximum variable speed that the TAR motor can use when sheet is late and catch up is required. | Range = 0 to 8000mm/s | 45ppm = 3300 55ppm = 3300 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|---|-----------------------------|------------------------------------|
| 500-277 | TAR1MaxVariable Speed_M3 | TAR1/2 maximum variable speed that the TAR motor can use when sheet is late and catch up is required. | Range = 0 to 8000mm/s | 45ppm = 3300 55ppm = 3300 |
| 500-278 | TAR1MaxVariable Speed_M4 | speed that the TAR motor can use when sheet is late and catch up is required. | Range = 0 to 8000mm/s | 45ppm = 3300 55ppm = 3300 |
| 500-279 | MsiWidthDetecti- onTolerance | MSI Size Sensing Tolerance. 0.1mm per unit. | Range = 0 to 1000 | 45ppm = 150 55ppm = 150 |
| 500-280 | EnableDown- StreamDelivery | Enable Down Stream Delivery. | Range = 0 to 1000 | 45ppm = 0 55ppm = 0 |
| 500-281 | MSIPaperT- ESteps | Number of steps to run to TE at the MSI feed roll. | Range = 0 to 4000 | 45ppm = 890 55ppm = 890 |
| 500-282 | MSiDelayClutch- ToMotorTime | Delay from clutch enger- gised to MSI TAR motor start | Range = 0 to 500ms | 45ppm = 30 55ppm = 30 |
| 500-283 | EnableMsiWith- Clutch | Enable clutch control on MSI | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 500-284 | MSISimpPitchTic kM5Time | MSI Simplex Pitch for mode 5 | Range = 0 to 6000ms | 45ppm = 1930 55ppm = 1930 |
| 500-397 | PitchTickSimpM5 _P1 | Simplex Pitch Mode 5, Transparencies <216mm in the process direction. | Range = 400 to 5000ms | 45ppm = 1220 55ppm = 1090 |
| 500-398 | PitchTickDupM5_ P1 | Duplex Pitch Mode 5, Transparencies <216mm in the process direction. | Range = 400 to 5000ms | 45ppm = 1090 55ppm = 1090 |
| 500-399 | MSISimpPitchAd dM5 | MSI Pitch, Addition to Simplex Pitch Mode5 | Range = 0 to 6000ms | 45ppm = 705 55ppm = 840 |
| 500-400 | PitchMaxPaprSiz emmS5 | Max paper/Transparency Size Pitch Mode 5 Simplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-401 | PitchMaxPaprSiz emmD5 | Max paper/Transparency Size Pitch Mode 5 Duplex | Range = 100 to 700mm | 45ppm = 216 55ppm = 216 |
| 500-402 | SheetReadyLate TimeM5 | Minimum time between SheetReady Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 415 55ppm = 361 |
| 500-403 | SimplexBuckleSte psS5 | Deskew Buckle steps at Registration Simplex Trans- parency Mode5 | Range = 0 to 500 | 45ppm = 80 55ppm = 80 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|------------------------------|------------------------------------|
| 500-404 | MSISimplexBuckl eStepsS5 | MSI Deskew Buckle steps Transparency at Registra- tion Simplex Mode5 | Range = 0 to 500 | 45ppm = 113 55ppm = 113 |
| 500-405 | DupBuckleSteps D5 | Deskew Buckle steps Transparency at Registra- tion Duplex Steps of the duplex motor Mode5 | Range = 0 to 1000 | 45ppm = 143 55ppm = 143 |
| 500-406 | DupStageDlyCon sD5_P1 | Delay to release from DSL. Transparency Duplex Mode5 | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |
| 500-407 | InvrtDlayToDupTi meD5 | Minimum delay before the inverter motor changes direction Transparency. Duplex Mode 5 | Range = 0 to 1000ms | 45ppm = 15 55ppm = 15 |
| 500-408 | TAR1MaxVariSpe edM5 | TAR1/2 maximum variable speed that the TAR motor can use when sheet is late and catch up is required. Mode5 | Range = 0 to 8000mm/s | 45ppm = 3300 55ppm = 3300 |
| 500-409 | DuplexHighSpeed D5_P1 | Duplex High Speed Duplex Transparency Mode 5 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 4000 55ppm = 4000 |
| 500-410 | InvertHighSpeed5 _P1 | Invert High Speed Duplex Transparency Mode 5 (Scaled) | Range = 1000 to 10000mm/s | 45ppm = 4000 55ppm = 4000 |
| 500-411 | SheetExitMsgDe- lay | Delay to sending 'Sheet Exit' to finisher. | Range = 0 to 4000ms | 45ppm = 1800 55ppm = 1800 |
| 500-412 | RegApproach- Speed | Speed the Reg motor runs when the sheet is being delivered from reg to trans- fer. | Range = 1000 to 5500mm/s | 45ppm = 2590 55ppm = 2590 |
| 500-413 | RegBuckleSpeed | Speed the Reg motor runs when the buckle is being created at transfer. | Range = 1000 to 5500mm/s | 45ppm = 2590 55ppm = 2590 |
| 500-414 | TARApproach- Speed | Speed the TAR motor runs when the sheet is being delivered from reg to trans- fer | Range = 100 to 5000mm/s | 45ppm = 2590 55ppm = 2590 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|--|-----------------------------|------------------------------------|
| 500-415 | TARBuckleSpeed | Speed the TAR Motor runs when the buckle is being created at transfer. | Range = 100 to 5000mm/s | 45ppm = 2590 55ppm = 2590 |
| 500-416 | MSIApproach- Speed | Speed the MSI motor runs when the sheet is being delivered from reg to trans- fer. | Range = 100 to 5000mm/s | 45ppm = 2831 55ppm = 2831 |
| 500-417 | MSIBuckleSpeed | Speed the MSI motor runs when the buckle is being created at transfer. | Range = 100 to 5000mm/s | 45ppm = 2831 55ppm = 2831 |
| 500-418 | DuplexApproach- Speed | Speed the Duplex motor runs when the sheet is being delivered from reg to transfer. | Range = 100 to 5000mm/s | 45ppm = 2600 55ppm = 2600 |
| 500-419 | DuplexBuck- leSpeed | Speed the Duplex motor runs when the buckle is being created at transfer. | Range = 100 to 5000mm/s | 45ppm = 2600 55ppm = 2600 |
| 500-420 | TransferAp- proachTime | Time to run Approach speed, from Reg Release, before going to Transfer Buckle Speed | Range = 0 to 3000mm/s | 45ppm = 175 55ppm = 175 |
| 500-421 | TransferBuckle- Time | Time to run buckle speed, from reg release. | Range = 0 to 3000mm/s | 45ppm = 525 55ppm = 525 |
| 500-422 | InterlockSettle- Time | De-bounce of door inter- locks | Range = 0 to 2000ms | 45ppm = 500 55ppm = 500 |
| 500-423 | SheetReadyLate Time_MSI | Minimum time between SheetReady Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 800 55ppm = 800 |
| 500-424 | TAR2HighSpeed_ M5 | TAR 1/2 High speed for transport from TAR 2 to TAR1 Mode 5 (Scaled), Transparencies <216mm in the process direction. | Range = 1000 to 8000mm/s | 45ppm = 3000 55ppm = 3000 |
| 500-425 | TAR2HighSpeed_ M6 | TAR 1/2 High speed for transport from TAR2 to TAR1 Mode 6 (Scaled), Envelopes | Range = 1000 to 8000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-426 | MSISimpPitchTic kM6Time | MSI Simplex Pitch for mode 6. Envelopes | Range = 0 to 10000ms | 45ppm = 6000 55ppm = 6000 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|---|------------------------------|------------------------------------|
| 500-427 | PitchTickSimpMo de6_P1 | Simplex Pitch Mode 6. Envelopes | Range = 400 to 10000ms | 45ppm = 6000 55ppm = 6000 |
| 500-428 | PitchTickDupMod e6_P1 | Duplex Pitch Mode 6. Envelopes | 10000ms | 45ppm = 6000 55ppm = 6000 |
| 500-429 | PitchMaxPaperSi zemmS6 | Max paper/Transparency Size Pitch Mode 6 Simplex Envelopes | Range = 100 to 700mm | 45ppm = 433 55ppm = 433 |
| 500-430 | PitchMaxPaperSi zemmD6 | Max paper/Transparency Size Pitch Mode 6 Duplex Envelopes | Range = 100 to 700mm | 45ppm = 433 55ppm = 433 |
| 500-431 | SheetReadyLate Time_M6 | Minimum time between SheetReady Received by the scheduler and the Pag- eSync time. | Range = 0 to 5000ms | 45ppm = 361 55ppm = 361 |
| 500-432 | psS6 | Deskew Buckle steps at Registration Simplex Mode 6 Envelopes | Range = 0 to 500 Steps | 45ppm = 80 55ppm = 80 |
| 500-433 | MSISimplexBuckl eStepsS6 | MSI Deskew Buckle steps Envelopes at Registration Simplex Mode 6 | Range = 0 to 500 Steps | 45ppm = 113 55ppm = 113 |
| 500-434 | DuplexBuckleSte psD6 | Deskew Buckle steps Transparency at Registra- tion Duplex Steps of the duplex motor Mode 6, Envelopes | Range = 0 to 1000 Steps | 45ppm = 143 55ppm = 143 |
| 500-435 | DuplexStageDela yConstantD6_P1 | Delay to release from DSL. Transparency Duplex Mode 6, Envelopes | Range = 0 to 1000ms | 45ppm = 260 55ppm = 260 |
| 500-436 | InvertDelayToDup lexTimeD6 | Minimum delay before the inverter motor changes direction Transparency. Duplex Mode 6, Envelopes | Range = 0 to 1000ms | 45ppm = 400 55ppm = 400 |
| 500-437 | TAR1MaxVariable Speed_M6 | TAR1/2 maximum variable speed that the TAR motor can use when sheet is late and catch up is required. Mode 6, Envelopes | Range = 0 to 8000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-438 | DuplexHighSpeed D6_P1 | Duplex High Speed Duplex Transparency Mode 6 (Scaled), Envelopes | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|---|------------------------------|------------------------------------|
| 500-439 | InvertHighSpeed6 _P1 | Invert High Speed Duplex Transparency Mode 6 (Scaled), Envelopes | Range = 1000 to 10000mm/s | 45ppm = 2570 55ppm = 2570 |
| 500-440 | XeroCycleOutDel ayM1 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 1 Sheets < 216 | Range = 0 to 10000ms | 45ppm = 0 55ppm = 0 |
| 500-441 | XeroCycleOutDel ayM2 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 2 Standard Media 216 to 365 | Range = 0 to 10000ms | 45ppm = 0 55ppm = 0 |
| 500-442 | XeroCycleOutDel ayM3 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 3 Standard Media > 365 | Range = 0 to 10000ms | 45ppm = 0 55ppm = 0 |
| 500-443 | XeroCycleOutDel ayM4 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 4 Narrow sheets < 150 | Range = 0 to 10000ms | 45ppm = 0 55ppm = 0 |
| 500-444 | XeroCycleOutDel ayM5 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 5 Transparencies | Range = 0 to 10000ms | 45ppm = 0 55ppm = 0 |
| 500-445 | XeroCycleOutDel ayM6 | Delay from last sheet TE at BTR transfer to Xerographic cycle out starts. Mode 6 Envelopes | Range = 0 to 10000ms | 45ppm = 1000 55ppm = 1000 |
| 500-446 | OffsetCentreTray- InitDelay | Delay before attempting to find home position after an initialisation request | Range = 0 to 5000ms | 45ppm = 500 55ppm = 500 |
| 500-447 | OffsetFaultTime | Max time offset motor can run before a fault is declared | Range = 0 to 500ms | 45ppm = 150 55ppm = 150 |
| 500-448 | HCFT3ExitToExit NipTime | When the HCF needs to purge Tray 3 this is the time to turn the feed on to ensure the LE is in the HCF exit nips. | Range = 0 to 1000ms | 45ppm = 60 55ppm = 60 |
| 500-449 | FeedNipClearTim e2 | When the HCF is in purge mode this is the time that the retard will run when the feed sensor goes clear to ensure the sheet is out of the feed nip | Range = 0 to 4000ms | 45ppm = 400 55ppm = 400 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|--|--------------------------------------|
| 500-450 | HCFT3ExitToExit RetardTime | When the HCF needs to purge Tray 3 this is the time, following a feed assist | Range = 0 to 1000ms | 45ppm = 30 55ppm = 30 |
| 500-451 | MSIPaperTE_2_ Steps | The number of steps to run to TE at the MSI Feed Roll. | Range = 0 to 4000 Steps | 45ppm = 680 55ppm = 680 |
| 500-452 | MSIFeedSe- quence | Used to switch between MSI control types. | 0 = Feed roll continues until the TE of the sheet leaves the MSI. 1 = Feed roll off when cam home. | 45ppm = 0 55ppm = 0 |
| 500-453 | EnablePaper- lessTracking | Enable paperless mode | 0 = Normal opera- tion. 1 = Paperless mode. | 45ppm = 0 55ppm = 0 |
| 500-454 | OffsetRunCur- rentDelay | Centre tray offset Run cur- rent delay to establish run current. | Range = 0 to 600ms | 45ppm = 100 55ppm = 100 |
| 500-455 | OffsetTransition- DelaySteps | Centre tray delay from off- set sensor made. | Range = 0 to 100ms | 45ppm = 10 55ppm = 10 |
| 500-456 | OffsetDirection- ChangeDelay- Time | Centre tray delay before direction change. | Range = 0 to 200ms | 45ppm = 30 55ppm = 30 |
| 500-457 | Tray3EncoderFitt ed | Tray 3 Encoder Fitted. Default is NOT Fitted. | Range 0 = Not Fitted 1 = Encoder Fitted | 45ppm = 0 55ppm = 0 |
| 500-458 | Tray3MediaLevel TimeOffset | Tray 3 Media Level Time Offset | Range = 0 to 100000ms | 45ppm = 18379 55ppm = 18379 |
| 500-459 | Tray3MediaLevel TimeDivider | Tray 3 Media Level Time Divider | Range = 0 to 100000ms | 45ppm = 15262 55ppm = 15262 |
| 500-460 | Tray3MediaLevel MaxBumps | Tray 3 Media Level Max Bumps | Range = 0 to 1000ms | 45ppm = 246 55ppm = 246 |
| 500-461 | Tray3MediaLevel LiftTime | Tray 3 Media Level Lift Time | 500000ms | 45ppm = 0 55ppm = 0 |
| 500-464 | Tray4MediaLevel TimeOffset | Tray 4 Media Level Time Offset | Range = 0 to 100000ms | 45ppm = 25210 55ppm = 25210 |
| 500-465 | Tray4MediaLevel TimeDivider | Tray 4 Media Level Time Divider | Range = 0 to 100000ms | 45ppm = 21043 55ppm = 21043 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---|--|--------------------------------------|
| 500-469 | AsubTLastValue | AsubTLastValue | Range = 0 to 15000 %x100 | 45ppm = 10000 55ppm = 10000 |
| 500-470 | AsubTInitialValue | AsubTInitialValue | Range = 0 to 15000 %x100 | 45ppm = 10000 55ppm = 10000 |
| 500-471 | AsubT- TimeDevSwitche dOff | AsubTTimeDevSwitchedOff | Range = 0 to 2E+09 Time stamp snap shot in sec- onds | 45ppm = 0 55ppm = 0 |
| 500-472 | AsubT- TimeDevSwitche- dOn | AsubTTimeDevSwitchedOn | Range = 0 to 2E+09 Time stamp snap shot in sec- onds | 45ppm = 0 55ppm = 0 |
| 500-473 | AsubTTimeOffCo- eff | AsubTTimeOffCoeff | Range = 1 to 200000 seconds | 45ppm = 60000 55ppm = 60000 |
| 500-474 | AsubTTimeOn- Coeff | AsubTTimeOnCoeff | Range = 1 to 1000 seconds | 45ppm = 240 55ppm = 240 |
| 500-475 | Spare916 | Spare916 | Range = 0 to 100000 | 45ppm = 0 55ppm = 0 |
| 500-476 | AsubTImagesBe- tweenSamples | AsubTImagesBetween- Samples | Range = 1 to 1000 cycles | 45ppm = 10 55ppm = 10 |
| 500-477 | Spare918 | Spare918 | Range = 1 to 100000 | 45ppm = 10 55ppm = 10 |
| 500-478 | T4TARRetrySteps | Number of steps of the Tray4 Feed motor before a retry is attempted when feeding from the Tray4 Feed Sensor to the TAR4 Sensor Sensor. | Range = 0 to 6000 Steps | 45ppm = 500 55ppm = 500 |
| 500-479 | HCFToTAR2Retry Steps | Number of steps of the HCF TAR motor before a retry is attempted when feeding from the HCF Wait Point to TAR2 Sensor. | Range = 0 to 2000 Steps | 45ppm = 350 55ppm = 350 |
| 500-480 | NvmOneImage- CycleInCounter | Counter is incremented every time every time an image is printed after cycle in. | Range = 0 to 1000 Number of single images printed within a single cycle in webent. | 45ppm = 0 55ppm = 0 |

Table 1 IOT NVM ID 500-001 to 500-903

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|---|---|------------------------------------|
| 500-481 | NvmExtraCy- cleinThreshold | When NvmOneImageCy- cleInCounter is greater than this threshold then the machine is kept cycled in for an extra period of time to allwo a TC reading to occur. | Range = 0 to 250 Threshold in image counts | 45ppm = 50 55ppm = 50 |
| 500-482 | tensionTime | Defined the extra period of time keep the machine cycled in so that a TC reading can be made. | Range = 0 to 25 | 45ppm = 5 55ppm = 5 |
| 500-483 | PowerOnPurge- Disable | Dissable Power on Purge routine. | 0 = Allow Purge 1 = Disable Purge | 45ppm = 0 55ppm = 0 |
| 500-484 | PostJamPurge- Disable | Dissable End of Jam Purge routine. | 0 = Allow Purge 1 = Disable Purge | 45ppm = 0 55ppm = 0 |
| 500-517 | MSICamTarget- Time | MSI Cam Initialise Target time. Error to Target >10% switch TARMSI_MotorRatioSelect | Range = 0 to 4000 Steps | 45ppm =800 55ppm = 800 |
| 500-518 | TARMSI_MotorR atioSelect | TAR MSI motor ratio selection. (All related NVm's end with "_1") | 0=21T 1=14T on TAR/Bypass tray motor. | 45ppm = 0 55ppm = 0 |
| 500-519 | TARMSI_MotorR atioDetect | TAR MSI motor ratio detection. (Has the TAR MSI gear detection been run) | 0 = Detection mechanism has not been run. 1 = Detection mechanism has been run. | 45ppm = 0 55ppm = 0 |
| 500-520 | T1maxMediaLeve IElevateSteps | Maximum number of encoder events that can be received while elevating PFM Tray 1 | Range = 0 to 500 counts: number of encoder events | 45ppm = 400 55ppm = 400 |
| 500-521 | T2maxMediaLeve IElevateSteps | encoder events that can be received while elevating PFM Tray 2 | Range = 0 to 500 counts: number of encoder events | 45ppm = 400 55ppm = 400 |
| 500-522 | PPath_ProcessS peed_P1 | To store basic paper path process speed instead of hard coding it. | Range = 0 to 500mm/s | 45ppm = 257 55ppm = 257 |
| 500-902 | kAdditionM2Time | MSI Pitch, Addition to MSI Simplex Pitch Mode 2 | Range = 0 to 6000 | 45ppm = 2510 55ppm = 2510 |
| 500-903 | MSISimpPitchTic kAdditionM3Time | MSI Pitch, Addition to MSI Simplex Pitch Mode 3 | Range = 0 to 6000 | 45ppm = 2770 55ppm = 2770 |

Table 2 IOT NVM ID 501-160 to 501-387

| | | DIE Z IOT NVIVI ID 501-160 K | | 1 |
|---------|-----------------------------|---|---------------------------|------------------------------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 501-160 | BCR_DC_ON_Cy cleIn_P1 | Bias Charge Roll DC turned on Cycle In | Range = 0 to 5000ms | 45ppm = 160 55ppm = 160 |
| 501-161 | BCR_AC_ON_Cy cleIn_P1 | Bias Charge Roll AC turned on Cycle In. | Range = 0 to 5000ms | 45ppm = 160 55ppm = 160 |
| 501-162 | XeroReadyTime_ P1 | Minimum time from Xero- graphics start cycle in to Xerographics ready | Range = 0 to 5000ms | 45ppm = 930 55ppm = 930 |
| 501-163 | DevBiasDC_ON_ CycleIn_P1 | Dev Bias DC turned on Cycle In. | Range = 0 to 5000ms | 45ppm = 295 55ppm = 295 |
| 501-164 | BTReverseBiasC ycleIn_P1 | BTR Reverse Bias turned on Cycle In. | Range = 0 to 5000ms | 45ppm = 50 55ppm = 50 |
| 501-165 | DevBiasAC_ON_ CycleIn | Dev Bias AC turned on Cycle In. | Range = 0 to 5000ms | 45ppm = 395 55ppm = 395 |
| 501-166 | DevBiasAC_OFF | Dev Bias AC turned OFF Cycle out. | Range = 0 to 5000ms | 45ppm = 530 55ppm = 530 |
| 501-167 | BTRFwdBiasRun _P1 | BTR Forward Bias turned during Run. | Range = 0 to 5000ms | 45ppm = 224 55ppm = 224 |
| 501-168 | BTRRevBiasRun _P1 | BTR Forward to Reverse Bias during Run | Range = -5000 to 5000ms | 45ppm = -4 55ppm = -4 |
| 501-169 | BTRBiasOFFCyc Out_P1 | BTR Bias turned Off cycle out. | Range = 0 to 5000ms | 45ppm = 1101 55ppm = 1101 |
| 501-170 | DevBiasDC_OFF _P1 | Dev Bias DC turned OFF Cycle out. | Range = 0 to 5000ms | 45ppm = 630 55ppm = 630 |
| 501-171 | CartridgeMotCycl n_P1 | Cartridge motor turned on cycle in. | Range = 0 to 5000ms | 45ppm = 0 55ppm = 0 |
| 501-172 | CartridgeMotCyc Out_P1 | Cartridge Motor turned off cycle out. | Range = 0 to 5000ms | 45ppm = 1386 55ppm = 1386 |
| 501-173 | FuserExitMotCyc Out_P1 | Fuser Exit Motor Turned OFF Cycle out. | Range = 0 to 5000ms | 45ppm = 1163 55ppm = 1163 |
| 501-174 | TcDispTotal | TcDispTotal | Range = -32768 to 32767ms | 45ppm = 0 55ppm = 0 |
| 501-175 | TcSnrFailCount | TcSnrFailCount | Range = 0 to 65535 | 45ppm = 0 55ppm = 0 |
| 501-176 | TcLowCount | TcLowCount | Range = 0 to 65535 | 45ppm = 0 55ppm = 0 |
| 501-177 | TcHighCount | TcHighCount | Range = 0 to 65535 | 45ppm = 0 55ppm = 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------|------------------------------|---|--|
| 501-178 | TcLowCydnCount | TcLowCydnCount | Range = 0 to 255 | 45ppm = 0 55ppm = 0 |
| 501-179 | TcHighCydn- Count | TcHighCydnCount | Range = 0 to 255 | 45ppm = 0 55ppm = 0 |
| 501-183 | PxlCumTnrAge | PxlCumTnrAge | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-184 | DispCumTnrAge | DispCumTnrAge | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-185 | TcPrevTnrAge | TcPrevTnrAge | Range = 0 to 255 | 45ppm = 82 55ppm = 82 |
| 501-186 | Pxl | Pixel count from Mutara FPGA | Range = 0 to 2784 | 45ppm = 174 55ppm = 174 |
| 501-187 | TcDispSw | TcDispSw | Range = 0 to 6 | 45ppm = 1 55ppm = 1 |
| 501-188 | TcDispMaxOn- Time | TcDispMaxOnTime | Range = 0 to 100000000ms | 45ppm = 500 55ppm = 500 |
| 501-189 | TcDispMinOff- Time | TcDispMinOffTime | Range = 0 to 1000000000ms | 45ppm = 10 55ppm = 10 |
| 501-190 | TcDispKaw | TcDispKaw | Range = - 1000000000 to 1000000000 | 45ppm = 1000 55ppm = 1000 |
| 501-191 | TcDispTotalLI | TcDispTotalLI | Range = - 1000000000 to 100000000ms | 45ppm = - 3000 55ppm = - 3000 |
| 501-192 | TcDispTotalUI | TcDispTotalUI | Range = - 1000000000 to 100000000ms | 45ppm = 3000 55ppm = 3000 |
| 501-194 | TcSnrRdIntvPS | TcSnrRdIntvPS | Range = 0 to 100000000ms | 45ppm = 10 55ppm = 10 |
| 501-195 | TcOftPS | TcOftPS | Range = - 1000000000 to 1000000000 | 45ppm = 0 55ppm = 0 |
| 501-196 | PxlTnrIndSw | PxlTnrlndSw | Range = 0 to 1000000000 | 45ppm = 0 55ppm = 0 |
| 501-199 | NotUsed199 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-200 | NotUsed200 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-201 | NotUsed201 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-202 | NotUsed202 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|--|-----------------------------|--|
| 501-203 | TcSnrDispPeriod | TcSnrDispPeriod | Range = 0 to 100000000ms | 45ppm = 5000 55ppm = 5000 |
| 501-204 | TcSnrRiseTime | TcSnrRiseTime | Range = 0 to 65535ms | 45ppm = 1500 55ppm = 1500 |
| 501-205 | TcSnrPoNoRd- Time | TcSnrPoNoRdTime | Range = 0 to 65535ms | 45ppm = 1500 55ppm = 1500 |
| 501-206 | TcSnrTarget | TcSnrTarget | Range = 0 to 1023 | 45ppm = 291 55ppm = 291 |
| 501-207 | TcDeadCountMax | TcDeadCountMax: Used to determine the number of TC reads required at AC recov- ery entrance | Range = 0 to 255 | 45ppm = 3 55ppm = 3 |
| 501-208 | TcDeadCycleTh- reshold | TcDeadCycleThreshold | Range = 0 to 255 | 45ppm = 6 55ppm = 6 |
| 501-209 | TcAggressiveG- ainThreshold | TcAggressiveGainThresh- old | Range = 0 to 1023 | 45ppm = 3 55ppm = 3 |
| 501-210 | TcKi | TcKi | Range = 0 to 65535 | 45ppm = 150 55ppm = 150 |
| 501-211 | TcSnrCPuckCal | TcSnrCPuckCal | Range = 0 to 65535 | 45ppm = 30 55ppm = 30 |
| 501-212 | TcAggressiveKp | TcAggressiveKp | Range = 0 to 65535 | 45ppm = 200 55ppm = 200 |
| 501-213 | TcAggressiveKi | TcAggressiveKi | Range = 0 to 65535 | 45ppm = 60 55ppm = 60 |
| 501-214 | TcDispenseUp- perLimit | TcDispenseUpperLimit | Range = -32768 to 32768ms | 45ppm = 2000 55ppm = 2000 |
| 501-215 | TcDispenseLow- erLimit | TcDispenseLowerLimit | Range = -32768 to 32768ms | 45ppm = - 2000 55ppm = - 2000 |
| 501-216 | TcSnrRdNum | TcSnrRdNum | Range = 0 to 255 | 45ppm = 100 55ppm = 100 |
| 501-217 | TcSnrRngMin | TcSnrRngMin | Range = 0 to 1023 | 45ppm = 20 55ppm = 20 |
| 501-218 | TcNgCountMax | TcNgCountMax | Range = 0 to 255 | 45ppm = 5 55ppm = 5 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|--------------------------|------------------------------|------------------------------------|
| 501-219 | TcDiscardRdNum | TcDiscardRdNum | Range = 0 to 255 | 45ppm = 5 55ppm = 5 |
| 501-220 | TcUseRdNum | TcUseRdNum | Range = 0 to 255 | 45ppm = 10 55ppm = 10 |
| 501-221 | TcSnrLl | TcSnrLl | Range = 0 to 1023 | 45ppm = 100 55ppm = 100 |
| 501-222 | TcSnrUl | TcSnrUl | Range = 0 to 1023 | 45ppm = 1000 55ppm = 1000 |
| 501-223 | TcFailCydnEn | TcFailCydnEn | 0 = Disabled, 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 501-224 | NoGoodMax | NoGoodMax | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-225 | TcLowCdOffset | TcLowCdOffset | Range = -100000 to 100000 | 45ppm = 0 55ppm = 0 |
| 501-226 | TcHighCdOffset | TcHighCdOffset | Range = -100000 to 100000 | 45ppm = 0 55ppm = 0 |
| 501-227 | UpperLimitat- LowTc | UpperLimitatLowTc | Range = -100000 to 100000 | 45ppm = 390 55ppm = 390 |
| 501-228 | LowerLimi- tatHighTc | LowerLimitatHighTc | Range = -100000 to 100000 | 45ppm = 255 55ppm = 255 |
| 501-229 | TcLowCdEnabled | TcLowCdEnabled | 0 = Disabled, 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 501-230 | | TcHighCdEnabled | 0 = Disabled, 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 501-231 | lodTimePag- eEndToSensorOn | IodTimePageEndToSensorOn | Range = 0 to 1000ms | 45ppm = 138 55ppm = 138 |
| 501-232 | IodSnrSettleTime | IodSnrSettleTime | Range = 0 to 1000ms | 45ppm = 200 55ppm = 200 |
| 501-233 | IodSnrRdNum | IodSnrRdNum | Range = 0 to 100 | 45ppm = 18 55ppm = 18 |
| 501-234 | IodNgCountMax | IodNgCountMax | Range = 0 to 100 | 45ppm = 20 55ppm = 20 |
| 501-235 | IodDiscardRd- Num | IodDiscardRdNum | Range = 0 to 100 | 45ppm = 2 55ppm = 2 |
| 501-236 | IodUseRdNum | IodUseRdNum | Range = 0 to 100 | 45ppm = 10 55ppm = 10 |
| 501-237 | IodSnrLI | IodSnrLl | Range = 0 to 1000 | 45ppm = 50 55ppm = 50 |
| 501-238 | IodSnrUI | IodSnrUI | Range = 0 to 2000 | 45ppm = 1000 55ppm = 1000 |

| | Table 2 TOT NVM ID 301-160 to 301-387 | | | | |
|---------|---------------------------------------|-------------------------|------------------------------|------------------------------------|--|
| NVM ID | NVM Name | NVM Description | Settings | Default | |
| 501-239 | IodSnrRdIntv | IodSnrRdIntv | Range = 0 to 100ms | 45ppm = 5 55ppm = 5 | |
| 501-240 | IodSnrFailCount | IodSnrFailCount | Range = 0 to 10000 | 45ppm = 0 55ppm = 0 | |
| 501-242 | IodRoutineEnable | IodRoutineEnable | Range = 0 to 1 | 45ppm = 0 55ppm = 0 | |
| 501-243 | IodPatchesToAv- erage | IodPatchesToAverage | Range = 0 to 10 | 45ppm = 5 55ppm = 5 | |
| 501-244 | IodFilteredRead- ing | IodFilteredReading | Range = 0 to 2000 | 45ppm = 0 55ppm = 0 | |
| 501-245 | IodTimePage- SyncToSensor | IodTimePageSyncToSensor | Range = 0 to 1000ms | 45ppm = 118 55ppm = 118 | |
| 501-246 | Power_BcrAC_C urrent | Power_BcrAC_Current | Range = 1000 to 3000 | 45ppm = 1820 55ppm = 1820 | |
| 501-247 | Power_BcrAC_Fr eq | Power_BcrAC_Freq | Range = 1000 to 3000Hz | 45ppm = 1510 55ppm = 1510 | |
| 501-248 | Power_BcrDC | Power_BcrDC | Range = 200 to 1000V | 45ppm = 670 55ppm = 670 | |
| 501-249 | Power_DevBiasD C | Power_DevBiasDC | Range = 300 to 700V | 45ppm = 552 55ppm = 552 | |
| 501-250 | Power_DevBiasA C | Power_DevBiasAC | Range = 400 to 1100V | 45ppm = 500 55ppm = 500 | |
| 501-251 | Power_DevBiasA C_Freq | Power_DevBiasAC_Freq | Range = 5000 to 15000V | 45ppm = 8300 55ppm = 8300 | |
| 501-252 | Power_BtrCurrent | Power_BtrCurrent | Range = 50 to 500uA | 45ppm = 240 55ppm = 240 | |
| 501-253 | Power_BtrCurrent LE | Power_BtrCurrentLE | Range = 50 to 500uA | 45ppm = 240 55ppm = 240 | |
| 501-254 | Power_BtrCurrent TE | Power_BtrCurrentTE | Range = 50 to 500uA | 45ppm = 180 55ppm = 180 | |
| 501-255 | BtrLeadEdgeT- ime | BtrLeadEdgeTime | Range = 0 to 1000ms | 45ppm = 100 55ppm = 100 | |
| 501-256 | BtrTrailEdgeTime | BtrTrailEdgeTime | Range = 0 to 1000ms | 45ppm = 60 55ppm = 60 | |
| 501-257 | TcSnrCalAdjEn | TcSnrCalAdjEn | 0 = Enabled, 1 = Disabled | 45ppm = 1 55ppm = 1 | |
| 501-258 | TcSnrAPuckCal | TcSnrAPuckCal | Range = 0 to 100000000 | 45ppm = 464 55ppm = 464 | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|---|---------------------------|------------------------------------|
| 501-259 | TcSnrBPuckCal | TcSnrBPuckCal | Range = 0 to 100000000 | 45ppm = 368 55ppm = 368 |
| 501-260 | TcSnrCPuckCal | TcSnrCPuckCal | Range = 0 to 100000000 | 45ppm = 271 55ppm = 271 |
| 501-261 | NotUsed261 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 501-262 | TcSnrAPuckNom | TcSnrAPuckNom | Range = 0 to 100000000 | 45ppm = 464 55ppm = 464 |
| 501-263 | TcSnrBPuckNom | TcSnrBPuckNom | Range = 0 to 100000000 | 45ppm = 368 55ppm = 368 |
| 501-264 | TcSnrCPuckNom | TcSnrCPuckNom | Range = 0 to 100000000 | 45ppm = 271 55ppm = 271 |
| 501-265 | TcAPuckCalBit- Incmt | TcAPuckCalBitIncmt | Range = 0 to 100000000 | 45ppm = 232 55ppm = 232 |
| 501-266 | TcBPuckCalBit- Incmt | TcBPuckCalBitIncmt | Range = 0 to 100000000 | 45ppm = 155 55ppm = 155 |
| 501-267 | TcCPuckCalBit- Incmt | TcCPuckCalBitIncmt | Range = 0 to 100000000 | 45ppm = 232 55ppm = 232 |
| 501-269 | BTRFwdBiasCyc Out_P1 | Time from cycle out initiated (Print Bias complete last sheet) to the BTR going to Forward Bias cycle out. | Range = 0 to 5000ms | 45ppm = 367 55ppm = 367 |
| 501-270 | BTRFwdBiasOffC ycOut_P1 | Time from cycle out initiated (Print Bias complete last sheet) to the BTR going to Reverse Bias cycle out. | Range = 0 to 5000ms | 45ppm = 734 55ppm = 734 |
| 501-271 | BCRDCOFF_P1 | Time from cycle out initiated (Print Bias complete last sheet) BCR DC turned OFF | Range = 0 to 5000ms | 45ppm = 476 55ppm = 476 |
| 501-272 | BCRACOFF_P1 | Time from cycle out initiated (Print Bias complete last sheet) BCR AC turned OFF | Range = 0 to 5000ms | 45ppm = 1386 55ppm = 1386 |
| 501-273 | CartridgeONPuls e_P1 | Time from cycle out initiated (Print Bias complete last sheet) Start pulse of cartrideg motor. | Range = 0 to 5000ms | 45ppm = 1994 55ppm = 1994 |
| 501-274 | CartridgeOffPulse _P1 | Time from cycle out initiated (Print Bias complete last sheet) Complete Pulse of cartridge motor. | Range = 0 to 5000ms | 45ppm = 2044 55ppm = 2044 |
| 501-275 | EnvSnrSettle- Time | Environmental sensor set- tle time (for RH readings) | Range = 0 to 300 seconds | 45ppm = 60 55ppm = 60 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|--|----------------------------|--|
| 501-276 | TmpSnrRdIntv | Temperature Sensor sam- pling interval | Range = 0 to 30000ms | 45ppm = 1000 55ppm = 1000 |
| 501-277 | TmpSnrRdNum | Temperature Sensor no. of samples averaged | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-278 | RhSnrRdIntv | Humidity Sensor sampling interval | Range = 0 to 30000ms | 45ppm = 1000 55ppm = 1000 |
| 501-279 | RhSnrRdNum | Humidity Sensor no. of samples averaged | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-280 | RhAverage | Current averaged Relative Humidity reading | Range = 0 to 100%RH | 45ppm = 30 55ppm = 30 |
| 501-281 | TmpAverage | Current averaged Temperature reading | Range = 0 to 100 Deg. C | 45ppm = 20 55ppm = 20 |
| 501-282 | TmpSnrLl | Temperature Sensor Lower Limit | Range = 0 to 100 Deg. C | 45ppm = 5 55ppm = 5 |
| 501-283 | TmpSnrUl | Temperature Sensor Upper Limit | Range = 0 to 100 Deg. C | 45ppm = 50 55ppm = 50 |
| 501-284 | RhSnrLl | Humidity Sensor Lower Limit | Range = 0 to 100%RH | 45ppm = 1 55ppm = 1 |
| 501-285 | RhSnrUl | Humidity Sensor Upper Limit | Range = 0 to 100%RH | 45ppm = 95 55ppm = 95 |
| 501-286 | NgTmpSnrFail- CountMax | No. of temperature sensor readings out of limits threshold | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-287 | NgRhSnrFail- CountMax | No. of humidity sensor readings out of limits threshold | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-288 | TmpSnrFailCount | Temperature sensor fault count | Range = 0 to 10000 | 45ppm = 0 55ppm = 0 |
| 501-289 | RhSnrFailCount | Humidity sensor fault count | Range = 0 to 10000 | 45ppm = 0 55ppm = 0 |
| 501-290 | TmpSnrAvgIntv | Temperature sensor averaging interval | Range = 0 to 600 seconds | 45ppm = 10 55ppm = 10 |
| 501-291 | RhSnrAvgIntv | Humidity sensor averaging interval | Range = 0 to 600 seconds | 45ppm = 10 55ppm = 10 |
| | PhotoDevUnitAge | Spare | Range = 0 to 100000000 | 45ppm = 200000 55ppm = 200000 |
| 501-293 | LPH_Exposure | LPH_Exposure | Range = 150 to 600 | 45ppm = 379 55ppm = 379 |

Table 2 IOT NVM ID 501-160 to 501-387

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|--|---|------------------------------------|
| 501-294 | Power_BtrCurrent Clean | Power_BtrCurrentClean | Range = 50 to 500uA | 45ppm = 180 55ppm = 180 |
| 501-295 | DensityCtrlMode | Density control mode | 0 = Fixed, 1 = Tier 1 | 45ppm = 1 55ppm = 1 |
| 501-296 | TCCtrlMode | Toner Concentration control mode | 0 = Fixed, 1 = Tier 1 | 45ppm = 1 55ppm = 1 |
| 501-297 | Power_BcrAC_Fi xed | Power_BcrAC_Fixed | Range = 1000 to 3000uA | 45ppm = 1820 55ppm = 1820 |
| 501-298 | Power_BcrDC_Fi xed | Power_BcrDC_Fixed | Range = 200 to 1000V | 45ppm = 670 55ppm = 670 |
| 501-299 | Power_DevBiasD C_Fixed | Power_DevBiasDC_Fixed | Range = 300 to 700V | 45ppm = 552 55ppm = 552 |
| 501-300 | LPH_Exposure_F ixed | LPH_Exposure_Fixed | Range = 150 to 600 | 45ppm = 346 55ppm = 346 |
| 501-301 | TcSnrTarget_Fixe d | TcSnrTarget_Fixed | Range = 0 to 1023 | 45ppm = 291 55ppm = 291 |
| 501-302 | TransferCtrlMode | Transfer control mode | 0 = Fixed, 1 = Tier 1 | 45ppm = 1 55ppm = 1 |
| 501-303 | Power_BtrCurrent _Fixed | Power_BtrCurrent_Fixed | Range = 50 to 500uA | 45ppm = 240 55ppm = 240 |
| 501-311 | TcEmptyDe- tectCntMax | TcEmptyDetectCntMax | Range = 0 to 1000 | 45ppm = 5 55ppm = 5 |
| 501-312 | TcEmptySw | Switch between pixel and TC control for the empty bottle calculations. | 0 = Empty declara- tion from pixel count, 1 = Empty declaration from TC | 45ppm = 0 55ppm = 0 |
| 501-313 | Power_BtrCurrent LE_Fixed | Power_BtrCurrentLE_Fixed | Range = 50 to 500uA | 45ppm = 240 55ppm = 240 |
| 501-314 | Power_BtrCurrent TE_Fixed | Power_BtrCurrentTE_Fixed | Range = 50 to 500uA | 45ppm = 180 55ppm = 180 |
| 501-315 | Power_BtrCurrent Clean_Fixed | Power_BtrCurrentClean_Fi xed | Range = 50 to 500uA | 45ppm = 180 55ppm = 180 |
| 501-316 | ACGain | Area Coverage Gain | Range = 0 to 200 | 45ppm = 100 55ppm = 100 |
| 501-317 | ACDecayCoeff | Area Coverage Decay coefficient | Range = 0 to 2000 | 45ppm = 120 55ppm = 120 |
| 501-318 | ACMaxPixelsTo- CoverDrum | Area Coverage Max Pixels to cover drum | Range = 0 to 20000 | 45ppm = 1648 55ppm = 1648 |

Table 2 IOT NVM ID 501-160 to 501-387

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|--|----------------------------|--|
| 501-319 | ACRollingValue | Area Coverage rolling value | 200000 | 45ppm = 5000 55ppm = 5000 |
| 501-320 | cles | Accumulated Drum Cycles Per Image samples | Range = 0 to 5000 | 45ppm = 0 55ppm = 0 |
| 501-321 | ACAccCycledIn- Pixels | Accumulated ACPixel Count Per Image samples in Pixels | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 501-322 | DrumCy- cleCounterSave- Freq | Area Coverage Drum Cycle counter save frequency | Range = 1 to 10000 | 45ppm = 100 55ppm = 100 |
| 501-323 | TcSnrReadPeriod | Area Coverage Toner Con- centration sensor read period | Range = 0 to 60000 | 45ppm = 2500 55ppm = 2500 |
| 501-324 | AcAccImages | Area Coverage accumu- lated images | Range = 0 to 2000 | 45ppm = 0 55ppm = 0 |
| 501-325 | AcImageSamples | Area Coverage images sampled | Range = 1 to 2000 | 45ppm = 30 55ppm = 30 |
| 501-326 | ACRollingValue- MaxLimit | Max limited value of Area Coverage calculated from the algorithm | Range = 0 to 200000 | 45ppm = 100000 55ppm = 100000 |
| 501-327 | ACRollingVal- ueMinLimit | Min limited value of Area Coverage calculated from the algorithm | Range = 0 to 200000 | 45ppm = 0 55ppm = 0 |
| 501-328 | NvmXferBigSub | Xerographic LUT cross-pro- cess width upper threshold XferBigSub | Range = 160 to 420 | 45ppm = 216 55ppm = 216 |
| 501-329 | NvmXferSmall- Sub | Xerographic LUT cross-pro- cess width lower threshold XferSmallSub | Range = 100 to 160 | 45ppm = 140 55ppm = 140 |
| 501-330 | NvmXferLowRh | Xerographic LUT transfer lower humidity threshold XferLowRh (approx 20%) | Range = 0 to 100 | 45ppm = 14 55ppm = 14 |
| 501-331 | NvmXferHighRH | Xerographic LUT transfer upper humidity threshold XferHighRh (approx 75%) | Range = 0 to 100 | 45ppm = 54 55ppm = 54 |
| 501-332 | dowTime | Time period to gather the pixel information over to calculate the TotalMovingPx-IAcc | Range = 1 to 100000ms | 45ppm = 10000 55ppm = 10000 |
| 501-333 | HighAcTotalMov- ingPxlAcc | The accumulated pixel count over HighAcPxlWindowTime. | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|---|-------------------------------|--------------------------------------|
| 501-334 | HighAcTcPxlTh | The threshold for accumulated pixels over the time HighAcPxIWindowTime which will cause entry to HighAcRecovery | Range = 1392 to 2147483647 | 45ppm = 3480 55ppm = 3480 |
| 501-335 | HighAcTcPxITh- CntMax | The number of consecutive readings before entry and exit from High AC recovery mode. | Range = 0 to 100 | 45ppm = 5 55ppm = 5 |
| 501-336 | HighAcModeTim- eout | Timeout for High AC mode. Timer started when dead cycling begins | Range = 0 to 300000ms | 45ppm = 90000 55ppm = 90000 |
| 501-337 | DTS_Enable | Determines whether DTS is enabled or not | Range = 0 to 1 | 45ppm = 1 55ppm = 1 |
| 501-338 | HighAcLast- TcDispSw | Stores previous TC dispense mode at entry to high AC mode | Range = 0 to 6 | 45ppm = 1 55ppm = 1 |
| 501-339 | BtrCycleInClean- Start | Following a jam, on cycle in 1 cycle of the BTR is required for cleaning. This is the time delay to start the clean cycle. | Range = 0 to 5000ms | 45ppm = 1400 55ppm = 1400 |
| 501-340 | BtrCleanDuration | Following a jam, on cycle in 1 cycle of the BTR is required for cleaning. This is the duration of the clean cycle minus the start time. | Range = 0 to 5000ms | 45ppm = 1900 55ppm = 1900 |
| 501-341 | XeroShutdown- TimeBtr | On a shutdown, time to turn off the BTR | Range = 0 to 5000ms | 45ppm = 0 55ppm = 0 |
| 501-342 | XeroShutdown- TimeCartMtr | On a shutdown, time to turn off the Cartridge Motor | Range = 0 to 5000ms | 45ppm = 155 55ppm = 155 |
| 501-343 | XeroShutdown- TimeBcrDC | On a shutdown, time to turn off the BCR DC | Range = 0 to 5000ms | 45ppm = 0 55ppm = 0 |
| 501-344 | XeroShutdown- TimeBcrAC | On a shutdown, time to turn off the BCR AC | Range = 0 to 5000ms | 45ppm = 0 55ppm = 0 |
| 501-345 | BtrCycleInClean- Flag | Following a shutdown on cycle in 1 cycle of the BTR is required for cleaning. This NVM determines whether the cleaning cycle should be run or not. | Range = 0 to 1 | 45ppm = 0 55ppm = 0 |
| 501-346 | XeroReadyTimeA fterShutdown_P1 | Minimum time from Xero- graphics start cycle in to the first transfer time following a shutdown condition | Range = 0 to 5000ms | 45ppm = 2900 55ppm = 2900 |

| | | DIE Z IOT NVM ID 501-160 to | | |
|---------|--------------------------------|---|---|--------------------------------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 501-347 | XeroShutdown- TimeDevBiasDC | On a shutdown, time to turn off the Dev Bias DC | Range = 0 to 5000ms | 45ppm = 155 55ppm = 155 |
| 501-348 | XeroShutdown- TimeDevBiasAC | On a shutdown, time to turn off the Dev Bias AC | Range = 0 to 5000ms | 45ppm = 155 55ppm = 155 |
| 501-349 | TcSnrReading | Filtered TC sensor reading (TcSnrRead) | Range = 0 to 1023 | 45ppm = 291 55ppm = 291 |
| 501-350 | BCR_DC_ON_CI ean_CycleIn | Prevents sheets being grabbed from user when loading sheets | Range = 0 to 5000ms | 45ppm = 10 55ppm = 10 |
| 501-351 | BCR_AC_ON_CI ean_CycleIn | In | Range = 0 to 5000ms | 45ppm = 10 55ppm = 10 |
| 501-352 | DevBiasDC_ON_ Clean_CycleIn | DevBiasDC_ON_Clean_Cy cleIn | Range = 0 to 5000ms | 45ppm = 0 55ppm = 0 |
| 501-353 | DevBiasAC_ON_ Clean_CycleIn | DevBiasAC_ON_Clean_Cy cleIn | Range = 0 to 5000ms | 45ppm = 395, 55ppm = 395 |
| 501-354 | PcReplacedX- eroDelayFlag | Following a change of print cartridge this flag is set to delay xerographic ready time to allow the developer longer time to stabilise after carrier/toner is first released. | 0 = No change of print cartridge detected, 1 = Print cartridge has been changed | 45ppm = 0 55ppm = 0 |
| 501-355 | PcReplacedXero ReadyTime_P1 | Following a change of print cartridge this is the minimum time from Xerographics start cycle in to Xerographics ready. | Range = 0 to 100000ms | 45ppm = 15000 55ppm = 15000 |
| 501-356 | Power_BcrAC_D uty | Duty cycle of the BCR AC waveform | Range = 0 to 100 | 45ppm = 50 55ppm = 50 |
| 501-357 | Power_DevBiasA C_Duty | Duty cycle of the Dev Bias AC waveform | Range = 0 to 100 | 45ppm = 50 55ppm = 50 |
| 501-358 | TnrBelowEmp- tyTh | Toner remaining hard stop threshold for instant end of life declaration | Range = -100 to 0 | 45ppm = -50 55ppm = -50 |
| 501-359 | SystemLockout- Fault | A system lockout fault requiring a service call has occurred. The Index of the IOT fault code is stored so that at power on the IOT can immediately re-raise the fault to prohibit marking. | 0 = No lockout fault, N = IOT fault code index number | 45ppm = 0 55ppm = 0 |
| 501-360 | | | | |
| 501-361 | TcDispOLMaxOn- Time | TC Dispense Open Loop Max OnTime | Range = 0 to 100000000ms | 45ppm = 500 55ppm = 500 |
| 501-362 | TcDispOLMinOff- Time | TC Dispense Open Loop Min OnTime | Range = 0 to 100000000ms | 45ppm = 10 55ppm = 10 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------------|--|
| 501-363 | PCOverTempUp- perLimit | Print cartridge over temperature upper threshold. | Range = 0 to 100 Deg. C | 45ppm = 47 55ppm = 47 |
| 501-364 | PCOverTem- pLowerLimit | Print cartridge over temperature lower threshold. | Range = 0 to 100 Deg. C | 45ppm = 43 55ppm = 43 |
| 501-365 | PCCoolingTime- out | Timeout for Print Cartridge Cooling mode. | Range = 0 to 600000ms | 45ppm = 120000 55ppm = 120000 |
| 501-366 | TcStartEmptyDe- tectCnt | Toner cartridge start empty detect count | Range = 0 to 1000 | 45ppm = 0 55ppm = 0 |
| 501-367 | TcNearEmptyDe- tectCnt | Toner cartrdige near empty detect count | Range = 0 to 1000 | 45ppm = 0 55ppm = 0 |
| 501-368 | TcEmptyDe- tectCnt | Toner cartridge empty detect count | Range = 0 to 1000 | 45ppm = 0 55ppm = 0 |
| 501-369 | TcDeadCount- MaxExit | TcDeadCountMaxExit: Used to determine the num- ber of TC reads required at AC recovery exit | Range = 0 to 255 count | 45ppm = 1 55ppm = 1 |
| 501-370 | BottleReplaceTo- neUpEnable | BottleReplaceToneUpEn- able | 1 = Enable 0 = Disable | 45ppm = 1 55ppm = 1 |
| 501-377 | NvmTnrCalLow- erThreshold | If the toner runs out and the gauge is below this limit then the auto calibration factor will not be calculated. | Range = -40 to 0 | 45ppm = -20 55ppm = -20 |
| 501-378 | NvmTnrCalUp- perThreshold | If the toner runs out and the gauge is above this limit then the auto calibration factor will not be calculated | Range = 0 to 40 | 45ppm = 20 55ppm = 20 |
| 501-371 | PcStripRemoval- RequestPrints | The print threshold when, if a TC control error occurs, the user will be asked to check the print carridge removable strip has been removed. | Range = 0 to 2000 prints | 45ppm = 500 55ppm = 500 |
| 501-372 | NvmPc- StripRemovalRe- questAttempts | The number of times the user will be asked to check for Print Cartridge blue strip removal and toner concentration recovery attempted. | Range = 0 to 5 Retry attempts | 45ppm = 3 55ppm = 3 |
| 501-375 | NvmTnr- GaugeCalibra- tionFactor | Hold the calibration factor for the toner supplies gauge. | Range = 85 to 120 87% to 117% | 45ppm = 100 55ppm = 100 |
| 501-376 | NVMTnrCalFeed- backFactor | Governs the amount of toner gauge error that is fed back when Tnr = EOL to TnrGaugeCalibrationFactor. | Range = 1 to 5 | 45ppm = 2 55ppm = 2 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---|------------------------|----------------------------|
| 501-377 | NvmTnrCalLow- erThreshold | If the toner runs out and the gauge is below this limit then the auto calibration factor will not be calculated. | Range = -40 to 0 | 45ppm = -20 55ppm = -20 |
| 501-378 | NvmTnrCalUp- perThreshold | If the toner runs out and the gauge is above this limit then the auto calibration factor will not be calculated Original. | Range = 0 to 40 | 45ppm = 20 55ppm = 20 |
| | NvmTnrGauge- FactorLowerLimit | Minimum limit applied to the calculated toner gauge correction factor. | Range = 80 to 100 | 45ppm = 90 55ppm = 90 |
| 501-380 | NvmTnrGauge- FactorUpperLimit | NvmTnrGaugeFactorUp- perLimit | Range = 100 to 120 | 45ppm = 110 55ppm = 110 |
| 501-381 | Darken_Output_S lider_Value | Stores the "Darken Output" UI slider setting. Holds the last adjustment. Used to select which Exposure offset value to apply to the default LPH Exposure value (501-300). Selects Exposure Offset 1 to 5. NVM 501-382 to 386. Default is 1 (Zero offset). | Range = 1 to 20 | 45ppm = 1 55ppm = 1 |
| 501-382 | Exposure_Offset1 | When Darken Output slider is set to 1. | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 501-383 | Exposure_Offset2 | When Darken Output slider is set to 2. | Range = 0 to 100 | 45ppm = 15 55ppm = 15 |
| 501-384 | Exposure_Offset3 | When Darken Output slider is set to 3. Add +30 offset to LHP Exposure value (501-300). | Range = 0 to 100 | 45ppm = 30 55ppm = 30 |
| 501-385 | Exposure_Offset4 | When Darken Output slider is set to 4. Add +45 offset to LHP Exposure value (501-300). | Range = 0 to 100 | 45ppm = 45 55ppm = 45 |
| 501-386 | Exposure_Offset5 | When Darken Output slider is set to 5. Add +60 offset to LHP Exposure value (501-300). | Range = 0 to 100 | 45ppm = 60 55ppm = 60 |
| 501-387 | LPHExpFixedPlu- sOffset | Sum of LPH_Exposure_Fixed (501- 300) plus the selected offset value indicated by Darken_Output_Slider_Valu e (501-381). | Range = 150 to 1000 | 45ppm = 346 55ppm = 346 |

Table 3 IOT NVM ID 502-292 to 502-399

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|----------------------|-------------------------|------------------------------------|
| 502-292 | NvmFsrStand- byTemp | NvmFsrStandbyTemp | Range = 0 to 2100 | 45ppm = 600 55ppm = 600 |
| 502-293 | NvmFsrRunTemp | NvmFsrRunTemp | Range = 100 to 2100 | 45ppm = 1950 55ppm = 1950 |
| 502-294 | NvmFsrMaxTar- getTemp | NvmFsrMaxTargetTemp | Range = 1600 to 2600 | 45ppm = 2400 55ppm = 2400 |
| 502-295 | NvmFsrRange | NvmFsrRange | Range = 50 to 500 | 45ppm = 200 55ppm = 200 |
| 502-296 | NvmFsrMaxPow- erCapped | NvmFsrMaxPowerCapped | Range = 1 to 21 | 45ppm = 21 55ppm = 21 |
| 502-297 | NvmFsrKpMark- ing | NvmFsrKpMarking | Range = 0 to 1500 | 45ppm = 1300 55ppm = 1300 |
| 502-298 | NvmFsrKiMarking | NvmFsrKiMarking | Range = 0 to 100 | 45ppm = 10 55ppm = 10 |
| 502-299 | NvmFsrKdMark- ing | NvmFsrKdMarking | Range = 0 to 100 | 45ppm = 40 55ppm = 40 |
| 502-300 | NvmFsrKp2Marki ng | NvmFsrKp2Marking | Range = 0 to 1500 | 45ppm = 1300 55ppm = 1300 |
| 502-301 | NvmFsrKi2Markin g | NvmFsrKi2Marking | Range = 0 to 100 | 45ppm = 10 55ppm = 10 |
| 502-302 | ng | NvmFsrKd2Marking | Range = 0 to 100 | 45ppm = 40 55ppm = 40 |
| 502-303 | NvmFsrNVMNull2 49 | NvmFsrNVMNull249 | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 502-304 | NvmFsrlCalc1Off set | NvmFsrlCalc1Offset | Range = 0 to 80 | 45ppm = 20 55ppm = 20 |
| 502-305 | NvmFsrlCalc2Off set | NvmFsrlCalc2Offset | Range = 0 to 80 | 45ppm = 20 55ppm = 20 |
| 502-306 | NvmFsrlCalc3Off set | NvmFsrlCalc3Offset | Range = 0 to 80 | 45ppm = 20 55ppm = 20 |
| 502-307 | NvmFsrCrumVolt- age | NvmFsrCrumVoltage | Range = 0 to 100 | 45ppm = 40 55ppm = 40 |
| 502-308 | NvmFsrDCalc2Of fset | NvmFsrDCalc2Offset | Range = 0 to 100 | 45ppm = 40 55ppm = 40 |

| | | DIE 3 IOT NVW ID 502-292 to | 7 302-333 | 1 |
|---------|--|---|------------------------------|--|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 502-309 | NvmFsrDCalc3Of fset | NvmFsrDCalc3Offset | Range = 0 to 100 | 45ppm = 40 55ppm = 40 |
| 502-310 | NvmFsrPowerCal c1Offset | NvmFsrPowerCalc1Offset | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 502-311 | NvmFsrPowerCal c2Offset | NvmFsrPowerCalc2Offset | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 502-312 | NvmFsrPowerCal c3Offset | NvmFsrPowerCalc3Offset | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 502-313 | NvmFs- rDeltaBreech | NvmFsrDeltaBreech | Range = 0 to 500 | 45ppm = 250 55ppm = 250 |
| 502-314 | NvmFsrNVMNull2 60 | NvmFsrNVMNull260 | Range = 0 to 100 | 45ppm = 0 55ppm = 0 |
| 502-315 | NvmFsrWarmup- Timer | Fuser Warmup Check Time | Range = 10000 to 50000ms | 45ppm = 40000 55ppm = 40000 |
| 502-316 | NvmFsrStandby- Timer | NvmFsrStandbyTimer | Range = 20000 to 900000 | 45ppm = 900000 55ppm = 900000 |
| 502-317 | NvmFsrAutoRe- coveryTimer | NvmFsrAutoRecoveryTimer | Range = 1000 to 5000 | 45ppm = 3000 55ppm = 3000 |
| 502-318 | NvmFsrLamp- PidUpperLimit | NvmFsrLampPidUpperLimit | Range = 100000 to 1000000 | 45ppm = 1000000 55ppm = 1000000 |
| 502-319 | NvmCdiConso- leOut | NvmCdiConsoleOut | Range = 0 to 10 | 45ppm = 0 55ppm = 0 |
| 502-340 | NvmFsrKp3Marki ng | NvmFsrKp3Marking | Range = 0 to 1500 | 45ppm = 1000 55ppm = 1000 |
| 502-341 | NvmFsrKi3Markin g | Lamp3 Proportional Kp coefficient | Range = 0 to 20 | 45ppm = 10 55ppm = 10 |
| 502-342 | NvmFsrKd3Marki ng | Lamp3 Differential Kd coefficient | Range = 0 to 100 | 45ppm = 20 55ppm = 20 |
| 502-343 | NvmFsrRoller- RunOnTimeNo- tUsed | Period of time that the fuser rollers keep rotating after the fuser has been asked to stop. (Reduces temp over- shoot at cycle out) | Range = 0 to 5000ms | 45ppm = 1000 55ppm = 1000 |
| 502-344 | NotUsed447 | Not Used 447 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|--------------------------------|----------------------------|
| 502-345 | HeavyWeightMe- diaTempOffset | Fuser target temperature offset applied when Heavyweight media is fed. | Range = 0 to 15 Deg C | 45ppm = 10 55ppm = 10 |
| 502-346 | NvmDelayBefor- eLampsOff | Time delay when fuser lamp power should be removed after the last sheet in the queue has been fed. | Range = 0 to 3000ms | 45ppm = 500 55ppm = 500 |
| 502-347 | NvmSecondFu- serLampTurnOn- Delay | Time delay for turning on the second lamp when 2 fuser lamps are turned on at the same time | Range = 0 to 2550ms | 45ppm = 0 55ppm = 0 |
| 502-348 | NvmFuserLamp1 MinPowerCap | Minimum power cap for fuser lamp 1 | Range = 0 to 12 | 45ppm = 0 55ppm = 0 |
| 502-349 | NvmFuserLamp2 MinPowerCap | Minimum power cap for fuser lamp 2 | Range = 0 to 12 | 45ppm = 0 55ppm = 0 |
| 502-350 | NvmFuserLamp3 MinPowerCap | Minimum power cap for fuser lamp 3 | Range = 0 to 12 | 45ppm = 0 55ppm = 0 |
| 502-351 | NvmLVPSUFram- eRate | IOT to LVPSU Frame trans- mission rate | Range = 50 to 100ms | 45ppm = 100 55ppm = 100 |
| 502-352 | NvmFuserTher- mistorCheckTime | Fuser thermistor power on temp rise check - Time | Range = 0 to 15 seconds | 45ppm = 10 55ppm = 10 |
| 502-353 | NvmFuserTher- mistorCheckDe- grees | Fuser thermistor power on temp rise check - Temp | Range = 0 to 50 Deg. C | 45ppm = 10 55ppm = 10 |
| 502-354 | FuserSheetRe- leaseTemperature | During fuser warming up to run temperature, this is the temperature that the initial sheet will be released from the wait point | Range = 0 to 50 Deg. C x 10 | 45ppm = 10 55ppm = 10 |
| 502-355 | FuserPowerCap- pingEnable | Fuser lamp power capping | 0 = Disable, 1 = Enable | 45ppm = 1 55ppm = 1 |
| 502-356 | LVPSUVoltageEn umStandby110v | Default LVPS Voltage Enum used when LVPS does not return a voltage Enum for standby | Range = 0 to 255 | 45ppm = 136 55ppm = 136 |
| 502-357 | LVPSUVoltageEn umRun110v | Default LVPS Voltage Enum used when LVPS does not return a voltage Enum | Range = 0 to 255 | 45ppm = 130 55ppm = 130 |
| 502-358 | LVPSUVoltageEn umStandby230v | Default LVPS Voltage Enum used when LVPS does not return a voltage Enum | Range = 0 to 255 | 45ppm = 51 55ppm = 51 |
| 502-359 | LVPSUVoltageEn umRun230v | Default LVPS Voltage Enum used when LVPS does not return a voltage Enum | Range = 0 to 255 | 45ppm = 48 55ppm = 48 |
| 502-360 | SystemStand- byVA | LVPS System Standby VA Limit | Range = 0 to 500 | 45ppm = 125 55ppm = 125 |

| | | bie 5 10 1 14 Will 10 302-292 to | 1 | I |
|---------|-----------------|----------------------------------|-------------------|-------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 502-361 | SystemRunVA | LVPS System Run VA Limit | Range = 0 to 1000 | 45ppm = 410 |
| | | | | 55ppm = 410 |
| 502-362 | Lamp1MaxLimitV | Fuser Lamp1 Max VA Limit | Range = 0 to 1500 | 45ppm = 951 |
| | A | | | 55ppm = 951 |
| 502-363 | Lamp2MaxLimitV | Fuser Lamp2 Max VA Limit | Range = 0 to 1500 | 45ppm = 755 |
| | A | | | 55ppm = 755 |
| 502-364 | Lamp1MinLimitV | Fuser Lamp1 Min VA Limit | Range = 0 to 500 | 45ppm = 245 |
| | Α | | | 55ppm = 245 |
| 502-365 | Lamp2MinLimitV | Fuser Lamp2 Min VA Limit | Range = 0 to 500 | 45ppm = 195 |
| | Α | | | 55ppm = 195 |
| 502-366 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 100 |
| | ntagePL20 | centage conversion PL20 | | 55ppm = 100 |
| 502-367 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 95 |
| | ntagePL19 | centage conversion PL19 | | 55ppm = 95 |
| 502-368 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 92 |
| | ntagePL18 | centage conversion PL18 | | 55ppm = 92 |
| 502-369 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 87 |
| | ntagePL17 | centage conversion PL17 | | 55ppm = 87 |
| 502-370 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 83 |
| | ntagePL16 | centage conversion PL16 | | 55ppm = 83 |
| 502-371 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 80 |
| | ntagePL15 | centage conversion PL15 | | 55ppm = 80 |
| 502-372 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 75 |
| | ntagePL14 | centage conversion PL14 | | 55ppm = 75 |
| 502-373 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 68 |
| | ntagePL13 | centage conversion PL13 | | 55ppm = 68 |
| 502-374 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 66 |
| | ntagePL12 | centage conversion PL12 | | 55ppm = 66 |
| 502-375 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 62 |
| | ntagePL11 | centage conversion PL11 | | 55ppm = 62 |
| 502-376 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 57 |
| | ntagePL10 | centage conversion PL10 | | 55ppm = 57 |
| 502-377 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 53 |
| | ntagePL9 | centage conversion PL9 | | 55ppm = 53 |
| 502-378 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 50 |
| | ntagePL8 | centage conversion PL8 | | 55ppm = 50 |
| 502-379 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 46 |
| | ntagePL7 | centage conversion PL7 | | 55ppm = 46 |
| 502-380 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 43 |
| | ntagePL6 | centage conversion PL6 | | 55ppm = 43 |
| 502-381 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 37 |
| | ntagePL5 | centage conversion PL5 | | 55ppm = 37 |
| 502-382 | PowerLevelPerce | LVPS Power Level to Per- | Range = 0 to 100 | 45ppm = 32 |
| | ntagePL4 | centage conversion PL4 | | 55ppm = 32 |
| | | | | |

Table 3 IOT NVM ID 502-292 to 502-399

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------------------|------------------------------------|
| 502-383 | PowerLevelPerce ntagePL3 | LVPS Power Level to Percentage conversion PL3 | Range = 0 to 100 | 45ppm = 30 55ppm = 30 |
| 502-384 | PowerLevelPerce ntagePL2 | centage conversion PL2 | Range = 0 to 100 | 45ppm = 30 55ppm = 30 |
| 502-385 | PowerLevelPerce ntagePL1 | LVPS Power Level to Percentage conversion PL1 | Range = 0 to 100 | 45ppm = 30 55ppm = 30 |
| 502-386 | NvmDelayBefor- eLampsOffDuplex | after the last duplex sheet in the queue has been fed. | Range = 0 to 3000ms | 45ppm = 2000 55ppm = 2000 |
| 502-387 | NvmMaxPi- CappedValue | The maximum capped value for the integral term for the PID lamp temperature control | Range = 0 to 30 | 45ppm = 20 55ppm = 20 |
| 502-388 | NvmFsrStand- byTempCorrup- tionCheck | NVM Fuser Standby Temp Corruption Check | Range = 0 to 2100 | 45ppm = 600 55ppm = 600 |
| 502-389 | NvmFsrRunT- empCorrup- tionCheck | NVM Fuser Run Temp Cor- ruption Check | Range = 100 to 2100 | 45ppm = 1950 55ppm = 1950 |
| 502-390 | NvmFsrMaxTarge tTempCorr_Chec k | NVM Fuser Max Target Temp Corruption Check | Range = 1600 to 2600 | 45ppm = 2400 55ppm = 2400 |
| 502-391 | FsrThrottlingEn- able | Enables/Disables productivity reduction to maintain fuser temperature when line power is insufficient to keep fuser at fusing temperature. | Range = 0 to 1 | 45ppm = 1 55ppm = 1 |
| 502-392 | FsrLampPriori- tySwitchPeriod | During lamp power capping, when the required lamp powers for lamps 1 and 2 are equal the lamps are alternately powered based on this time period. | Range = 0 to 1500ms | 45ppm = 500 55ppm = 500 |
| 502-393 | FsrSemiReady- ModeEnable | Fuser semi ready mode enable | 0 = Disabled, 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 502-394 | TranspTempffset | Fuser target temperature offset applied when Transparency media is fed. | Range = -20 to 20 Deg. C | 45ppm = -10 55ppm = -10 |
| 502-395 | EnvTempOffset | Fuser target temperature offset applied when Envelope media is fed. | Range = -20 to 20 Deg. C | 45ppm = 0 55ppm = 0 |

Table 3 IOT NVM ID 502-292 to 502-399

| NVM ID | NVM Name | NVM Description | Settings | Default | |
|---------|-----------------------------|---|------------------------------------|------------------------------------|--|
| 502-396 | LabelTempOffset | Fuser target temperature offset applied when Labels media is fed. | Range = -20 to 20 Deg. C | 45ppm = 15 55ppm = 15 | |
| 502-397 | NvmFsrDu- plexRunTemp | NvmFsrDuplexRunTemp | Range = 100 to 2100 Deg. C x 10 | 45ppm = 1900 55ppm = 1900 | |
| 502-398 | FsrDuplexRunT- empCheck | NvmFsrDuplexRunTemp- CorruptionCheck | Range = 100 to 2100 Deg. C x 10 | 45ppm = 1900 55ppm = 1900 | |
| 502-399 | FsrSemiReady- HoldUpTime | NvmFsrSemiReadyHoldUp- Time | Range = 100 to 2100 seconds | 45ppm = 1900 55ppm = 1900 | |

Table 4 IOT NVM ID 503-001 to 503-123

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|----------------------------|--|
| 503-001 | NvmFsrCrumSN Chars1to3 | Pseudo CRUM Machine Serial Number - Bytes 1, 2 & 3 (Read only) | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 503-002 | NvmFsrCrumSN Chars4to6 | Pseudo CRUM Machine Serial Number - Bytes 4, 5 & 6 (Read only) | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 503-003 | NvmFsrCrumSN Chars7to9 | Pseudo CRUM Machine Serial Number - Bytes 7, 8 & 9 (Read only) | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 503-004 | NvmFsrCrum- CRUTotalPrint- Count | Pseudo CRUM CRU Total Print Count (Read only) | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 503-005 | NvmFsrCrum- MaxPrintCount | Pseudo CRUM Max Print Count (Read only) | Range = 0 to 1000000 | 45ppm = 250000 55ppm = 250000 |
| 503-006 | NvmNotUSed389 | Not Used 389 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-007 | NvmFsrCrum- Model | Pseudo CRUM Model (Read only) | Range = 0 to 255 | 45ppm = 255 55ppm = 255 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|---|----------------------------|--|
| 503-008 | NvmFsrCrum- CompatibilityID | Pseudo CRUM Compatibility ID (Read only) | Range = 0 to 65535 | 45ppm = 65281 55ppm = 65281 |
| 503-009 | NvmFsrCrumSer- viceOffering | Pseudo CRUM Service Offering (Read only) | Range = 0 to 255 | 45ppm = 16 55ppm = 16 |
| 503-010 | NvmFsr- CrumEOLStatus | Pseudo CRUM EOL Status (Read only) | Range = 0 to 255 | 45ppm = 255 55ppm = 255 |
| 503-011 | NvmFsrCrumCur- rentLife | Pseudo CRUM Current Life (EOL/Resuse) (Read only) | Range = 0 to 255 | 45ppm = 255 55ppm = 255 |
| 503-012 | NvmFsrCrumOp- CodeID | Pseudo CRUM OpCo ID (Read only) | Range = 0 to 255 | 45ppm = 32 55ppm = 32 |
| 503-013 | NvmFsrCrumVolt- age | Pseudo CRUM Voltage (Read only) | Range = 0 to 255 | 45ppm = 2 55ppm = 2 |
| 503-014 | NvmFsrCrumPSC | Pseudo CRUM Print Secu- rity Count - PSC for the cur- rent life (Read only) | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-015 | NvmFsr- CrumEOLReuse | Pseudo CRUM EOL_Resure (Read only) | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-016 | NvmFsrCrumSpar e399 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-017 | NvmFsrCrumSpar e400 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-018 | NvmFsrCrumSpar e401 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-019 | NvmFsrCrumSpar e402 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 503-020 | NvmFsrCrumSN Chars10to12 | Pseudo CRUM Machine Serial Number - Bytes 10, 11 & 12 (Read only) | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 503-023 | NvmFsrCrum- CRUSerialNum | CRU Serial Number - Fuser | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|----------------------------|------------------------|
| 503-101 | NvmFsrActualCru mSNChars1to3 | Actual CRUM Machine Serial Number - Bytes 1, 2 & 3 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-102 | NvmFsrActualCru mSNChars4to6 | Actual CRUM Machine Serial Number - Bytes 4, 5 & 6 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-103 | NvmFsrActualCru mSNChars7to9 | Actual CRUM Machine Serial Number - Bytes 7, 8 & 9 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-104 | NvmFsrActual- CrumCRUTotal- PrintCt | Actual CRUM CRU Total Print Count | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-105 | NvmFsrActual- CrumMaxPrint- Count | Actual CRUM Max Print Count | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-106 | NvmFsrActual- CrumLastUsed- Date | Actual CRUM Last Used Date | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-107 | NvmFsrActual- CrumSuperCom- patID | Actual CRUM Super Compatibility ID | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-108 | NvmFsrActual- CrumCompatibili- tyID | Actual CRUM Compatibility ID | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-109 | NvmFsrActual- CrumServiceOf- fering | Actual CRUM Service Offering | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-110 | NvmFsrActual- CrumEOLStatus | Actual CRUM EOL Status | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-111 | NvmFsrActual- CrumCurrentLife | Actual CRUM Current Life (EOL/Resuse) | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-112 | NvmFsrActual- CrumOpCodeID | Actual CRUM OpCo ID | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-113 | NvmFsrActual- CrumVoltage | Actual CRUM Voltage | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-114 | NvmFsrActualCru mPSC1 | Actual CRUM Print Secu- rity Count 1 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-115 | NvmFsrActualCru mPSC2 | Actual CRUM Print Security Count 2 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-116 | NvmFsrActualCru mPSC3 | Actual CRUM Print Security Count 3 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-117 | NvmFsrActualCru mPSC4 | Actual CRUM Print Security Count 4 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-118 | NvmFsrActualCru mPSC5 | Actual CRUM Print Secu- rity Count 5 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

Table 4 IOT NVM ID 503-001 to 503-123

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|------------------------|
| 503-119 | NvmFsrActualCru mPSC6 | Actual CRUM Print Secu- rity Count 6 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-120 | | Actual CRUM Machine Serial Number - Bytes 10, 11 & 12 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 503-123 | NvmFsrActual- CrumCRUSerial- Num | CRU Serial Number - Fuser | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

Table 5 IOT NVM ID 504-001 to 504-125

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|----------------------------|--|
| 504-001 | NvmPcCrumSNC hars1to3 | Pseudo CRUM Machine Serial Number - Bytes 1, 2 & 3 (Read only). | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 504-002 | NvmPcCrumSNC hars4to6 | Pseudo CRUM Machine Serial Number - Bytes 4, 5 & 6 (Read only). | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 504-003 | NvmPcCrumSNC hars7to9 | Pseudo CRUM Machine Serial Number - Bytes 7, 8 & 9 (Read only). | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 504-004 | NvmPcCrum- CRUTotalPrint- Count | Pseudo CRUM CRU Total Print Count (Read only). | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 504-005 | NvmPcCrumMax- PrintCount | Pseudo CRUM Max Print Count (Read only). | Range = 0 to 1000000 | 45ppm = 250000 55ppm = 250000 |
| 504-006 | PhotoDevUnitAge | Pseudo CRUM PRCycle Count (Print cartridge age) (Read only) | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 504-007 | NvmPcCrumMax- PRCycleCount | Pseudo CRUM Max PR Cycle Count (Read only). | Range = 0 to 1000000 | 45ppm = 400000 55ppm = 400000 |
| 504-008 | NotUsed410 | Not Used 410 | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-009 | PcCrumSuper- CompatibilityID | Pseudo CRUM Super Compatibility ID (Read only). | Range = 0 to 65535 | 45ppm = 255 55ppm = 255 |

Table 5 IOT NVM ID 504-001 to 504-125

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|--|----------------------------|--|
| 504-010 | PcCrumCompati- bilityID | Pseudo CRUM Compatibility ID (Read only). | Range = 0 to 65535 | 45ppm = 65281 55ppm = 65281 |
| 504-011 | PcCrumService- Offering | Pseudo CRUM Service Offering (Read only). | Range = 0 to 255 | 45ppm = 64 55ppm = 64 |
| 504-012 | PcCrumEOLSta- tus | Pseudo CRUM EOL Status (Read only). | Range = 0 to 255 | 45ppm = 255 55ppm = 255 |
| 504-013 | PcCrumCur- rentLife | Pseudo CRUM Current Life (EOL/Resuse) (Read only). | Range = 0 to 255 | 45ppm = 255 55ppm = 255 |
| 504-014 | PcCrumOpCo- deID | Pseudo CRUM OpCo ID (Read only). | Range = 0 to 1000 | 45ppm = 32 55ppm = 32 |
| 504-015 | PcCrumSpare417 | Pseudo CRUM SPAR (Read only). | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-016 | PcCrumPSC | Pseudo CRUM Print Security Count - PSC for the current life (Read only). | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-017 | PcCrumEOL- Reuse | Pseudo CRUM EOL_Resure (Read only) | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-018 | PcCrumSpare420 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-019 | PcCrumSpare421 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-020 | PcCrumSpare422 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-021 | PcCrumSpare423 | Pseudo CRUM SPARE | Range = 0 to 2147483647 | 45ppm = 2147483647 55ppm = 2147483647 |
| 504-022 | PcCrumSNChars 10to12 | Pseudo CRUM Machine Serial Number - Bytes 10, 11 & 12 (Read only). | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |

Table 5 IOT NVM ID 504-001 to 504-125

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|--|----------------------------|--|
| 504-023 | PcCrumCRUSeri- alNum | CRU Serial Number - Print Cartridge (Read only). | Range = 0 to 2147483647 | 45ppm = 808464432 55ppm = 808464432 |
| 504-024 | ExpOffsetCRU | Pseudo CRU - Print Car- tridge exposure offset (Read only) | Range = 0 to 255 | 45ppm = 127 55ppm = 127 |
| 504-025 | TcNonCruPuck- CalNumber | TcNonCruPuckCalNumber (Read only) | Range = 11 to 99 | 45ppm = 55 55ppm = 55 |
| 504-101 | NotUsed443 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-102 | NotUsed444 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-103 | NotUsed445 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-104 | NotUsed446 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-105 | NotUsed447 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-106 | NotUsed448 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-107 | NotUsed449 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-108 | NotUsed450 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-109 | NotUsed451 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-110 | NotUsed452 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-111 | NotUsed453 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-112 | NotUsed454 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-113 | NotUsed455 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-114 | NotUsed456 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-115 | NotUsed457 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-116 | NotUsed458 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-117 | NotUsed459 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-118 | NotUsed460 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |

Table 5 IOT NVM ID 504-001 to 504-125

| Table 5 TOT NVM ID 504-001 to 504-125 | | | | |
|---------------------------------------|---|--|---|----------------------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 504-119 | NotUsed461 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-120 | NotUsed462 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-121 | NotUsed463 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-122 | NotUsed471 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-123 | NotUsed483 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 504-124 | ThirdPartyExpOff- setCRU | 3rd Party (No CRUM) - Print Cartridge exposure offset set to mid-range value | Range = 0 to 255 | 45ppm = 127 55ppm = 127 |
| 504-125 | ThirdPartyTcNon- CruPuckCalNum- ber | 3rd Party (No CRUM) Print cartridge TC sensor calibration value for use in xerographic control algorithms. | Range = 11 to 99 | 45ppm = 55 55ppm = 55 |
| 504-130 | PCExtend- edLifeState | Print Cartridge Extended Life state (PC CRU Snooze) (Read only) | 0 = Disabled 1 = Primed 2 = Enabled | 45ppm = 0 55ppm = 0 |
| 504-131 | PCExtendedLife- PrintCount | Print Cartridge Extended Life Print counter (PC CRU Snooze) (Read only) | Range 0 to 10000 | 45ppm = 0 55ppm = 0 |

Table 6 IOT NVM ID 505-001 to 505-033

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------|--|-------------------------|------------------------------------|
| 505-001 | SPARE509 | Pseudo CRUM spare (Read only). | Range = 0 to 255 | 45ppm = 128 55ppm = 128 |
| 505-002 | TCoffsetCRU | Pseudo CRU - Toner Bottle CRU TC offset (Read only). | Range = 0 to 255 | 45ppm = 127 55ppm = 127 |
| 505-003 | PxlCumBottle- Empty | PxlCumBottleEmpty (Read only). | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 505-004 | PxlCum | Accumulated Pixels (Read only) | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 505-005 | DispCum | Accumulated Dispense Time (Read only) | Range = 0 to 1000000 | 45ppm = 0 55ppm = 0 |
| 505-006 | TcPxlCoeff | Nominal Image Pixel to Dispense Time Conversion Coefficient (Read only). | Range = 0 to 1000 | 45ppm = 166 55ppm = 166 |
| 505-007 | PxlCumTnrIndCo- eff | Image Pixel to Toner Mass Conversion Coefficien (Read only). | Range = 0 to 1000 | 45ppm = 1551 55ppm = 1551 |

Table 6 IOT NVM ID 505-001 to 505-033

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|--|--|
| 505-008 | DispCumTnrInd- Coeff | Dispense Time to Toner Mass Conversion Coeffi- cient (Read only). | Range = 0 to 1000mg/s | 45ppm = 1300 55ppm = 1300 |
| 505-009 | TnrEmptyFlag | Xerographics Toner Bottle State indicator (Read only). | 0 = Empty 1 = Nearly Empty 2 = Low 3 = Full | 45ppm = 0 55ppm = 0 |
| 505-010 | PxlCumBottle- EmptyTh | Bottle Empty Pixel Count Threshold (Read only). | Range = 0 to 20000 | 45ppm = 4700 55ppm = 4700 |
| 505-011 | MassInBottle | Initial toner Mass In Bottle (Read only). | Range = 0 to 700000mg | 45ppm = 460000 55ppm = 460000 |
| 505-012 | TnrlnBottleTh | Bottle Empty Detection Start Threshold (Read only). | Range = 0 to 100% | 45ppm = 35 55ppm = 35 |
| 505-013 | TcEmptyStartTh | Bottle Empty TC Error Threshold 1 (ADC count) (Read only). | Range = 0 to 1000 | 45ppm = 6 55ppm = 6 |
| 505-014 | TcNearEmptyTh | Bottle Empty TC Error Threshold 2 (ADC count) (Read only). | Range = 0 to 1000 | 45ppm = 12 55ppm = 12 |
| 505-015 | TcEmptyTh | Bottle Empty TC Error Threshold 3 (ADC count) (Read only) | Range = 0 to 1000 | 45ppm = 18 55ppm = 18 |
| 505-016 | NvmTonerBottle- CRUSerialNum- ber | Pseudo CRU - Toner Bottle CRU Serial Number (Read only). | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 505-017 | TonerBottle- CRUMEOLFlag | Validation: Toner Bottle End of Life (EOL) Flag (Read only). | 0 = In Life 1 = End of life | 45ppm = 1 55ppm = 1 |
| 505-018 | TonerBottleCRU- CompatibilityID | Validation: Toner Bottle - Compatibility ID (Read only). | Range = 0 to 65535 | 45ppm = 65281 55ppm = 65281 |
| 505-019 | TonerBottle- CRUServiceOp- Code | Validation: Toner Bottle - Service Op Code (Read only). | Range = 0 to 255 | 45ppm = 64 55ppm = 64 |
| 505-020 | TonerBottleCRU- Region | Validation: Toner Bottle - Region compatibility (Read only). | Range = 0 to 255 | 45ppm = 64 55ppm = 64 |
| 505-021 | TnrInBottle | Remaining toner in bottle as a percentage (Read only). | Range = -100 to 100 | 45ppm = 100 55ppm = 100 |

Table 6 IOT NVM ID 505-001 to 505-033

| 1able 6 IOT NVM ID 505-001 to 505-033 | | | | | | |
|---------------------------------------|---------------------------------------|--|-----------------------------|--|--|--|
| NVM ID | NVM Name | NVM Description | Settings | Default | | |
| 505-022 | TonerBottlePrints- Made | Toner Bottle - Prints made (Read only). | Range = 0 to 50000 | 45ppm = 0 55ppm = 0 | | |
| 505-023 | TonerBottleLas- tUsedDate | Toner Bottle - Last Used Date (Read only). | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 | | |
| 505-024 | NotUsed600 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 | | |
| 505-025 | NotUsed601 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 | | |
| 505-026 | NotUsed602 | Not used | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 | | |
| 505-027 | ServicePlan- LearningMode- Flag | Service Plan Learning Mode Flag | 0 = Disabled 1 = Enabled | 45ppm = 0 55ppm = 0 | | |
| 505-028 | NvmLearningMo- deInhibitFlag | Learning Mode Inhibit Flag, will stop the machine service plan from automatically changing to a service plan compatible with the toner op code plan (Read only). | 0 = Disabled 1 = Enabled | 45ppm = 0 55ppm = 0 | | |
| 505-029 | TcPxlOotCoeff | Modified coefficient to be used when toner bottle is nearly empty (Read only). | Range = 0 to 1000 | 45ppm = 310 55ppm = 310 | | |
| 505-030 | MaxDispTime- Hardstop | Toner Bottle - Max Accumulated Dispense Time (Hardstop) (Read only). | Range = 0 to 100000000 | 45ppm = 9000000 55ppm = 9000000 | | |
| 505-031 | ThirdPartyTCoff- setCRU | 3rd Party (NO CRUM) - Toner Bottle CRU TC offset. | Range = 0 to 255 | 45ppm = 127 55ppm = 127 | | |
| 505-032 | XeroxMfgStringA | Read from toner RF CRUM location 0x011 if validation passes (CRUM contains "Xero") (Read only). | | | | |
| 505-033 | XeroxMfgStringB | Toner Bottle - Genuine Xerox Manufactured string - used for Counterfeit protec- tion. (Read only). | | | | |

Table 7 IOT NVM ID 506-001 to 506-023

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|--|--|--------------------------------------|
| 506-001 | NvmDelayBefore- FansOff | Time delay when the LHD fuser fans are turned OFF after Cycle-Out | Range = 0 to 255000 | 45ppm = 60000 55ppm = 60000 |
| 506-002 | LSDFanOnAccu- mulatorCapping | Fan accumulator capping NVM. | Range = 0 to 200 | 45ppm = 40 55ppm = 40 |
| 506-003 | LSDFanOn- Threshold | The max fan accumulated count. | Range = 0 to 200 | 45ppm = 20 55ppm = 20 |
| 506-004 | FanDriveConfiguration | Sets the fan control configuration. | 0 = Left door fans and PC fan 1 = Left door fans only | 45ppm = 0 55ppm = 0 |
| 506-005 | PcFanMaxLimit1 | Sets the max print cartridge fan run on time at end of printing when temp less than 35 degrees. | Range = 0 to 255 | 45ppm = 144 55ppm = 150 |
| 506-006 | | Sets the max print cartridge fan run on time at end of printing when temp >35<40 degrees. | Range = 0 to 255 | 45ppm = 144 55ppm = 150 |
| 506-007 | PcFanMaxLimit3 | Sets the max print cartridge fan run on time at end of printing when temp >40 degrees. | Range = 0 to 255 | 45ppm = 144 55ppm = 150 |
| 506-008 | PcFanOnThresho ld1 | Sets the print cartridge fan on threshold when temp <35 degrees. | Range = 0 to 150 | 45ppm = 1 55ppm = 1 |
| 506-009 | PcFanOnThresho ld2 | Sets the print cartridge fan on threshold when temp >35<40 degrees. | Range = 0 to 100 | 45ppm = 44 55ppm = 50 |
| 506-010 | PcFanOnThresho ld3 | Sets the print cartridge fan on threshold when temp <40 degrees. | Range = 0 to 50 | 45ppm = 44 55ppm = 50 |
| 506-011 | FanCheckTime | Left Door Fuser fans. Defines fan time from sheet count | Range = 1000 to 100000 | 45ppm = 3000 55ppm = 3000 |
| | | PC Fan Temp limit 1. | Range = 10 to 80 Deg. C | 45ppm = 60 55ppm = 60 |
| 506-013 | - | PC Fan Temp limit 2. | Range = 10 to 80 Deg. C | 45ppm = 65 55ppm = 65 |
| 506-014 | PcFanTempLimit3 | PC Fan Idle temp limit: Temp limit when PC fan comes on in idle. | Range = 10 to 80 Deg. C | 45ppm = 43 55ppm = 43 |

Table 7 IOT NVM ID 506-001 to 506-023

| Table 7 TOT INVINITE 500-001 to 500-025 | | | | |
|---|---|---|-----------------------------|----------------------------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 506-015 | PcFanOnDuring- PrintEnable | Print cartridge cooling fan on during print enablement flag - low productivity cool- ing. | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 506-020 | PcFanMaxLimit4 | Print cartridge cooling fan accumulator (B) max limit. | Range = 0 to 2000 | 45ppm = 800 55ppm = 800 |
| 506-021 | PcFanOnThresho Id4 | Print cartridge cooling fan accumulator (B) threshold limit. | Range = 0 to 2000 | 45ppm = 640 55ppm = 640 |
| 506-022 | PcFanOnDuring- HighPrintEnable | Print cartridge cooling fan on during print enablement flag - high productivity cool- ing. | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 506-023 | PcFanOnHigh- PrintMediaPro- cLength | Accumulator B - Process length of media where PC fan can be turned on during printing | Range = 0 to 1000mm | 45ppm = 360 55ppm = 360 |

Table 8 IOT NVM ID 507-001 to 507-004

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|--|-----------------------------|----------------------------|
| 507-001 | I2CbusPowerRes etEnable | I2C bus power is cycled when an I2C communications bus lockup occurs | 0 = Enabled 1 = Disabled | 45ppm = 1 55ppm = 1 |
| 507-002 | I2CbusSystemRe startEnable | Status is raised causing a system restart when I2C bus power is cycled did not restore I2C communications. | 0 = Enabled 1 = Disabled | 45ppm = 1 55ppm = 1 |
| 507-003 | I2CBusPowerOff Period | Period which I2C bus power is removed when communications lockup detected. | Range = 0 to 1000ms | 45ppm = 300 55ppm = 300 |
| 507-004 | I2CBusCommsPo stOffPeriod | Period after I2C bus power removal before I2C commu- nications can be attempted | Range = 0 to 1000ms | 45ppm = 100 55ppm = 100 |

Table 9 IOT NVM ID 510-001 to 512-002

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------|---|---|----------------------------|
| 510-001 | PrintRate | Number of prints per minute | 0 = A class 40ppm 1 = A class 45ppm 2 = A class 50ppm 3 = A class 55ppm 4 = Unknown speed 5 = Unknown speed 6 = Unknown speed 7 = Unknown speed 8 = Unknown speed 9 = Unknown speed 9 = Unknown speed 255 = No run speed (install) | 45ppm = 255 55ppm = 255 |
| 510-008 | SerialIDPart1 | Serial Number Primary (Read only). | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 510-009 | SerialIDPart2 | Serial Number Secondary (Read only). | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 510-010 | SerialIDPart3 | Serial Number Secondary (Read only). | Range = 0 to 2147483647 | 45ppm = 0 55ppm = 0 |
| 510-053 | ServicePlanMirror | Service plan - CCS NVM mirrored value (Read only). Refer to CCS 606-269 | 0 = Sold 1 = Non Sold 2 = Third Party 3 = Xerox man- aged supplies 4 = Page pack 5 = DMO sold | 45ppm = 0 55ppm = 0 |
| 510-054 | ror | Market Region - CCS NVM mirrored value (Read only). Refer to CCS 616-001 | 0 = US 1 = XCL (Canada) 2 = FX (Fuji Xerox Japan) 3 = FXAPO (Fuji Xerox Asian Pacific) 4 = ACO (Latin) 5 = RX (Europe) 6 = MR DMO East 7 = MR DMO West | 45ppm = 0 55ppm = 0 |
| 510-900 | FSRPCCRUME- nablement | Fuser & Print Cartridge CRUM operational code (Read only). | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |

Table 9 IOT NVM ID 510-001 to 512-002

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------|--|-----------------------------|--|
| 510-901 | CRUMEnable- ment | Enables/Disables all CRUM operational code - used for development testing. | 0 = Disabled 1 = Enabled | 45ppm = 1 55ppm = 1 |
| 512-001 | NvmBTRPrint- Count | Bias Transfer Roller Print Counter | Range = 0 to 5000000 | 45ppm = 0 55ppm = 0 |
| 512-002 | NvmBTRMaxLife | Bias Transfer Roller Max Print Life | Range = 0 to 1000000 | 45ppm = 500000 55ppm = 500000 |

Table 10 IOT NVM ID 520-320 to 520-339

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------|-----------------|-----------------|------------------------|
| 520-320 | NvmDebugApps | NvmDebugApps | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-321 | NvmDebugTool | NvmDebugTool | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-322 | NvmDebugFeed | NvmDebugFeed | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-323 | NvmDebugPpath | NvmDebugPpath | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-324 | NvmDebugMisc | NvmDebugMisc | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-325 | NvmDebugFuse | NvmDebugFuse | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-326 | NvmDebugFin | NvmDebugFin | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-327 | NvmDebugXero | NvmDebugXero | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-328 | NvmDebuNvm | NvmDebuNvm | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-329 | NvmDebugComm | NvmDebugComm | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-330 | NvmDebugDiag | NvmDebugDiag | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-331 | NvmDebugSched | NvmDebugSched | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-332 | NvmDebugDctl | NvmDebugDctl | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-333 | NvmDebugSnsr | NvmDebugSnsr | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-334 | NvmDebugMotr | NvmDebugMotr | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |

Table 10 IOT NVM ID 520-320 to 520-339

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------|--|--|------------------------|
| 520-335 | NvmDebugSheet | NvmDebugSheet | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-336 | NvmDebugToner | NvmDebugToner | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-337 | NvmDebugPro- Con | NvmDebugProCon | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-338 | NvmDebugCrum | NvmDebugCrum | Range = 0 to 15 | 45ppm = 7 55ppm = 7 |
| 520-339 | NvmDebug- FuserRT | Displays log for fuser power level and power capping | 0 = No log 1 = Error 2 = Warning 4 = Info Log 8 = User Log | 45ppm = 0 55ppm = 0 |

Table 11 CCS NVM ID 600-001 to 600-151

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|---------------------------|--------------------|---------|
| 600-001 | Compression Mode | Compression Mode | Range = 0 to 1 | 0 |
| 600-002 | Reserved Blocks | Reserved blocks | Range = 0 to 5 | 0 |
| 600-003 | Megs of Memory | Megs of memory | Range = 0 to 65535 | 16 |
| 600-004 | EPC memory low percent | EPC memory low percent | Range = 1 to 99 | 38 |
| 600-005 | Disk Mode | Disk Mode | Range = 0 to 1 | 1 |
| 600-006 | Memory Out Bound | Memory Out Bound | Range = 0 to 6 | 6 |
| 600-007 | EPC memory full percent | EPC memory full percent | Range = 1 to 99 | 12 |
| 600-008 | Use Partial Blocks | Use Partial Blocks | Range = 0 to 1 | 1 |
| 600-009 | BlockSize in K | Block size in K | Range = 200 to 200 | 200 |
| 600-010 | Initial Blocks | initial blocks | Range = 12 to 24 | 12 |
| 600-011 | Blocks Needed | Blocks Needed | Range = 8 to 20 | 8 |
| 600-012 | Frame Size | Frame Size | Range = 923 to 923 | 923 |
| 600-013 | Percent of Frame Size | Percent of frame size | Range = 1 to 99 | 70 |
| 600-014 | Making mode when EPC full | Making mode when EPC full | Range = 0 to 3 | 0 |
| 600-015 | Ram Size Mis- match FaultFC | Fault counter 319-750-00 | Range = 0 to 255 | 0 |
| 600-016 | Disk Mode Mis- match FaultFC | Fault counter 319-754-00 | Range = 0 to 255 | 0 |

Table 11 CCS NVM ID 600-001 to 600-151

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|----------------------------|---------------|
| 600-017 | Out Memory Fault - StrNC docFC | Fault counter 319-401-00. | Range = 0 to 255 | 0 |
| 600-018 | Compressor DVMA Timeout Fault | Fault counter 319-402-00 | Range = 0 to 255 | 0 |
| 600-019 | Memory on Target | Amount of EPC memory | Range = 0 to 65535 | 512 |
| 600-020 | AHA End of Record Fault | Fault counter 322-300-00 | Range = 0 to 255 | 0 |
| 600-021 | Disk spin up delay time | Time before image disk receives power (sec) | Range = 0 to 30 | 10 |
| 600-022 | Platinum Board Full Concurrency | Platinum board full concur- rency | Range = 0 to 1 | 1 |
| 600-023 | Image disk parti- tion size | Image disk partition size | Range = 0 to 30 | 4 |
| 600-024 | Image Disk Dirty | Image Disk Dirty | Range = 0 to 1 | 0 |
| 600-025 | IJO Enabled | IJO Enabled | Range = 0 to 1 | 1 |
| 600-026 | Disk Dirty at power up | Disk Dirty at power up | Range = 0 to 1 | 0 |
| 600-027 | Maximum net- work read attempts | Value of maximum network read attempts | Range = 1 to 255 | 3 |
| 600-028 | KDrumPixelCount | K Drum Pixel Count | Range = 0 to 4294967295 | 0 |
| 600-029 | CDrumPixelCount | C Drum Pixel Count | Range = 0 to 4294967295 | 0 |
| 600-030 | MDrumPixel- Count | M Drum Pixel Count | Range = 0 to 4294967295 | 0 |
| 600-031 | YDrumPixelCount | Y Drum Pixel Count | Range = 0 to 4294967295 | 0 |
| 600-032 | vramLevel1RecT hreshhold | vram Level1 Rec Threshold | Range = 0 to 4294967295 | 471859 200 |
| 600-033 | vramLevel1TripTh reshhold | vram Level 1 Trip Threshold | Range = 0 to 4294967295 | 419430 400 |
| 600-034 | vramLevel2RecT hreshhold | vram Level 2 Rec Threshold | Range = 0 to 4294967295 | 367001 600 |
| 600-035 | vramLevel2TripTh reshhold | vram Level 2 Trip Threshold | Range = 0 to 4294967295 | 314572 800 |
| 600-036 | vramLevel3RecT hreshhold | vram Level 3 Rec Threshold | Range = 0 to 4294967295 | 256901 120 |
| 600-037 | vramLevel3TripTh reshhold | vram Level 3 Trip Threshold | Range = 0 to 4294967295 | 209715 200 |
| 600-038 | vramLevel4RecT hreshhold | vram Level 4 Rec Threshold | Range = 0 to 4294967295 | 175112 192 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|---|----------------------------|---------------|
| 600-039 | vramLevel4TripTh reshhold | vram Level 4 Trip Threshold | Range = 0 to 4294967295 | 140509 184 |
| 600-040 | vramLevel5RecT hreshhold | vram Level 5 Rec Threshold | Range = 0 to 4294967295 | 105906 176 |
| 600-041 | vramLevel5TripTh reshhold | vram Level 5 Trip Threshold | Range = 0 to 4294967295 | 702545 92 |
| 600-042 | vramLevel6RecT hreshhold | vram Level 6 Rec Threshold | Range = 0 to 4294967295 | 356515 84 |
| 600-043 | reshhold | vram Level 6 Trip Threshold | Range = 0 to 4294967295 | 104857 6 |
| 600-044 | cacheAllImag- esToDisk | CacheAllImagesToDisk | Range = 0 to 1 | 0 |
| 600-045 | Total Black Pixel Count Low | Total black pixel count low (Read only) | Range = 0 to 4294967295 | 0 |
| 600-046 | Total Black Pixel Count Up | Total black pixel count up (Read only) | Range = 0 to 4294967295 | 0 |
| 600-053 | Total Black Run Mode AC INT | Total Black Run Mode AC INT (Read only) | Range = 0 to 4294967295 | 0 |
| 600-058 | Toner Coverage Plane1-1 | Toner Coverage Plane1-1 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-059 | Toner Coverage Plane1-2 | Toner Coverage Plane1-2 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-060 | Toner Coverage Plane1-3 | Toner Coverage Plane1-3 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-061 | Toner Coverage Plane1-4 | Toner Coverage Plane1-4 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-062 | Toner Coverage Plane1-5 | Toner Coverage Plane1-5 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-063 | Toner Coverage Plane1-6 | Toner Coverage Plane1-6 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-064 | Toner Coverage Plane1-7 | Toner Coverage Plane1-7 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-065 | Toner Coverage Plane1-8 | Toner Coverage Plane1-8 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-066 | Toner Coverage Plane1-9 | Toner Coverage Plane1-9 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-067 | Toner Coverage Plane1-10 | Toner Coverage Plane1-10 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-068 | Toner Coverage Plane1-11 | Toner Coverage Plane1-11 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-069 | Toner Coverage Plane1-12 | Toner Coverage Plane1-12 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-070 | Toner Coverage Plane1-13 | Toner Coverage Plane1-13 (Read only) | Range = 0 to 4294967295 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|--|----------------------------|---------|
| 600-071 | Toner Coverage Plane1-14 | Toner Coverage Plane1-14 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-072 | Toner Coverage Plane1-15 | Toner Coverage Plane1-15 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-073 | Toner Coverage Plane1-16 | Toner Coverage Plane1-16 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-074 | Toner Coverage Plane1-17 | Toner Coverage Plane1-17 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-075 | Toner Coverage Plane1-18 | Toner Coverage Plane1-18 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-076 | Toner Coverage Plane1-19 | Toner Coverage Plane1-19 (Read only) | Range = 0 to 4294967295 | 0 |
| 600-134 | Total Black Marked Images | Total Black Marked Images (Read only) | Range = 0 to 4294967295 | 0 |
| 600-139 | Total Black Run Mode AC FP | Total Black Run Mode AC FP (Read only) | Range = 0 to 4294967295 | 0 |
| 600-143 | Total Black Color Mode AC FP | Total Black Color Mode AC FP (Read only) | Range = 0 to 4294967295 | 0 |
| 600-145 | 10 to 11% Black Area Coverage | Total number of impressions between 10 - 11% Black page coverage. Image area cover- age Plane 1-20. (Read only) | Range = 0 to 4294967295 | 0 |
| 600-147 | 11 to 12% Black Area Coverage | Total number of impressions between 11 - 12% Black page coverage. Image area cover- age Plane 1-21. (Read only) | Range = 0 to 4294967295 | 0 |
| 600-149 | 13 to 16% Black Area Coverage | Total number of impressions between 13 - 16% Black page coverage. Image area cover- age Plane 1-22. (Read only) | Range = 0 to 4294967295 | 0 |
| 600-151 | 17 to 20% Black Area Coverage | Total number of impressions between 17 - 20% Black page coverage. Image area cover- age Plane 1-23. (Read only) | Range = 0 to 4294967295 | 0 |

Table 12 CCS NVM ID 602-001 to 603-039

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------|---|--------------------|---------|
| 602-001 | DiagJobIDGener- ator | | Range = 1 to 999 | 1 |
| 603-001 | • | Interval of APS recognition of standard size (mm) | Range = 1 to 65535 | 5 |

Table 12 CCS NVM ID 602-001 to 603-039

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|----------------------------------|---------|
| 603-002 | APSStandardSiz- eRequired | Determines weather APS requires input to be a standard size. | 0 = False (Off) 1 = True (On) | 0 |
| 603-003 | CopySimplexOut- putStart | Number of images inputted before simplex copy job is released for marking | Range = 0 to 65535 | 1 |
| 603-004 | CopyDuplexOut- putStart | Number of images inputted before duplex copy job is released for marking | Range = 0 to 65535 | 4 |
| 603-005 | CopyJobPriority | The priority set by SA of copy job (used for job contention) | Range = 0 to 65535 | 3 |
| 603-006 | NextCopyJobID | Value of next copy jobs ID (Read only) | Range = 1 to 999 | 1 |
| 603-008 | COPYMarkedIm- agesDisplayable | Determines whether copy marked images counter is displayedable. | 0 = False 1 = True | 1 |
| 603-010 | COPYSheetsDis- playable | Determines whether copy sheets counter is displayable | 0 = False 1 = True | 0 |
| 603-012 | COPYDuplex- SheetsDisplay- able | Determines whether copy duplex sheets counter is displayable | 0 = False 1 = True | 0 |
| 603-014 | COPY- LargeSheetsDis- playable | Determines whether copy 11x17 inch and A3 sheets counter is displayable | 0 = False 1 = True | 0 |
| 603-024 | crashRecovery- Enabled | Determines whether copy job recovery is enabled | 0 = False 1 = True | 1 |
| 603-025 | ABSPres- canAllowed | Disable and enable ABS prescan | 0 = False 1 = True | 0 |
| 603-036 | COPYMarkedCol- orlmagesDisplay | Determines whether copy image counter is displayable | 0 = False 1 = True | 1 |
| 603-039 | COPYLargeCol- orSheetsDisplay | Determines whether large copy sheets counter is displayable | 0 = False 1 = True | 0 |

Table 13 CCS NVM ID 604-001 to 604-220

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------|---|--|---------|
| 604-001 | Feeder Module Type | Defines the feeder module types | 0 = Invalid Module 55 = SMH 57 = HCF 58 = HCF with covers 60 = PFP (tray 6) 62 = Envelope Feeder 221 = Standard PFP (bypass tray) 223 = Large Kit PFP A4 LEF / A3 SEF 224 = Short edge kit A4 SEF 225 = Short edge kit Letter SEF / Legal SEF Range = 0 to 255 | 0 |
| 604-002 | Finisher Module Type | Defines the finisher module type that has been detected by the system (Read only) | 65 = OCT 100 = No finisher 110 = 2K LCSS 120 = 1K LCSS 171 = HVF 172 = HVF BM 173 = HVF inserter 174 = HVF BM Inserter 175 = HVF Tri-folder 176 = HVF Tri-folder Inserter 239 = LVF BM Range = 65 to 255 | 100 |
| 604-004 | MSDefaultColor | Defines the default color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Golden rod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange Range = 0 to 20 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|--|--|---------|
| 604-006 | MSDefaultType | Defines default type | 0 = Standard 1 = Drilled (pre- punched) 2 = Envelopes 4 = Transparency 5 = Letter head 6 = Labels 7 = Recycled Range = 0 to 60 | 0 |
| 604-008 | MSDefaultWeight | Defines medium weight (not used) (gsm) | Range = 56 to 203 | 75 |
| 604-010 | PEAutoResume | Resume time out settings in seconds | Range = 0 to 120 (0 = Disabled) | 30 |
| 604-017 | PrintModuleInfo | Debug switch settings | 0 = Off 1 = On | 0 |
| 604-021 | Total Images Dis- playable | Enable display of total images | 0 = Off 1 = On | 1 |
| 604-070 | MSDefaultFin- isherAR | Default finisher auto resume settings | Range = 0 to 120 (0 = Disabled) | 30 |
| 604-084 | MSFaceUpEn- abled | Enable face up setting | 0 = Off (normal delivery) 1 = Deliver face up | 0 |
| 604-112 | MSDefaultTray- Train | - | Range 0 to 2 | 0 |
| 604-113 | MSDefaultTray- Stack | - | Range 0 to 1 | 0 |
| 604-114 | MSDefaultTrayId | - | Range 0 to 4 | 0 |
| 604-115 | Propose Count No Finisher | - | Range 2 to 16 | 12 |
| 604-116 | LastJobIDToRe- cover | Last job ID to recover | Range 0 to 65535 | 0 |
| 604-118 | LastImage- IDToRecover | Last image ID to recover | Range 0 to 65535 | 0 |
| 604-119 | IOTCommFault- Count | IOT Comm Fault Count | Range 0 to 3 | 0 |
| 604-120 | PrintPagesCom- pleted | Print Pages Completed (Read only) | Range 0 to 65535 | 0 |
| 604-121 | SetsCompleted | Last set Completed (Read only) | Range 0 to 65535 | 0 |
| 604-122 | LastService- IDToRecover | Last service ID to recover (Read only) | Range 0 to 65535 | 0 |
| 604-123 | QtyToRecover | Quantity to recover | Range 0 to 65535 | 0 |
| 604-125 | MSDefaultDe- curler | Default decurler level settings | 0 = Low decurler 1 = Normal decurler 2 = High decurler | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|--|-----------------------------------|---------|
| 604-127 | MSOffsetEna- bledPolicy | Enable offset policy | 0 = Off 1 = On Range 0 to 1 | 0 |
| 604-128 | SerNumSet | Serial number set | Range 0 to 1 | 0 |
| 604-129 | MSOutOfStaple- sPolicy | Out of staples policy setting | 0 = Hold 1 = Stapling defeated | 1 |
| 604-131 | Last sheet to recover | Last sheet to recover | Range 0 to 65535 | 0 |
| 604-132 | ProdCfgNvm | ProdCfgNvm | Range 0 to 255 | 255 |
| 604-133 | TotalQuanitity- Made | Total quantity requested for the current job (Read only) | Range 0 to 65535 | 0 |
| 604-134 | ModuleHas- BeenSetUp | Module has been set up | Range 0 to 1 | 0 |
| 604-137 | Propose Count MCSS Finisher | Propose Count MCSS Finisher | Range 2 to 16 | 12 |
| 604-138 | IOT Diag Enter TO SEC | IOT Diag Enter TO SEC | Range = 0 to 1800 | 30 |
| 604-139 | IOT Diag Exit TO SEC | IOT Diag Exit TO SEC | Range = 0 to 1800 | 30 |
| 604-140 | IOT Diag Test Pattern TO SEC | IOT Diag Test Pattern TO SEC | Range = 0 to 1800 | 0 |
| 604-141 | IOT Diag Device Status TO SEC | IOT Diag Device Status TO SEC | Range = 0 to 1800 | 0 |
| 604-142 | IOT Diag Analog Monitor TO SEC | IOT Diag Analog Monitor TO SEC | Range = 0 to 1800 | 0 |
| 604-143 | IOT Diag In Out Manual TO SEC | IOT Diag In Out Manual TO SEC | Range = 0 to 1800 | 0 |
| 604-144 | IOT Diag PP Tim- ing TO SEC | IOT Diag PP Timing TO SEC | Range = 0 to 1800 | 0 |
| 604-145 | IOT Diag MSI Side Guide TO SEC | IOT Diag MSI side guide TO SEC | Range = 0 to 1800 | 0 |
| 604-146 | IOT Diag Sys Regi TO SEC | IOT Diag Sys Regi TO SEC | Range = 0 to 1800 | 0 |
| 604-147 | IOT Diag Reg Setup TO SEC | IOT Diag Reg Setup TO SEC | Range = 0 to 1800 | 0 |
| 604-148 | IOT Diag Reg Check TO SEC | IOT Diag Reg Check TO SEC | Range = 0 to 1800 | 0 |
| 604-149 | IOT Diag Reg Sens Check TO SEC | IOT Diag Reg Sens Check TO SEC | Range = 0 to 1800 | 0 |
| 604-150 | IOT ATC Sensor Setup TO SEC | IOT ATC Sensor Setup TO SEC | Range = 0 to 1800 | 0 |

Table 13 CCS NVM ID 604-001 to 604-220

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|-------------------|---------|
| 604-151 | IOT Diag Belt Edge Learn TO SEC | IOT Diag Belt Edge Learn TO SEC | Range = 0 to 1800 | 0 |
| 604-152 | IOT TRC Adjust TO SEC | IOT TRC Adjust TO SEC | Range = 0 to 1800 | 0 |
| 604-153 | IOT Diag Tone Up Down TO SEC | IOT Diag Tone Up Down TO SEC | Range = 0 to 1800 | 0 |
| 604-154 | IOT Diag No Paper Run TO SEC | IOT Diag No Paper Run TO SEC | Range = 0 to 1800 | 0 |
| 604-155 | IOT Diag ProCon On Off TO SEC | IOT Diag ProCon ON Off TO SEC | Range = 0 to 1800 | 0 |
| 604-156 | IOT Diag Binary Cal TO SEC | IOT Diag Binary Cal TO SEC | Range = 0 to 1800 | 0 |
| 604-157 | IOT Diag Fold Position TO SEC | IOT Diag Fold Position TO SEC | Range = 0 to 1800 | 0 |
| 604-158 | IOT Diag CTRACS TO SEC | IOT Diag CTRACS TO SEC | Range = 0 to 1800 | 0 |
| 604-159 | IOT Diag Comp Ctrl TO SEC | IOT Diag Comp Ctrl TO SEC | Range = 0 to 1800 | 0 |
| 604-160 | CCMCannotCom- municateWith- IOTFC | Fault counter 303-316: CCM Cannot Communicate With IOT FC | Range = 0 to 255 | 0 |
| 604-170 | HxportEntSnrOn- JamFault- CountFC | Fault counter 312-112: Hori- zontal transport Ent Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-171 | BookletInSnrOn- JamFault- CountFC | Fault counter 312-113: Book- let In Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-172 | BookletInSnrOff- JamFault- CountFC | Fault counter 312-114: Book- let In Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-173 | BookletFolder- RollExitSnrOn- JamFC | Fault counter 312-115: Book- let Folder Roll Exit Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-174 | GateSnrOnJam- FaultCountFC | Fault counter 312-125: Gate Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-175 | XportEntSnrOn- JamFault- CountFC | Fault counter 312-132: Xport Ent Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-176 | BufferPathSnrOn- JamFault- CountFC | Fault counter 312-142: Buffer Path Snr On Jam Fault Count | Range = 0 to 255 | 0 |

Table 13 CCS NVM ID 604-001 to 604-220

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 604-177 | CompileExitSn-rOffJamFC | Fault counter 312-151: Compile Exit Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-178 | CompileExitSn- rOnJamFault- CountFC | Fault counter 312-152: Com- pile Exit Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-179 | SetEjectJam- FaultCountFC | Fault counter 312-161: Set Eject Jam Fault Count | Range = 0 to 255 | 0 |
| 604-180 | HxportExitSnrOn- JamFault- CountFC | Fault counter 312-162: Hori- zontal Transport Exit Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-181 | TopTrayExitSn- rOnJamFault- CountFC | Fault counter 312-171: Top Tray Exit Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-182 | TopTrayExitSn- rOffJamFault- CountFC | Fault counter 312-172: Top Tray Exit Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-183 | BookletFolder- RollExitSnrOff- JamFC | Fault counter 312-180: Booklet Folder Roll Exit Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-184 | StackerTrayFail- FaultCountFC | Fault counter 312-211: Stacker Tray Fail Fault Count | Range = 0 to 255 | 0 |
| 604-185 | StackerUpperLim- itFailFC | Fault counter 312-212: Stacker Upper Limit Fail Fault Count | Range = 0 to 255 | 0 |
| 604-186 | StackerLowerLim- itFailFC | Fault counter 312-213: Stacker Lower Limit Fail Fault Count | Range = 0 to 255 | 0 |
| 604-187 | FrontTamper- HomeSnrOn- FailFC | Fault counter 312-221: Front Tamper Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-188 | FrontTamper- HomeSnrOff- FailFC | Fault counter 312-223: Front Tamper Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-189 | RearTamper- HomeSnrOff- FailFC | Fault counter 312-224: Rear Tamper Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-190 | BookletTamperF- HomeSnrOn- FailFC | Fault counter 312-225: Booklet Tamper F Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-191 | BookletTamperF- HomeSnrOff- FailFC | Fault counter 312-226: Booklet Tamper F Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-192 | BookletEndGui- deHomeSnrOff- FailFC | Fault counter 312-227: Booklet End Guide Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 604-193 | BookletEndGui- deHomeSnrOn- FailFC | Fault counter 312-228: Booklet End Guide Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-194 | BookletTamper- RHomeSnrOn- FailFC | Fault counter 312-229: Booklet Tamper R Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-195 | BookletTamper- RHomeSnrOff- FailFC | Fault counter 312-230: Booklet Tamper R Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-196 | BookletKnife- HomeSnrOn- FailFC | Fault counter 312-243: Booklet Knife Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-197 | BookletStapler- FailCountFC | Fault counter 312-246: Booklet Stapler Fail Count | Range = 0 to 255 | 0 |
| 604-198 | SideRegiSnrOff- FailFaultCountFC | Fault counter 312-247: Side Regi Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-199 | EjectClam- pHomeSnrOn- FailFC | Fault counter 312-260: Eject Clamp Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-200 | BookletKnifeFold- ingSnrFailFC | Fault counter 312-261: Booklet Knife Folding Snr Fail Fault Count | Range = 0 to 255 | 0 |
| 604-201 | RearTsmper- HomeSnrOn- FailFC | Fault counter 312-263: Rear Tamper Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-202 | BookletDrawer- BrokenFailFC | Fault counter 312-264: Booklet Drawer Broken Fail Fault Count | Range = 0 to 255 | 0 |
| 604-203 | BookletKnife- HomeSnrOff- FailFC | Fault counter 312-265: Booklet Knife Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-204 | BookletCompiler- NoPaperSnr- FailFC | Fault counter 312-266: Booklet Compiler No Paper Snr Fail Fault Count | Range = 0 to 255 | 0 |
| 604-205 | TopOffsetHome- SnrOnFail- CountFC | Fault counter 312-270: Top Offset Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-206 | TopOffsetHome- SnrOffFail- CountFC | Fault counter 312-271: Top Offset Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-207 | EjectClam- pHomeSnrOff- FailFC | Fault counter 312-282: Eject Clamp Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-208 | SetClampHome- SnrOnFailFC | Fault counter 312-283: Set Clamp Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 604-209 | SetClampHome- SnrOffFC | Fault counter 312-284: Set Clamp Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-210 | StapleFail- CountFC | Fault counter 312-291: Staple Fail Fault Count | Range = 0 to 255 | 0 |
| 604-211 | StaplerMovePositionSnrOnFailFC | Fault counter 312-295: Stapler Move Position Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-212 | StaplerMovePositionSnrOffFailFC | Fault counter 312-296: Stapler Move Position Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-213 | PunchHomeSn- rOnFailFault- CountFC | Fault counter 312-320: Punch Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-214 | PunchHomeSn- rOffFailFault- CountFC | Fault counter 312-321: Punch Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-215 | PuncherMove- HomeSnrOff- FailFC | Fault counter 312-322: Puncher Move Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-216 | PuncherMove- HomeSnrOn- FailFC | Fault counter 312-323: Puncher Move Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-217 | DeculerHomeSn- rOffFailFC | Fault counter 312-330: Decurler Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-218 | DecurlerHomeSn-rOnFailFC | Fault counter 312-332: Decurler Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-219 | FinisherDown- LoadFailCountFC | Fault counter 312-334: Fin- isher Down Load Fail Fault Count | Range = 0 to 255 | 0 |
| 604-220 | BookletSubCpu- CommFailFC | Fault counter 312-335: Booklet Sub Cpu Comm Fail Fault Count | Range = 0 to 255 | 0 |

Table 14 CCS NVM ID 604-241 to 604-999

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|---|------------------|---------|
| 604-241 | OctOffsetFail- CountFC | Fault counter 312-701: OCT Offset Fail Fault Count | Range = 0 to 255 | 0 |
| 604-361 | DFinDeculerInSn-rOnJamFC | Fault counter 312-100: DFin Deculer In Snr On Jam Fault Count | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 604-362 | DFinDeculerOut- SnrOnJamFC | Fault counter 312-101: DFin Deculer Out Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-363 | DFinPunchOut- SnrOnJamFC | Fault counter 312-102: DFin Punch Out Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-364 | DFinPunchOut- SnrOffJamFC | Fault counter 312-103: DFin Punch Out Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-365 | DFinInterpose- FeedOutSnrOn- JamFC | Fault counter 312-104: DFin Interpose Feed Out Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-366 | DFinFolderPathS nr3OffJamFC | Fault counter 312-108: DFin Folder Path Snr 3 Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-367 | DFinInterposer- FeedOutSnrOff- JamFC | Fault counter 312-109: DFin Interposer Feed Out Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-368 | DFinFolderEx- itSnrOnJamFC | Fault counter 312-117: DFin Folder Exit Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-369 | DFinFolderPathS nr2OnJamFC | Fault counter 312-118: DFin Folder Path Snr 2 On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-370 | DFinFolderPathS nr3OnJamFC | Fault counter 312-119: DFin Folder Path Snr 3 On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-371 | DFinFolderPathS nr4OnJamFC | Fault counter 312-120: DFin Folder Path Snr 4 On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-372 | DFinBufferPath- SnrOffJamFC | Fault counter 312-141: DFin Buffer Path Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-373 | DFinEjectSnrOn- JamFC | Fault counter 312-159: DFin Eject Snr On Jam Fault Count | Range = 0 to 255 | 0 |
| 604-374 | DFinEjectSnrOff- JamFC | Fault counter 312-160: DFin Eject Snr Off Jam Fault Count | Range = 0 to 255 | 0 |
| 604-375 | DFinEndWall- HomeSnrOff- FailFC | Fault counter 312-214: DFin End Wall Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-376 | DFinEndWal- IOpenSnrOn- FailFC | Fault counter 312-215: DFin End Wall Open Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-377 | DFinEndWall- HomeSnrOn- FailFC | Fault counter 312-216: DFin End Wall Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 604-378 | DFinEndWal- IOpenSnrOff- FailFC | Fault counter 312-217: DFin End Wall Open Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-379 | DFinShelfHome- SnrOnFailFC | Fault counter 312-218: DFin Shelf Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-380 | DFinShelfHome- SnrOffFailFC | Fault counter 312-219: DFin Shelf Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-381 | DFinStapleMove- HomeSnrOff- FailFC | Fault counter 312-235: DFin Staple Move Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-382 | DFinStapleMove- HomeSnrOn- FailFC | Fault counter 312-236: DFin Staple Move Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-383 | DFinStapleCenterPositionSn-rOnFC | Fault counter 312-237: DFin Staple Center Position Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-384 | DFinStapleCen- terPositionSn- rOffFC | Fault counter 312-238: DFin Staple Center Position Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-385 | DFinSubPaddle- HomeSnrOn- FailFC | Fault counter 312-239: DFin Sub Paddle Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-386 | DFinSubPaddle- HomeSnrOff- FailFC | Fault counter 312-240: DFin Sub Paddle Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-387 | DFinBooklet- KnifeFoldingSnr- FailFC | Fault counter 312-241: DFin Booklet Knife Folding Snr Fail Fault Count | Range = 0 to 255 | 0 |
| 604-388 | DFinCom- pileStackTrayOff- setFailFC | Fault counter 312-248: DFin Compile Stacker Tray Offset Fail Fault Count | Range = 0 to 255 | 0 |
| 604-389 | DFinEndGuideMo t1StartFailFC | Fault counter 312-250: DFin End Guide Mot 1 Start Fail Fault Count | Range = 0 to 255 | 0 |
| 604-390 | DFinEndGuideMo t2StartFailFC | Fault counter 312-251: DFin End Guide Mot 2 Start Fail Fault Count | Range = 0 to 255 | 0 |
| 604-391 | DFinEndGuideMo t1HomeFailFC | Fault counter 312-252: DFin End Guide Mot 1 Home Fail Fault Count | Range = 0 to 255 | 0 |
| 604-392 | DFinEndGuideMo t2HomeFailFC | Fault counter 312-253: DFin End Guide Mot 2 Home Fail Fault Count | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|--------------------|---------|
| 604-393 | DFinEnvelope- FolderTrayBro- kenFC | Fault counter 312-254: DFin Envelope Folder Tray Broken Fault Count | Range = 0 to 255 | 0 |
| 604-394 | DFinInterposerTr- ayUpFailFC | Fault counter 312-255: DFin Interposer Tray Up Fail Fault Count | Range = 0 to 255 | 0 |
| 604-395 | DFinSideRegi- HomeSnrOff- FailFC | Fault counter 312-324: DFin Side Regi Home Snr Off Fail Fault Count | Range = 0 to 255 | 0 |
| 604-396 | DFinSideRegi- HomeSnrOn- FailFC | Fault counter 312-325: DFin Side Regi Home Snr On Fail Fault Count | Range = 0 to 255 | 0 |
| 604-415 | MSDefaultPrint- Bin | Number of bins | Range = 0 to 5 | 4 |
| 604-416 | MSDefaultCopy- Bin | MS Default copy bin | Range = 0 to 5 | 4 |
| 604-417 | MSDefaultFaxBin | Number of bins | Range = 0 to 5 | 0 |
| 604-418 | MSDefault- OtherBin | Number of bins | Range = 0 to 5 | 4 |
| 604-419 | MSAutoHoldEn- able | Enable auto hold settings | 0 = Off 1 = On | 1 |
| 604-420 | InteruptingJobID- ToRecover | Interrupt job to recover number of jobs (Read only) | Range = 0 to 65535 | 0 |
| 604-421 | Not displayed | Interrupt document to recover number of documents | Range = 0 to 65535 | 0 |
| 604-422 | InteruptImage- IDToRecover | Interrupt image to recover number of images | Range = 0 to 65535 | 0 |
| 604-423 | InteruptPag- esCompleted | Interrupt pages completed (Read only) | Range = 0 to 65535 | 0 |
| 604-424 | Interupting- SetsCompleted | Interrupt set to recover number of sets. (Read only) | Range = 0 to 65535 | 0 |
| 604-425 | InteruptingLast- ServiceID | Interrupt service to recover number of services. (Read only) | Range = 0 to 65535 | 0 |
| 604-426 | QtyToRecover; | Interrupt quantity to recover | Range = 0 to 65535 | 0 |
| 604-427 | lastSheetToRe- cover | Interrupt last sheet to recover | Range = 0 to 65535 | 0 |
| 604-428 | MSMediaSize- ConvPolicy | Media Size Conversion Policy Settings | 0 = Off 1 = On | 1 |
| 604-429 | LastFinishing- CapIDToRecover | Used to ensure sheets are delivered to the correct tray after crash recovery. (Read only) | Range = 0 to 65535 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|--|---------|
| 604-430 | LastIntFinishing- CapIDToRecover | Used to ensure sheets are delivered to the correct tray after crash recovery. (Read only) | Range = 0 to 65535 | 0 |
| 604-431 | InteruptingQuanti- tyMade | Interrupting quantity made. (Read only) | Range = 0 to 65535 | 0 |
| 604-432 | MSInvertDuplex | - | Range = 0 to 1 | 0 |
| 604-433 | MSMirrorInvert- Duplex | - | Range = 0 to 1 | 0 |
| 604-434 | Total Color Images Display- able | - | Range = 0 to 1 | 0 |
| 604-435 | Total BW and Color Images Dis- play | Total BW and Color Images Displayable | Range = 0 to 1 | 0 |
| 604-437 | Not displayed | MarkedBWColorImages | Range = 0 to 16777215 | 0 |
| 604-442 | MSMediaSize- Group | Media Order Group | 1 = MSGXc 2 = MSGXe 3 = MSGFx 4 = MSGFxap 5 = MSGGco 6 = MSGDmoEast 7 = MSGDmoWest | 1 |
| 604-443 | MSMediaSizeCon vPolicy85x14 | Media size conversion policy 8.5 x 14 inch to larger size | 0 = Off 1 = On | 1 |
| 604-833 | PaddleHomeFC | Fault counter 312-024: Paddle Home Fault | Range = 0 to 255 | 0 |
| 604-834 | PaddleMoveFC | Fault counter 312-025: Paddle Move Fault | Range = 0 to 255 | 0 |
| 604-835 | PunchMotor- MoveFC | Fault counter 312-043: Hole Punch Motor Move Fault | Range = 0 to 255 | 0 |
| 604-836 | PunchHead- HomeFC | Fault counter 312-044: Hole Punch Head Home Fault | Range = 0 to 255 | 0 |
| 604-837 | PunchHead- MoveFC | Fault counter 312-045: Hole Punch Head Move Fault | Range = 0 to 255 | 0 |
| 604-838 | PunchMotor- HomeFC | Fault counter 312-046: Hole Punch Motor Home Fault | Range = 0 to 255 | 0 |
| 604-839 | PunchUnit- MoveFC | Fault counter 312-047: Punch Unit Move Fault | Range = 0 to 255 | 0 |
| 604-840 | InserterBottPltH- omeFC | Fault counter 312-056: Inserter Bottom Plate Home Fault | Range = 0 to 255 | 0 |
| 604-841 | InserterBot- tPltLiftFC | Fault counter 312-057: Inserter Bottom Plate Lift Fault | Range = 0 to 255 | 0 |

Table 14 CCS NVM ID 604-241 to 604-999

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|--|------------------|---------|
| 604-842 | CreaseBladeMov- eFFC | Fault counter 312-061: Crease Blade Move Fault. | Range = 0 to 255 | 0 |
| 604-843 | CreaseRollMotor- FailFC | Fault counter 312-062: Crease Roll Motor Failed | Range = 0 to 255 | 0 |
| 604-844 | BMStapler- MoveFC | Fault counter 312-063: Booklet Maker Stapler Move Fault | | 0 |
| 604-845 | BackStopMotor- MoveFC | Fault counter 312-065: Back Stop Motor Move Fault | Range = 0 to 255 | 0 |
| 604-846 | TampermoveFC | Fault counter 312-066: Tamper Move Fault | Range = 0 to 255 | 0 |
| 604-847 | PaperPushMotor- StalledFC | Fault counter 312-083: Paper Pusher Motor Stalled | Range = 0 to 255 | 0 |
| 604-848 | EntSnsOfJamFC | Fault counter 312-126: Entrance Sensor OFF Jam | Range = 0 to 255 | 0 |
| 604-849 | PunchSnrOn- JamFC | Fault counter 312-127: Punch Sensor ON Jam | Range = 0 to 255 | 0 |
| 604-850 | BuffPointSnsOn- JamFC | Fault counter 312-157: Buffer Point Sensor ON Jam | Range = 0 to 255 | 0 |
| 604-851 | BuffPointSnsOff- JamFC | Fault counter 312-158: Buffer Point Sensor OFF Jam | Range = 0 to 255 | 0 |
| 604-852 | BookletCompExit- SenOffJamFC | Fault counter 312-166: Booklet Compiler Exit Sensor OFF Jam | Range = 0 to 255 | 0 |
| 604-853 | BMExitSnrOn- JamFC | Fault counter 312-181: Booklet Maker Exit Sensor ON Jam | Range = 0 to 255 | 0 |
| 604-854 | BMExitSnrOff- JamFC | Fault counter 312-182: Booklet Maker Exit Sensor OFF Jam | Range = 0 to 255 | 0 |
| 604-855 | BMUnexpected- SheetFC | Fault counter 312-183: Booklet Maker Unexpected Sheet | Range = 0 to 255 | 0 |
| 604-856 | BMStraySheetFC | Fault counter 312-184: Booklet Maker Stray Sheet | Range = 0 to 255 | 0 |
| 604-857 | TrifoldExitSnrOn- JFC | Fault counter 312-185: Trifold Exit Sensor ON Jam | Range = 0 to 255 | 0 |
| 604-858 | TrifoldExitSn- rOffJFC | Fault counter 312-186: Trifold Exit Sensor OFF Jam | Range = 0 to 255 | 0 |
| 604-859 | TrifoldAssistSn- rOnJFC | Fault counter 312-187: Trifold Assist Sensor ON Jam | Range = 0 to 255 | 0 |
| 604-860 | LELateBBEntryS- nrFC | Fault counter 312-190: Sheet late to BB entry sensor | Range = 0 to 255 | 0 |
| 604-861 | LELatetoInserter- TabStandbySFC | Fault counter 312-191: Lead edge late to Inserter Tab Standby Sensor | Range = 0 to 255 | 0 |
| 604-862 | TELatefromBBen- trySFC | Fault counter 312-192: Sheet late from BB entry sensor | Range = 0 to 255 | 0 |

Table 14 CCS NVM ID 604-241 to 604-999

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|------------------|---------|
| 604-863 | TELateInserterT- abSnrFC | Fault counter 312-193: Trail edge late from Inserter Tab Standby Sensor | Range = 0 to 255 | 0 |
| 604-864 | Leadedgelateto- InserterPick- UpSFC | Fault counter 312-194: Lead edge late to Inserter Pick Up Sensor | Range = 0 to 255 | 0 |
| 604-865 | TELatefromIn- serterPickUpSFC | Fault counter 312-196: Trail edge late from Inserter Tray Pick Up Sensor | Range = 0 to 255 | 0 |
| 604-866 | FinStraySheetFC | Fault counter 312-198: Stray sheet is detected after jam clearance | Range = 0 to 255 | 0 |
| 604-867 | Unexpected- SheetatFinEntFC | Fault counter 312-199: Unexpected Sheet at Finisher Entry | Range = 0 to 255 | 0 |
| 604-868 | OffsetUnitInitFC | Fault counter 312-273: Offset Unit Init Fault | Range = 0 to 255 | 0 |
| 604-869 | OffsetUnitH- omeFC | Fault counter 312-274: Offset Unit Home Fault | Range = 0 to 255 | 0 |
| 604-870 | OffsetUnitH- omeMvFC | Fault counter 312-275: Offset Unit Home Move Fault | Range = 0 to 255 | 0 |
| 604-871 | OffsetUnitAway- HomeFC | Fault counter 312-276: Offset Unit Away Home Fault | Range = 0 to 255 | 0 |
| 604-872 | OffsetUnitAway- HomeMvFC | Fault counter 312-277: Offset Unit Away Home Move Fault | Range = 0 to 255 | 0 |
| 604-873 | NipSplitFC | Fault counter 312-288: Nip Split Failure | Range = 0 to 255 | 0 |
| 604-874 | NipHomeFC | Fault counter 312-289: Nip Home Failure | Range = 0 to 255 | 0 |
| 604-875 | FinUndockedDur- ingRFC | Fault counter 312-310: Finisher Undocked During Run | Range = 0 to 255 | 0 |
| 604-876 | TopCoverOpenin- RFC | Fault counter 312-312: Top Cover Open in Run | Range = 0 to 255 | 0 |
| 604-877 | FinDoorOpenIn- RFC | Fault counter 312-313: Fin- isher Door Open In Run | Range = 0 to 255 | 0 |
| 604-878 | InserterTopCov- erOpenInRFC | Fault counter 312-316: Inserter Top Cover Open In Run | Range = 0 to 255 | 0 |
| 604-879 | TrifoldCoverO- penInRFC | Fault counter 312-317: Trifold Cover Open In Run | Range = 0 to 255 | 0 |
| 604-880 | TrifoldFDoorO- penInRFC | Fault counter 312-318: Trifold Front Door Open In Run | Range = 0 to 255 | 0 |
| 604-881 | InserterHand- DoorOpenInrFC | Fault counter 312-319: Inserter Hand Door Open In run | Range = 0 to 255 | 0 |
| 604-882 | CompHomeFC | Fault counter 312-340: Compiler Home Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|---|------------------|---------|
| 604-883 | CompOutFC | Fault counter 312-341: Compiler Out Fault | Range = 0 to 255 | 0 |
| 604-884 | CompMvFC | Fault counter 312-342: Compiler Move Fault | Range = 0 to 255 | 0 |
| 604-885 | StapleMvFC | Fault counter 312-371: Stapler Move Fault | Range = 0 to 255 | 0 |
| 604-886 | StapleHomeFC | Fault counter 312-372: Stapler Home Fault | Range = 0 to 255 | 0 |
| 604-887 | StapleMiddle- HomeFC | Fault counter 312-373: Stapler Middle Home Fault | Range = 0 to 255 | 0 |
| 604-888 | StapleMiddleM- vFC | Fault counter 312-374: Stapler Middle Move Fault | Range = 0 to 255 | 0 |
| 604-889 | Staple- JawHomeFC | Fault counter 312-375: Stapler Jaw Home Fault | Range = 0 to 255 | 0 |
| 604-890 | StapleJawMvFC | Fault counter 312-376: Stapler Jaw Move Fault | Range = 0 to 255 | 0 |
| 604-891 | StaplePrimingFC | Fault counter 312-377: Stapler Priming Fault | Range = 0 to 255 | 0 |
| 604-892 | LCSSStapleIn- dexFC | Fault counter 312-378: LCSS Stapler index Fault | Range = 0 to 255 | 0 |
| 604-893 | Pun- chUnitSideEdge- DetectFC | Fault counter 312-380: Punch Unit Side Edge Detect Fault | Range = 0 to 255 | 0 |
| 604-894 | BackStopHom- eFFC | Fault counter 312-383: Back Stop Home Fault. | Range = 0 to 255 | 0 |
| 604-895 | TampHomeFC | Fault counter 312-384: Tamper Home Fault | Range = 0 to 255 | 0 |
| 604-896 | FTampMvFC | Fault counter 312-392: Front Tamper Move Fault | Range = 0 to 255 | 0 |
| 604-897 | FTampHomeFC | Fault counter 312-393: Front Tamper Home Fault | Range = 0 to 255 | 0 |
| 604-898 | FTampAway- FromHomeFC | Fault counter 312-394: Front Tamper Away From Home Fault | Range = 0 to 255 | 0 |
| 604-899 | FTampAway- FromHomeMvFC | Fault counter 312-395: Front Tamper Away From Home Move Fault | Range = 0 to 255 | 0 |
| 604-900 | RTampMvFC | Fault counter 312-396: Rear Tamper Move Fault | Range = 0 to 255 | 0 |
| 604-901 | RTampHomeFC | Fault counter 312-397: Rear Tamper Home Fault | Range = 0 to 255 | 0 |
| 604-902 | RTampAway- FromHomeMvFC | Fault counter 312-398: Rear Tamper Away From Home Move Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|--|------------------|---------|
| 604-903 | RTampAway- FromHomeFC | Fault counter 312-399: Rear Tamper Away From Home Fault | Range = 0 to 255 | 0 |
| 604-904 | BMStapleHead2 MvFC | Fault counter 312-403: Booklet Staple Head 2 Move Fault | Range = 0 to 255 | 0 |
| 604-905 | BMStaple- HomeFC | Fault counter 312-411: Booklet Stapler Home Fault | Range = 0 to 255 | 0 |
| 604-906 | BMStapleHead2H omeFC | Fault counter 312-413: Booklet Staple Head 2 Home Fault | Range = 0 to 255 | 0 |
| 604-907 | BMStapleNotH- omeForInFC | Fault counter 312-414: Booklet Stapler Not Home For Init | Range = 0 to 255 | 0 |
| 604-908 | RollGateHomeFC | Fault counter 312-415: Roll Gate Home Fault | Range = 0 to 255 | 0 |
| 604-909 | CreaseBlade- HomeFC | Fault counter 312-416: Crease Blade Home Fault | Range = 0 to 255 | 0 |
| 604-910 | BMFlapper- HomeFC | Fault counter 312-417: Booklet Maker Flapper Home Fault | Range = 0 to 255 | 0 |
| 604-911 | BMFlappermvFC | Fault counter 312-418: Booklet Maker Flapper Move Fault | Range = 0 to 255 | 0 |
| 604-912 | BMTamp2HomeF C | Fault counter 312-419: Booklet Maker Tamper 2 Home Fault | Range = 0 to 255 | 0 |
| 604-913 | BMTamp2MvFC | Fault counter 312-420: Booklet Maker Tamper 2 Move Fault | Range = 0 to 255 | 0 |
| 604-914 | PapPush- HomeFC | Fault counter 312-440: Paper Pusher Home Fault | Range = 0 to 255 | 0 |
| 604-915 | PapPushHomeM- vFC | Fault counter 312-441: Paper Pusher Home Move Fault | Range = 0 to 255 | 0 |
| 604-916 | PapPushAway- HomeFC | Fault counter 312-442: Paper Pusher Away Home Fault | Range = 0 to 255 | 0 |
| 604-917 | PapPushAway- HomeMvFC | Fault counter 312-443: Paper Pusher Away Home Move Fault | Range = 0 to 255 | 0 |
| 604-918 | EjectModMotor- StallFC | Fault counter 312-450: Ejector Module Motor Stall | Range = 0 to 255 | 0 |
| 604-919 | EjectPlateMotor- StallFC | Fault counter 312-451: Ejector Plate Motor Stall | Range = 0 to 255 | 0 |
| 604-920 | EjectPlate- HomeFC | Fault counter 312-452: Ejector Plate Home Fault | Range = 0 to 255 | 0 |
| 604-921 | EjectPlateMvFC | Fault counter 312-453: Ejector Plate Move Fault | Range = 0 to 255 | 0 |
| 604-922 | LwrPaddHomeFC | Fault counter 312-454: Lower Paddle Home Fault | Range = 0 to 255 | 0 |
| 604-923 | LwrPaddMvFC | Fault counter 312-455: Lower Paddle Move Fault | Range = 0 to 255 | 0 |

Table 14 CCS NVM ID 604-241 to 604-999

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 604-924 | EjectMod- HomeFC | Fault counter 312-456: Ejector Module Home Fault | Range = 0 to 255 | 0 |
| 604-925 | vFC | odHomeM- Fault counter 312-457: Ejector Range = 0 to 255 Module Home Move Fault | | 0 |
| 604-926 | EjectModOut- PosFC | Fault counter 312-458: Ejector Module Out Position Fault | Range = 0 to 255 | 0 |
| 604-927 | EjectModOut- PosMvFC | Fault counter 312-459: Ejector Module Out Position Move Fault | Range = 0 to 255 | 0 |
| 604-928 | StackBin1MotorSt allFC | Fault counter 312-460: Stacker Bin 1 Motor Stall | Range = 0 to 255 | 0 |
| 604-929 | StackBin1LevelF C | Fault counter 312-461: Stacker Bin 1 Level Fault | Range = 0 to 255 | 0 |
| 604-930 | StackBin1Elevato rFC | Fault counter 312-462: Stacker Bin 1 Elevator Failure | Range = 0 to 255 | 0 |
| 604-931 | BMPwrNotPre- sentFC | Fault counter 312-463: Booklet Maker Power Not Present Fault | Range = 0 to 255 | 0 |
| 604-932 | BMPwrFC | Fault counter 312-464: Booklet Maker Power Fault | Range = 0 to 255 | 0 |
| 604-933 | PaddUpprPosFC | Fault counter 312-465: Paddle Upper Position Fault | Range = 0 to 255 | 0 |
| 604-934 | PaddUpprPosM- vFC | Fault counter 312-466: Paddle Upper Position Move Fault | Range = 0 to 255 | 0 |
| 604-935 | PaddLwrPosFC | Fault counter 312-467: Paddle Lower Position Fault | Range = 0 to 255 | 0 |
| 604-936 | PaddLwrPosM- vFC | Fault counter 312-468: Paddle Lower Position Move Fault | Range = 0 to 255 | 0 |
| 604-937 | CurlSup- prHomeFC | Fault counter 312-469: Curl Suppressor Home Fault | Range = 0 to 255 | 0 |
| 604-938 | CurlSupprMvFC | Fault counter 312-470: Curl Suppressor Move Fault | Range = 0 to 255 | 0 |
| 604-939 | CurlSupprAway- PosFC | Fault counter 312-471: Curl Suppressor Away Position Fault | Range = 0 to 255 | 0 |
| 604-940 | CurlSupprAway- PosMvFC | Fault counter 312-472: Curl Suppressor Away Position Move Fault | Range = 0 to 255 | 0 |
| 604-941 | PressMotorInitFC | Fault counter 312-473: Pressing Motor Init Fault | Range = 0 to 255 | 0 |
| 604-942 | PressMotorInitM- Fault counter 312-474: Press- Range = vFC ing Motor Init Move Fault | | Range = 0 to 255 | 0 |
| 604-943 | PressMotor- HomeFC | Fault counter 312-475: Pressing Motor Home Fault | Range = 0 to 255 | 0 |

Table 14 CCS NVM ID 604-241 to 604-999

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|---|---------------------------------|---------|
| 604-944 | PressMotor- HomeMvFC | Fault counter 312-476: Pressing Motor Home Move Fault | Range = 0 to 255 | 0 |
| 604-946 | PressMtrOut- PosMvFC | Fault counter 312-478: Pressing Motor Out Position Move Fault | Range = 0 to 255 | 0 |
| 604-947 | InsSht- TooShortFC | Fault counter 312-479: Insert Sheet Too Short | Range = 0 to 255 | 0 |
| 604-979 | HolePunchCon- figuration | Finisher Hole Punch Configuration | Range = 0 to 3 | 0 |
| 604-980 | ImeFinComms- FailFC | Fault counter 312-762-00: Cannot communicate with finisher. | Range = 0 to 255 | 0 |
| 604-981 | ImeFinMissingFC | Fault counter 312-764-00: Finisher is not present. | Range = 0 to 255 | 0 |
| 604-982 | Total Large Marked Images Disp | Enable Display of Large Marked Images Counter | 0 = No Display 1 = Displayed | 1 |
| 604-983 | Total Large Blk Marked Imgs Disp | Enable Display of Large Black Marked Images Counter | 0 = No Display 1 = Displayed | 1 |
| 604-995 | FINISHERCDI- COMMSFAILFC | Fault counter 312-492-00: CDI communications failure with finisher. | Range = 0 to 255 | 0 |
| 604-996 | FINISHERFAIL- CYCLEUPFC | Fault counter 312-493-00: Finisher failure to Cycle Up in time | Range = 0 to 255 | 0 |
| 604-997 | FINISHERFAIL- PREPTIMEFC | Fault counter 312-494-00: Finisher failure to return prep time | Range = 0 to 3 | 0 |
| 604-998 | DfFnlinkLate- ToEntry | Fault counter 312-100-00: Finisher Late to Entry Sensor | Range = 0 to 255 | 0 |
| 604-999 | DfFnlinkLateIme- Exit | Fault counter 312-102-00: Late IME Exit | Range = 0 to 255 | 0 |
| | • | | • | • |

Table 15 CCS NVM ID 605-001 to 605-036

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|----------------------------------|---------|
| 605-001 | NextPrintJobID | Value of next MFPrint job's id. (Read only) | Range = 0 to 999 | 1 |
| 605-002 | PrintCrashRecov- eryEnable | Enable Print Job Recovery Settings | 0 = No Recovery 1 = Recovered | 1 |
| 605-003 | MFPrintComplet- edJob Log Loca- tion | This holds the crash recovery print job information on the altanta side. | Range = 0 to 12 | 0 |
| 605-006 | MFPRINT- MarkedImages- Displayable | Enable Option to export marked image counter information to clients | 0 = No export 1 = Exported | 1 |

Table 15 CCS NVM ID 605-001 to 605-036

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|-------------------------------|---------|
| 605-008 | MFPRINTSheets- Displayable | Enable Option to export marked image counter information to clients | 0 = No export 1 = Exported | 0 |
| 605-010 | MFPRINTDuplex- SheetsDisplay- able | Enable Option to export Duplexed counter information to clients | 0 = No export 1 = Exported | 0 |
| 605-012 | MFPRINT- LargeSheetsDis- playable | Enable Option to export Large Sheet counter information to clients | 0 = No export 1 = Exported | 0 |
| 605-013 | disturbance time | Maximum time allowed for ESS to resync before deleting orphaned print jobs | Range 0 to 240 | 12 |
| 605-020 | MFPSuc- cessImgRecServ- erFaxDisplay | Counter | Range 0 to 1 | 0 |
| 605-021 | MFPSuccessI- FaxImagesR- ecDisplay | Enable Option to export Large Success Ifax images counter information to clients | 0 = No export 1 = Exported | 0 |
| 605-036 | BlackReprintIm- agesDisp | Black reprint image counter displayable | Range = 0 to 1 | 0 |

Table 16 CCS NVM ID 606-001 to 606-269

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------|-------------------|------------------------------|----------|
| 606-001 | Tray 1 | Tray 1 Media Type | 0 = Standard | 0 |
| | Media Type | | 1 = Drilled | |
| | | | 3 = Envelope | |
| | | | 4 = Transparency | |
| | | | 5 = Letterhead | |
| | | | 6 = Labels | |
| | | | 7 = Recycled | |
| | | | 9 = Other Type | |
| | | | 12 = Bond | |
| | | | 13 = Pre-Printed | |
| | | | 14 = Card Stock | |
| | | | 15 = Custom 1 | |
| | | | 16 = Custom 2 | |
| | | | 17 = Custom 3 | |
| | | | 19 = Custom 4 | |
| | | | 20 = Custom 5 | |
| | | | 21 = Custom 6 | |
| | | | 22 = Custom 7 | |
| | | | 18 = Unspecified | |
| | | | 23 = System Default | |
| | | | 37 = Precut Tabs | |
| | | | 38 = Covers | |
| | | | 39 = Tabs | |
| | | | 40 = Paper Backed Transpar- | |
| | | | ency | |
| | | | 41 = Thin | |
| | | | 42 = Light Card Stock | |
| | | | 43 = Light Glossy | |
| | | | 44 = Heavy Glossy | |
| | | | 45 = Light Card Stock Side 2 | |
| | | | 46 = Light Glossy Side 2 | |
| | | | 47 = Heavy Glossy Side 2 | |
| | | | 48 = Card Stock Side 2 | |
| | | | 49 = Heavy Labels | |
| | | | 50 = Heavy Labels | |
| | | | 51 = Heavy Precut Tabs | |
| | | | 52 = Heavy Card Stock | |
| | | | 53 = Heavy Card Stock Side | |
| | | | 2 | |
| | | | 54 = Extra Heavy Glossy | |
| | | | 55 = Extra Heavy Glossy | |
| | | | Side 2 | |
| | | | 56 = Extra Heavy Labels | |
| | | | 57 = Used Standard | |
| | | | 58 = Rough Stock | |
| | | | 59 = Photo | |
| | | | 60 = Postcard | |
| | l | | l . | <u> </u> |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-002 | Tray 1 Media Color | Tray 1 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 7 21 = System Default | 0 |
| 606-003 | Tray 1 Media Weight | Tray 1 Media Weight | Range = 60 to 216 | 75 |
| 606-004 | Tray 1 Direct Select | Tray 1 Direct Select | 0 = TS Direct Only 1 = TS Direct and Auto | 1 |
| 606-005 | Tray 1 Pri- ority | Tray 1 Priority | Range = 0 to 99 | 30 |
| 606-006 | Tray 1 Width | Tray 1 Width in mm | Range = 182 to 432 | 216 |
| 606-007 | Tray 1 Length | Tray 1 Length in mm | Range = 210 to 297 | 279 |
| 606-008 | Tray 1 Per- cent Full | Tray 1 Percent Full | Range = 0 to 100 | 0 |
| 606-009 | Tray 1 User Type | Tray 1 User Type | 0 = TA Fixed 1 = TA AdjustableAll 2 = TA Adjustable Size Only | 1 |
| 606-010 | Tray 1 Modulus | Tray 1 Modulus | Range = 0 to 100 | 0 |
| 606-011 | Tray 1 Modulus Position | Tray 1 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------|-------------------|------------------------------|----------|
| 606-021 | Tray 2 | Tray 2 Media Type | 0 = Standard | 0 |
| | Media Type | | 1 = Drilled | |
| | | | 3 = Envelope | |
| | | | 4 = Transparency | |
| | | | 5 = Letterhead | |
| | | | 6 = Labels | |
| | | | 7 = Recycled | |
| | | | 9 = Other Type | |
| | | | 12 = Bond | |
| | | | 13 = Pre Printed | |
| | | | 14 = Card Stock | |
| | | | 15 = Custom 1 | |
| | | | 16 = Custom 2 | |
| | | | 17 = Custom 3 | |
| | | | 18 = Unspecified | |
| | | | 19 = Custom 4 | |
| | | | 20 = Custom 5 | |
| | | | 21 = Custom 6 | |
| | | | 22 = Custom 7 | |
| | | | 23 = System Default | |
| | | | 37 = Precut Tabs | |
| | | | 38 = Covers | |
| | | | 39 = Tabs | |
| | | | 40 = Paper Backed Transpar- | |
| | | | ency | |
| | | | 41 = Thin | |
| | | | 42 = Light Card Stock | |
| | | | 43 = Light Glossy | |
| | | | 44 = Heavy Glossy | |
| | | | 45 = Light Card Stock Side 2 | |
| | | | 46 = Light Glossy Side 2 | |
| | | | 47 = Heavy Glossy Side 2 | |
| | | | 48 = Card Stock Side 2 | |
| | | | 49 = Thin Side 2 | |
| | | | 50 = Heavy Labels | |
| | | | 51 = Heavy Precut Tabs | |
| | | | 52 = Heavy Card Stock | |
| | | | 53 = Heavy Card Stock Side | |
| | | | 2 | |
| | | | 54 = Extra Heavy Glossy | |
| | | | 55 = Extra Heavy Glossy | |
| | | | Side 2 | |
| | | | 56 = Extra Heavy Labels | |
| | | | 57 = Used Standard | |
| | | | 58 = Rough Stock | |
| | | | 59 = Photo | |
| | | | 60 = Postcard | |
| | | | l | <u> </u> |

Table 16 CCS NVM ID 606-001 to 606-269

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-022 | Tray 2 Media Color | Tray 2 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other/Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-023 | Tray 2 Media Weight | Tray 2 Media Weight | Range = 60 to 216 | 75 |
| 606-024 | Tray 2 Direct Select | Tray 2 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-025 | Tray 2 Pri- ority | Tray 2 Priority | Range = 0 to 99 | 50 |
| 606-026 | Tray 2 Width | Tray 2 Width in mm | Range = 98 to 432 | 216 |
| 606-027 | Tray 2 Length | Tray 2 Length in mm | Range = 140 to 297 | 279 |
| 606-028 | Tray 2 Per- cent Full | Tray 2 Percent Full | Range = 0 to 100 | 0 |
| 606-029 | Tray 2 User Type | Tray 2 User Type | 0 = Fixed 1 = Adjustable All 2 = Adjustable Size Only | 1 |
| 606-030 | Tray 2 Modulus | Tray 2 Modulus | Range = 0 to 100 | 0 |
| 606-031 | Tray 2 Modulus Position | Tray 2 Modulus Position | Range = 1 to 100 | 1 |

Table 16 CCS NVM ID 606-001 to 606-269

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------|--|--|---------|
| 606-032 | , | Tray 2 Usage: Standard Tray / Envelope Tray | 0 = Special Materials 1 = High Capacity 2 = Basic Tray 3 = Interposer 4 = Envelope | 2 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------|-------------------|------------------------------|---------|
| 606-041 | Tray 3 | Tray 3 Media Type | 0 = Standard | 0 |
| | Media Type | | 1 = Drilled | |
| | | | 3 = Envelope | |
| | | | 4 = Transparency | |
| | | | 5 = Letterhead | |
| | | | 6 = Labels | |
| | | | 7 = Recycled | |
| | | | 9 = Other Type | |
| | | | 12 = Bond | |
| | | | 13 = Pre Printed | |
| | | | 14 = Card Stock | |
| | | | 15 = Custom 1 | |
| | | | 16 = Custom 2 | |
| | | | 17 = Custom 3 | |
| | | | 18 = Unspecified | |
| | | | 19 = Custom 4 | |
| | | | 20 = Custom 5 | |
| | | | 21 = Custom 6 | |
| | | | 22 = Custom 7 | |
| | | | 23 = System Default | |
| | | | 37 = Precut Tabs | |
| | | | 38 = Covers | |
| | | | 39 = Tabs | |
| | | | 40 = Paper Backed Transpar- | |
| | | | ency | |
| | | | 41 = Thin | |
| | | | 42 = Light Card Stock | |
| | | | 43 = Light Glossy | |
| | | | 44 = Heavy Glossy | |
| | | | 45 = Light Card Stock Side 2 | |
| | | | 46 = Light Glossy Side 2 | |
| | | | 47 = Heavy Glossy Side 2 | |
| | | | 48 = Card Stock Side 2 | |
| | | | 49 = Thin Side 2 | |
| | | | 50 = Heavy Labels | |
| | | | 51 = Heavy Precut Tabs | |
| | | | 52 = Heavy Card Stock | |
| | | | 53 = Heavy Card Stock Side | |
| | | | 2 | |
| | | | 54 = Extra Heavy Glossy | |
| | | | 55 = Extra Heavy Glossy | |
| | | | Side 2 | |
| | | | 56 = Extra Heavy Labels | |
| | | | 57 = Used Standard | |
| | | | 58 = Rough Stock | |
| | | | 59 = Photo | |
| | | | 60 = Postcard | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|---|------------------------------|
| 606-042 | Tray 3 Media Color | Tray 3 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-043 | Tray 3 Media Weight | Tray 3 Media Weight | Range = 60 to 216 | 75 |
| 606-044 | Tray 3 Direct Select | Tray 3 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-045 | Tray 3 Pri- ority | Tray 3 Priority | Range = 1 to 99 | 15 |
| 606-046 | Tray 3 Width | Tray 3 Width in mm A4 = 210 8.5 x 11 = 216 | Range = 210 to 216 | USSG = 216 XE = 210 |
| 606-047 | Tray 3 Length | Tray 3 Length in mm (Read only) A4 = 297 8.5 x 11 = 279 | Range = 279 to 297 | USSG = 279 XE = 297 |
| 606-048 | Tray 3 Per- cent Full | Tray 3 Percent Full | Range = 0 to 100 | 0 |
| 606-049 | Tray 3 User Type | Tray 3 User Type (fixed size) | 0 = Fixed 1 = Not fixed | 0 |
| 606-050 | Tray 3 Modulus | Tray 3 Modulus | Range = 0 to 100 | 0 |
| 606-051 | Tray 3 Modulus Position | Tray 3 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID NVM Nai | ne NVM Description | Settings | Default |
|--|--------------------------------------|---|------------------|
| NVM ID NVM Nai 606-061 Tray 4 Media Ty | ne NVM Description Tray 4 Media Type | Settings 0 = Standard 1 = Drilled 3 = Envelope 4 = Transparency 5 = Letterhead 6 = Labels 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy Side 2 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | Default 0 |
| | | 60 = Postcard | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-062 | Tray 4 Media Color | Tray 4 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-063 | Tray 4 Media Weight | Tray 4 Media Weight | Range = 60 to 216 | 75 |
| 606-064 | Tray 4 Direct Select | Tray 4 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-065 | Tray 4 Pri- ority | Tray 4 Priority | Range = 1 to 99 | 20 |
| 606-066 | Tray 4 Width | Tray 4 Width in mm | Range = 210 to 216 | 216 |
| 606-067 | Tray 4 Length | Tray 4 Length in mm | Range = 279 to 297 | 279 |
| 606-068 | Tray 4 Per- cent Full | Tray 4 Percent Full | Range = 0 to 100 | 0 |
| 606-069 | Tray 4 User Type | Tray 4 User Type | 1 = Adjustable All Range = 0 to 1 | 1 |
| 606-070 | Tray 4 Modulus | Tray 4 Modulus | Range = 0 to 100 | 0 |
| 606-071 | Tray 4 Modulus Position | Tray 4 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|------------------------------|---|---------|
| 606-082 | Tray 5 Media Color | Bypass Tray Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 7 21 = System Default | 0 |
| 606-083 | Tray 5 Media Weight | Bypass Tray Media Weight | Range = 60 to 216 | 75 |
| 606-084 | Tray 5 Direct Select | Bypass Tray Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-085 | Tray 5 Pri- ority | Bypass Tray Priority | Range = 1 to 99 | 99 |
| 606-086 | Tray 5 Width | Bypass Tray Width in mm | Range = 98 to 432 | 216 |
| 606-087 | Tray 5 Length | Bypass Tray Length in mm | Range = 104 to 297 | 279 |
| 606-088 | Tray 5 Per- cent Full | Bypass Tray Percent Full | Range = 0 to 100 | 0 |
| 606-089 | Tray 5 User Type | Bypass Tray User Type | 0 = Fixed 1 = Adjustable All 2 = Adjustable Size Only | 1 |
| 606-090 | Tray 5 Modulus | Bypass Tray Modulus | Range = 0 to 100 | 0 |
| 606-091 | Tray 5 Modulus Position | Bypass Tray Modulus Position | Range = 1 to 100 | 1 |

| Tray 6 Media Type Tray 6 Media Type | NVM ID | NVM Name | NVM Description | Settings | Default |
|--|--------|----------|-------------------|------------------|---------|
| 1 = Drilled 3 = Envelope 4 = Transparency 5 = Letterhead 6 = Labels 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Card Stock Side 2 2 49 = Thin Side 2 50 = Heavy Card Stock Side 2 2 51 = Heavy Card Stock Side 2 2 52 = Heavy Card Stock Side 2 2 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | • | | |
| 3 = Envelope 4 = Transparency 5 = Letterhead 6 = Labels 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy Side 2 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | Tray o modia Typo | | |
| ## Transparency 5 = Letterhead 6 = Labels 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Card Stock Side 2 42 = Heavy Card Stock Side 2 43 = Heavy Card Stock Side 2 44 = Heavy Glossy Side 2 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Card Stock Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Card Stock Side 2 40 = Light Glossy Side 2 41 = Heavy Card Stock Side 2 42 = Light Card Stock Side 2 43 = Light Glossy Side 2 44 = Light Glossy Side 2 45 = Light Card Stock Side 2 51 = Heavy Card Stock Side 2 52 = Heavy Card Stock Side 2 53 = Light Card Stock Side 2 54 = Extra Heavy Glossy Side 2 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | ,,,,, | | 3 = Envelope | |
| 5 = Letterhead 6 = Labels 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock Side 2 46 = Light Glossy Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy 45 = Light Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 55 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 7 = Recycled 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 9 = Other Type 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 6 22 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 6 = Labels | |
| 12 = Bond 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 7 = Recycled | |
| 13 = Pre Printed 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 19 = Tusto Stock Side 2 20 = Stara Heavy Card Stock Side 2 21 = Custom 6 22 = Stara Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 9 = Other Type | |
| 14 = Card Stock 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 6 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 44 = Heavy Glossy Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 12 = Bond | |
| 15 = Custom 1 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Glossy Side 2 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 13 = Pre Printed | |
| 16 = Custom 2 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 14 = Card Stock | |
| 17 = Custom 3 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 15 = Custom 1 | |
| 18 = Unspecified 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Extra Heavy Glossy Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 16 = Custom 2 | |
| 19 = Custom 4 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Glossy Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 20 = Custom 5 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 47 = Heavy Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 21 = Custom 6 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Card Stock Side 2 47 = Heavy Glossy Side 2 47 = Heavy Glossy Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 22 = Custom 7 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 23 = System Default 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 37 = Precut Tabs 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 38 = Covers 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | 1 | |
| 39 = Tabs 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 40 = Paper Backed Transparency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| ency 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 48 = Extra Heavy Glossy 55 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 41 = Thin 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | · | |
| 42 = Light Card Stock 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 43 = Light Glossy 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 44 = Heavy Glossy 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | - C | |
| 45 = Light Card Stock Side 2 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 46 = Light Glossy Side 2 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 47 = Heavy Glossy Side 2 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 48 = Card Stock Side 2 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 49 = Thin Side 2 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 50 = Heavy Labels 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 51 = Heavy Precut Tabs 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 52 = Heavy Card Stock 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 53 = Heavy Card Stock Side 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 2 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 54 = Extra Heavy Glossy 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | 1 | | | |
| 55 = Extra Heavy Glossy Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | 1 | | | |
| Side 2 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 56 = Extra Heavy Labels 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 57 = Used Standard 58 = Rough Stock 59 = Photo | | | | | |
| 58 = Rough Stock 59 = Photo | | | | - | |
| 59 = Photo | | 1 | | | |
| 60 - Postcard | | 1 | | ŭ . | |
| | | | | 60 = Postcard | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-102 | Tray 6 Media Color | Tray 6 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-103 | Tray 6 Media Weight | Tray 6 Media Weight | Range = 60 to 216 | 75 |
| 606-104 | Tray 6 Direct Select | Tray 6 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-105 | Tray 6 Pri- ority | Tray 6 Priority | Range = 1 to 99 | 5 |
| 606-106 | Tray 6 Width | Tray 6 Width in mm | Range = 210 to 216 | 216 |
| 606-107 | Tray 6 Length | Tray 6 Length in mm | Range = 279 to 297 | 279 |
| 606-108 | Tray 6 Per- cent Full | Tray 6 Percent Full | Range = 0 to 100 | 0 |
| 606-109 | Tray 6 User Type | Tray 6 User Type | 0 = Fixed 1 = Adjustable All 2 = Adjustable Size Only | 0 |
| 606-110 | Tray 6 Modulus | Tray 6 Modulus | Range = 0 to 100 | 0 |
| 606-111 | Tray 6 Modulus Position | Tray 6 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------|-------------------|-----------------------------------|---------|
| 606-121 | Tray 7 | Tray 7 Media Type | 0 = Standard | 0 |
| | Media Type | | 1 = Drilled | |
| | | | 3 = Envelope | |
| | | | 4 = Transparency | |
| | | | 5 = Letterhead | |
| | | | 6 = Labels | |
| | | | 7 = Recycled | |
| | | | 9 = Other Type | |
| | | | 12 = Bond | |
| | | | 13 = Pre Printed | |
| | | | 14 = Card Stock | |
| | | | 15 = Custom 1 | |
| | | | 16 = Custom 2 | |
| | | | 17 = Custom 3 | |
| | | | 18 = Unspecified | |
| | | | 19 = Custom 4 | |
| | | | 20 = Custom 5 | |
| | | | 21 = Custom 6 | |
| | | | 22 = Custom 7 | |
| | | | 23 = System Default | |
| | | | 37 = Precut Tabs | |
| | | | 38 = Covers | |
| | | | 39 = Tabs | |
| | | | 40 = Paper Backed Transpar- | |
| | | | ency | |
| | | | 41 = Thin | |
| | | | 42 = Light Card Stock | |
| | | | 43 = Light Glossy | |
| | | | 44 = Heavy Glossy | |
| | | | 45 = Light Card Stock Side 2 | |
| | | | 46 = Light Glossy Side 2 | |
| | | | 47 = Heavy Glossy Side 2 | |
| | | | 48 = Card Stock Side 2 | |
| | | | 49 = Thin Side 2 | |
| | | | 50 = Heavy Labels | |
| | | | 51 = Heavy Precut Tabs | |
| | | | 52 = Heavy Card Stock | |
| | | | 53 = Heavy Card Stock Side | |
| | 1 | | 2 54 – Extra Haavy Glassy | |
| | | | 54 = Extra Heavy Glossy | |
| | | | 55 = Extra Heavy Glossy Side 2 | |
| | 1 | | 56 = Extra Heavy Labels | |
| | 1 | | 57 = Used Standard | |
| | 1 | | | |
| | 1 | | 58 = Rough Stock 59 = Photo | |
| | | | | |
| |] | | 60 = Postcard | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-122 | Tray 7 Media Color | Tray 7 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-123 | Tray 7 Media Weight | Tray 7 Media Weight | Range 60 to 216 | 75 |
| 606-124 | Tray 7 Direct Select | Tray 7 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-125 | Tray 7 Pri- ority | Tray 7 Priority | Range = 0 to 99 | 10 |
| 606-126 | Tray 7 Width | Tray 7 Width in mm | Range = 210 to 432 | 216 |
| 606-127 | Tray 7 Length | Tray 7 Length in mm | Range = 210 to 297 | 279 |
| 606-128 | Tray 7 Per- cent Full | Tray 7 Percent Full | Range = 0 to 100 | 0 |
| 606-129 | Tray 7 User Type | Tray 7 User Type | 0 = Fixed 1 = Adjustable All 2 = Adjustable Size Only | 1 |
| 606-130 | Tray 7 Modulus | Tray 7 Modulus | Range = 0 to 100 | 0 |
| 606-131 | Tray 7 Modulus Position | Tray 7 Modulus Position | Range = 1 to 100 | 1 |

| Tray 8 Media Type |
|---------------------|
| |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|-------------------------|---|---------|
| 606-142 | Tray 8 Media Color | Tray 8 Media Color | 0 = White 1 = Green 2 = Buff 3 = Yellow 4 = Goldenrod 5 = Blue 6 = Pink 7 = Transparent 8 = Ivory 9 = Gray 10 = Red 11 = Orange 12 = Other Color 13 = Custom 1 14 = Custom 2 15 = Custom 3 16 = Unspecified 17 = Custom 4 18 = Custom 5 19 = Custom 6 20 = Custom 7 21 = System Default | 0 |
| 606-143 | Tray 8 Media Weight | Tray 8 Media Weight | Range = 60 to 216 | 75 |
| 606-144 | Tray 8 Direct Select | Tray 8 Direct Select | 0 = Direct Only 1 = Direct And Auto | 1 |
| 606-145 | Tray 8 Pri- ority | Tray 8 Priority | Range = 1 to 99 | 5 |
| 606-146 | Tray 8 Width | Tray 8 Width in mm | Range = 210 to 420 | 210 |
| 606-147 | Tray 8 Length | Tray 8 Length in mm | Range = 297 to 297 | 297 |
| 606-148 | Tray 8 Per- cent Full | Tray 9 Percent Full | Range = 0 to 100 | 0 |
| 606-149 | Tray 8 User Type | Tray 8 User Type | 0 = Fixed 1 = Adjustable All 2 = Adjustable Size Only | 1 |
| 606-150 | Tray 8 Modulus | Tray 8 Modulus | Range = 0 to 100 | 0 |
| 606-151 | Tray 8 Modulus Position | Tray 8 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|---|---|---------|
| 606-152 | Print Engine Lifetime Jams | Print Engine Lifetime Jams (Read only) | Range = 0 to 4294967295 | 0 |
| 606-269 | Service Plan | Service Plan (Read only) | 0 = XE/NA Sold 1 = Default (has been set by SIM) 2 = Not used 3 = Metered 4 = XE PagePack 5 = DMO sold. | 3 |

Table 17 CCS NVM ID 606-272 to 606-886

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|--|---|---------|
| 606-272 | TB Configuration | Billing Configuration. This counter supports tier billing | 0 = Traditional 1 = 2 tier 2 = 3 tier | 0 |
| 606-392 | PrePunchMedi- aEraseValue | Default sheet edge erase value for pre-punched, pre-cut tab stock in mm. | Range = 0 to 255 | 0 |
| 606-393 | Tray 1 Jams | Tray 1 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-394 | Tray 2 Jams | Tray 2 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-395 | Tray 3 Jams | Tray 3 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-396 | Tray 4 Jams | Tray 4 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-397 | Tray 5 Jams | Bypass Tray Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-398 | Tray 6 Jams | Tray 6 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-399 | Tray 7 Jams | Tray 7 Jams - Usage Counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-401 | IOT comm faults counter | IOT comm faults counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-402 | Finisher comm faults counter | Finisher comm faults counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-403 | Protocol comm faults counter | Protocol comm faults counter (Read only) | Range = 0 to 4294967295 | 0 |
| 606-404 | Paper trays cur- rently installed | Paper trays currently installed (Read only) | Range = 0 to 4294967295 | 0 |

Table 17 CCS NVM ID 606-272 to 606-886

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|---|----------------------------|---------|
| 606-405 | Output jams | Output jams (Read only) | Range = 0 to 4294967295 | 0 |
| 606-406 | Compile jams | Compile jams (Read only) | Range = 0 to 4294967295 | 0 |
| 606-407 | Staple errors | Staple errors (Read only) | Range = 0 to 4294967295 | 0 |
| 606-408 | Booklet maker errors | Booklet maker errors (Read only) | Range = 0 to 4294967295 | 0 |
| 606-409 | Registration Jams | Registration Jams (Read only) | Range = 0 to 4294967295 | 0 |
| 606-410 | Installed Maint Kit Impressions | Total number of sheets that have been successfully delivered to output destination since the current kit was installed. (Read only) | Range = 0 to 4294967295 | 0 |
| 606-467 | Actual K Pix In BW Mode Low | Actual Black Pixels Marked- Black & White Low (1K) (Read only) | Range = 0 to 4294967295 | 0 |
| 606-482 | DADHRollFeeds | SPDH Feed Roll Number of feeds | Range = 0 to 4294967295 | 0 |
| 606-483 | PPIRollFeeds | PPI Feed Roll Number of feeds | Range = 0 to 4294967295 | 0 |
| 606-484 | Tray1RollFeeds | Tray1 Feed Roll - Number of feeds | Range = 0 to 4294967295 | 0 |
| 606-485 | Tray2RollFeeds | Tray2 Feed Roll - Number of feeds | Range = 0 to 4294967295 | 0 |
| 606-486 | Tray3RollFeeds | Tray3 Feed Roll - Number of feeds | Range = 0 to 4294967295 | 0 |
| 606-487 | MSIRollFeeds | MSI Feed Roll number of feeds | Range = 0 to 4294967295 | 0 |
| 606-488 | InserterRollRe- placements | Inserter Feed Roll - Number of replacements | Range = 0 to 4294967295 | 0 |
| 606-489 | FuserUsage | Fuser assembly number of sheets | Range = 0 to 4294967295 | 0 |
| 606-492 | DADHRollRe- placements | SPDH Feed Roll number of replacements | Range = 1 to 65535 | 1 |
| 606-493 | InserterRollRe- placements | Inserter Feed Roll - Number of replacements | Range = 1 to 65535 | 1 |
| 606-494 | 3TMtray1RollRepl acements | Tray1 Feed Roll number of replacements | Range = 1 to 65535 | 1 |
| 606-495 | 3TMtray2RollRepl acements | Tray2 Feed Roll number of replacements | Range = 1 to 65535 | 1 |
| 606-496 | 3TMtray3RollRepl acements | Tray3 Feed Roll number of feeds | Range = 1 to 65535 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|--|----------------------------|---------|
| 606-497 | Tray5FeedRollsR epCount | Bypass tray feed roll number of replacements | Range = 1 to 65535 | 1 |
| 606-498 | Tray6FeedRollsR epCoun | Tray 6 Feed Roll number of replacements | Range = 1 to 65535 | 1 |
| 606-516 | SPDHRollLife | SPDH Feed Roll Life Expect- ancy | Range = 0 to 4294967295 | 170000 |
| 606-517 | Tray7FeedRollsEx pLife | Tray 7 (PPI) Feed Rolls Life Expectancy | Range = 0 to 4294967295 | 100000 |
| 606-518 | Tray1FeedRollsEx pLife | Tray 1 Feed Rolls life expect- ancy | Range = 0 to 4294967295 | 750000 |
| 606-519 | Tray2FeedRollsEx pLife | Tray 2 Feed Rolls life expect- ancy | Range = 0 to 4294967295 | 750000 |
| 606-520 | Tray3FeedRollsEx pLife | Tray 3 Feed Rolls Life Expect- ancy | Range = 0 to 4294967295 | 400000 |
| 606-521 | Tray5FeedRollsEx pLife | Bypass Tray Feed Rolls life expectancy | Range = 0 to 4294967295 | 100000 |
| 606-522 | Tray6FeedRollsEx pLife | Tray 6 (PFP) Feed Rolls life expectancy | Range = 0 to 4294967295 | 100000 |
| 606-523 | FuserLife | Fuser Life Expectancy | Range = 0 to 4294967295 | 0 |
| 606-537 | Last Auto Mainte- nance Update | Last Auto Maintenance Update (Read only) | Range = 0 to 4294967295 | 0 |
| 606-539 | InhibitMarkOnTab- sPolicy | Inhibit Mark On Tabs Policy | 0 = Off 1 = On | 1 |
| 606-572 | Finisher- FlashROMFailFC | Fault counter 312-098: Finisher Flash ROM Fail | Range = 0 to 255 | 0 |
| 606-573 | OffsetUnitH- omeMvFC | Fault counter 312-275: Offset Unit Home Move Fault | Range = 0 to 255 | 0 |
| 606-572 | OffsetUnitAway- HomeFC | Fault counter 312-276: Offset Unit Away Home Fault | Range = 0 to 255 | 0 |
| 606-573 | FinisherCommEr- rorFC | Fault counter 312-099: Finisher Comm Error | Range = 0 to 255 | 0 |
| 606-578 | FinisherElevation- DriveFailFC | Fault counter 312-480: Finisher Elevation Drive Fail | Range = 0 to 255 | 0 |
| 606-579 | FinisherPaper- PressDriveFailFC | Fault counter 312-481: Finisher Paper Press Drive Fail | Range = 0 to 255 | 0 |
| 606-580 | FinisherAlignPlat- eDriveFailFC | Fault counter 312-482: Finisher Align Plate Drive Fail | Range = 0 to 255 | 0 |
| 606-581 | FinisherEjectRol- lerContactFailFC | Fault counter 312-483: Finisher Eject Roller Contact Fail | Range = 0 to 255 | 0 |
| 606-582 | FinisherStorage- BeltContactFailFC | Fault counter 312-484: Finisher Storage Belt Contact Fail | Range = 0 to 255 | 0 |
| 606-583 | FinisherBundleE- jectMotorFailFC | Fault counter 312-485: Finisher Bundle Eject Motor Fail | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|---|--|---------|
| 606-604 | JamFinisher- TransportAreaFC | Fault counter 312-487: JamFinisherTransportAreaFC | Range = 0 to 255 | 0 |
| 606-605 | JamFinisherUp- perOutputTrayFC | Fault counter 312-488: JamFinisherUpperOutputTrayFC | Range = 0 to 255 | 0 |
| 606-606 | JamFinisherStack- erOutputTrayFC | Fault counter 312-489: JamFinisherStackerOutputTrayFC | Range = 0 to 255 | 0 |
| 606-607 | StaplerJamFC | Fault counter 312-491: Stapler- JamFC | Range = 0 to 255 | 0 |
| 606-710 | Average AC Black. Int. | Average Area Coverage for Black channel in black mode for life of machine. (Read only) | Range = 0 to 4294967295 | 0 |
| 606-714 | Avg AC Black in Color Int. | Average Area Coverage for Black channel in color mode for life of machine. (Read only) | Range = 0 to 4294967295 | 0 |
| 606-757 | ATSWithFinishin- gEnable | Folding job with Tray selected switches to another tray when selected tray runs out of media. | 1 = Enabled 0 = Disabled | 0 |
| 606-787 | Table Version | Default is the version number of the Excel table used to create the NVM | Range = 0 to 65535 | 1515 |
| 606-801 | PapPusher- SwitchFC | Fault counter 312-444: Paper Pusher Switch Fault | Range = 0 to 255 | 0 |
| 606-806 | Default Staple Position | Default Staple position | 1 = Moves to front 2 = Remains at rear | 2 |
| 606-820 | TonerGramsStd | Number of Grams of toner in a Standard size cartridge | Range = 0 to 65535 | 137 |
| 606-821 | TonerGramsHi- Cap | Number of Grams of toner in a High Capacity cartridge | Range = 0 to 65535 | 266 |
| 606-857 | BlackNeu- tral(1)Countdown | Number of Black neutral ink sticks allowed (1) | Range = 0 to 4 | 4 |
| 606-874 | EjectHomeSenso- rONFail | Fault counter 312-259-00: Eject Home Sensor On Fail | Range = 0 to 255 | 0 |
| 606-875 | EjectHomeSenso- rOFFFail | Fault counter 312-280-00: Eject Home Sensor Off Fail | | 0 |
| 606-876 | StackerTraySta- pleSetOverCount | Fault counter 312-917-00: Stacker Tray Staple Set Over Counter | Range = 0 to 255 | 0 |
| 606-877 | ScratchSheet- Compile | Fault counter 312-928-00: Scratch Sheet Compile | Range = 0 to 255 | 0 |
| 606-878 | StapleNG | Fault counter 312-976-00: Staple NG | Range = 0 to 255 | 0 |
| 606-879 | StaplerFee- dReadyFail | Fault counter 312-977-00: Sta- pler Feed Ready Fail | Range = 0 to 255 | 0 |

Table 17 CCS NVM ID 606-272 to 606-886

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|--|------------------|---------|
| 606-880 | StackerLower- SafetyWarning | Fault counter 312-982-00: Stacker Lower Safety Warning | Range = 0 to 255 | 0 |
| 606-881 | BookletSubCPU- CommFail | Fault counter 312-269-00: Booklet Sub CPU Comm Fail | Range = 0 to 255 | 0 |
| 606-882 | H_XportEntSnrOF FJam | Fault counter 312-111-00: Horizontal Transport Entry Sensor Off Jam | Range = 0 to 255 | 0 |
| 606-883 | BookletFrontSta- plerFail | Fault counter 312-249-00: Booklet Front Stapler Fail | Range = 0 to 255 | 0 |
| 606-884 | BookletRearSta- plerFail | Fault counter 312-268-00: Booklet Rear Stapler Fail | Range = 0 to 255 | 0 |
| 606-885 | BookletStapleMov ePosi_SnrONFail | Fault counter 312-212-00: Booklet Staple Move Position Sensor On Fail | Range = 0 to 255 | 0 |
| 606-886 | | Fault counter 312-213-00: Booklet Staple Move Position Sensor OFF Fail | Range = 0 to 255 | 0 |

Table 18 CCS NVM ID 608-411 to 608-996

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|--|------------------|---------|
| 608-411 | Stapler End Home Failure | Fault counter 312-370-00: Stapler End Home Failure | Range = 0 to 255 | 0 |
| 608-412 | Stapler Return End Home Failure | Fault Counter 312-369-00: Stapler Return End Home Fail- ure | Range = 0 to 255 | 0 |
| 608-413 | Punch - side edge2 detect fail | Fault counter 312-368-00: Punch Unit paper side edge 2 detecting failure | Range = 0 to 255 | 0 |
| 608-414 | Punch - side edge3 detect fail | Fault counter 312-367-00: Punch Unit paper side edge 3 detecting failure | Range = 0 to 255 | 0 |
| 608-728 | DrumConserva- tionMode | Drum Conservation Mode | Range = 0 to 1 | 1 |
| 608-931 | ImeIncompati- bleFinisherFC | Fault counter 312-765-00: Incompatible Finisher Detected | Range = 0 to 255 | 0 |
| 608-933 | PaperDetectSen- sorNotMade | Fault counter 312-195: Paper Detect Sensor not Made Jam | Range = 0 to 255 | 0 |
| 608-934 | LELateEntrySen- sor | Fault counter 312-125: Fin- isher Entry Sensor not Made Jam | Range = 0 to 255 | 0 |

Table 18 CCS NVM ID 608-411 to 608-996

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|--|--------------------|---------|
| 608-935 | TELateEntrySen- sor | Fault counter 312-101: Finisher Entry Sensor not Cleared Jam | Range = 0 to 255 | 0 |
| 608-936 | StapleDoorOpe- nIR | Fault counter 312-336: Rear Staple Door Opened in Run | Range = 0 to 255 | 0 |
| 608-937 | EjectorClampMo- torStall | Fault counter 312-283: Ejector Clamp Motor Stall Failure | Range = 0 to 255 | 0 |
| 608-938 | EjectorClampRe- turnHome | Fault counter 312-284: Ejector Clamp Return Home Failure | Range = 0 to 255 | 0 |
| 608-939 | LEEntrySensor- Triggered | Fault counter 312-950: Preparation Time Violation on Finisher Entry Sensor | Range = 0 to 255 | 0 |
| 608-951 | Top Edge Reg Tray 1 Simplex | Tray 1 Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-952 | Top Edge Reg Tray 2 Simplex | Tray 2 Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-953 | Top Edge Reg Tray 3 Simplex | Tray 3 Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-954 | Top Edge Reg Tray 4 Simplex | Tray 4 Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-955 | Top Edge Reg Tray 5 Simplex | Bypass Tray Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-956 | Top Edge Reg Tray 6 Simplex | Tray 6 (PFP) Top Edge Reg Simp | Range = 0 to 472 | 236 |
| 608-957 | Top Edge Reg Tray 1 Duplex | Tray 1 Top Edge Reg Dup | Range = 0 to 472 | 236 |
| 608-958 | Tray 2 Top Edge Reg Dup | Top Edge Reg Tray 2 Duplex | Range = 0 to 472 | 236 |
| 608-959 | Top Edge Reg Tray 3 Duplex | Tray 3 Top Edge Reg Dup | Range = 0 to 472 | 236 |
| 608-960 | Top Edge Reg Tray 4 Duplex | Tray 4 Top Edge Reg Dup | Range = 0 to 472 | 236 |
| 608-961 | Top Edge Reg Tray 5 Duplex | Bypass Tray Top Edge Reg Dup | Range = 0 to 472 | 236 |
| 608-962 | Top Edge Reg Tray 6 Duplex | Tray 6 (PFP) Top Edge Reg Dup | Range = 0 to 472 | 236 |
| 608-963 | IOT LE Reg Simp | IOT Lead Edge Reg Simp | Range = 0 to 236 | 0 |
| 608-964 | IOT LE Reg Dup | IOT Lead Edge Reg Dup | Range = 0 to 236 | 0 |
| 608-966 | BillingImpression- sMode | Billing Impressions Mode (Read only) | Range = 0 to 65535 | 0 |
| 608-976 | Fault Counter 11- 484-00 | Fault Counter 311-484-00 | Range = 0 to 255 | 0 |
| 608-977 | Fault Counter 11- 486-00 | Fault Counter 311-486-00 | Range = 0 to 255 | 0 |

Table 18 CCS NVM ID 608-411 to 608-996

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|------------------|---------|
| 608-978 | Fault Counter 11- 488-00 | Fault Counter 311-488-00 | Range = 0 to 255 | 0 |
| 608-979 | Fault Counter 11- 490-00 | Fault Counter 311-490-00 | Range = 0 to 255 | 0 |
| 608-980 | Fault Counter 11- 492-00 | Fault Counter 311-492-00 | Range = 0 to 255 | 0 |
| 608-994 | Custom Media feature enable- ment | Custom display names for custom media types - feature enablement | Range = 0 to 1 | 0 |
| 608-996 | CMT List Initial- ized | Custom display names - Custom media type List initialized flag (Read only) | Range = 0 to 1 | 1 |

Table 19 CCS NVM ID 609-001 to 609-468

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 609-001 | FrontCoverOpen-InRunFC | Fault counter 301-300-00: Front Cover Open In Run Fault | Range = 0 to 255 | 0 |
| 609-002 | SideCoverOpen- InRunFC | Fault counter 301-305-00: Side Cover Open In Run Fault | Range = 0 to 255 | 0 |
| 609-003 | LELateToPost- FuserSnsrSim- pFC | Fault counter 310-101-00: Lead Edge Late To Post Fuser Sensor Simp Fault | Range = 0 to 255 | 0 |
| 609-004 | LELateToPostFus erSnsrDup1FC | Fault counter 310-102-00: Lead Edge Late To Post Fuser Sensor Dup 1 Fault | Range = 0 to 255 | 0 |
| 609-005 | LELateToPostFus erSnsrDup2FC | Fault counter 310-103-00: Lead Edge Late To Post Fuser Sensor Dup 2 Fault | Range = 0 to 255 | 0 |
| 609-006 | TELateFmPost- FuseSnsrSimp- NonInvFC | Fault counter 310-107-00: Trail Edge Late From Post Fuser Sensor Simp Non Inv Fault | Range = 0 to 255 | 0 |
| 609-007 | TELateFmPost- FuserSnsrSim- pInvFC | Fault counter 310-108-00: Trail Edge Late From Post Fuser Sensor Simp Inv Fault | Range = 0 to 255 | 0 |
| 609-008 | TELateFmPostFu serSnsrDup1FC | Fault counter 310-109-00: Trail Edge Late From Post Fuser Sensor Dup 1 Fault | Range = 0 to 255 | 0 |
| 609-009 | TELateFmPostFu serSnsrDup2FC | Fault counter 310-110-00: Trail Edge Late From Post Fuser Sensor Dup 2 Fault | Range = 0 to 255 | 0 |
| 609-010 | LELateTolotEx- itSnsrInvFC | Fault counter 310-120-00: Lead Edge Late To IOT Exit Sensor Inv Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-011 | LELateTolotEx- itSnsrNonInvFC | Fault counter 310-121-00: Lead Edge Late To IOT Exit Sensor Non Inv Fault | Range = 0 to 255 | 0 |
| 609-012 | TELateFmlotEx- itSnsrFC | Fault counter 310-126-00: Trail Edge Late From IOT Exit Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-013 | LELateToTopEx- itSnsrFC | Fault counter 310-130-00: Lead Edge Late To Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-014 | TELateFmTopEx- itSnsrFC | Fault counter 310-131-00: Trail Edge Late From Top Exit Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-015 | LELateToIn- vertSnsrSimpFC | Fault counter 310-132-00: Lead Edge Late To Invert Sensor Simp Fault | Range = 0 to 255 | 0 |
| 609-016 | LELateToInvertSn srDup1FC | Fault counter 310-133-00: Lead Edge Late To Invert Sensor Dup 1 Fault | Range = 0 to 255 | 0 |
| 609-017 | LELateToInvertSn srDup2FC | Fault counter 310-134-00: Lead Edge Late To Invert Sensor Dup 2 Fault | Range = 0 to 255 | 0 |
| 609-018 | TELateFmIn- vertSnsrSimp- NonInvFC | Fault counter 310-135-00: Trail Edge Late From Invert Sensor Simp Non Inv Fault | Range = 0 to 255 | 0 |
| 609-019 | TELateFmIn- vertSnsrSimpIn- vFC | Fault counter 310-136-00: Trail Edge Late From Invert Sensor Simp Inv Fault | Range = 0 to 255 | 0 |
| 609-020 | TELateFmInvertS nsrDup1FC | Fault counter 310-137-00: Trail Edge Late From Invert Sensor Dup 1 Fault | Range = 0 to 255 | 0 |
| 609-021 | TELateFmInvertS nsrDup2FC | Fault counter 310-138-00: Trail Edge Late From Invert Sensor Dup 2 Fault | Range = 0 to 255 | 0 |
| 609-022 | FuserTherm- FCFC | Fault counter 310-315-00: Fuser Therm Fault | Range = 0 to 255 | 0 |
| 609-023 | FuserCtrlFailFC | Fault counter 310-320-00: Fuser Control Failure Fault | Range = 0 to 255 | 0 |
| 609-024 | FuserCtrlFail- StandbyOver- TempFC | Fault counter 310-321-00: Fuser Control Failure Standby Over Temp Fault | Range = 0 to 255 | 0 |
| 609-025 | FuserCtrlFail- StandbyUnder- TempFC | Fault counter 310-322-00: Fuser Control Failure Standby Under Temp Fault | Range = 0 to 255 | 0 |
| 609-026 | FuserCtrlFail- RunOverTempFC | Fault counter 310-323-00: Fuser Control Failure Run Over Temp Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-027 | FuserCtrlFailRu- nUnderTempFC | Fault counter 310-324-00: Fuser Control Failure Run Under Temp Fault | Range = 0 to 255 | 0 |
| 609-028 | FuserNotBeingC- trlledFC | Fault counter 310-325-00: Fuser Not Being Controlled Fault | Range = 0 to 255 | 0 |
| 609-029 | FuserWarmup- FailFC | Fault counter 310-330-00: Fuser Warmup Failure Fault | Range = 0 to 255 | 0 |
| 609-030 | FuserAOverTem- peratureFC | Fault counter 310-340-00: Fuser A Over Temperature Fault | Range = 0 to 255 | 0 |
| 609-031 | FuserOverTem- pOrShortCir- cuitFC | Fault counter 310-350-00: Fuser Over Temp Or Short Circuit Fault | Range = 0 to 255 | 0 |
| 609-032 | FuserBOverTem- peratureFC | Fault counter 310-360-00: Fuser B Over Temperature Fault | Range = 0 to 255 | 0 |
| 609-033 | FuserCOverTem- peratureFC | Fault counter 310-365-00: Fuser C Over Temperature Fault | Range = 0 to 255 | 0 |
| 609-034 | FuserPower- SaveCtrlFailFC | Fault counter 310-370-00: Fuser PowerSave Control Failure Fault | Range = 0 to 255 | 0 |
| 609-035 | FuserTempGradi- entTooHighFC | Fault counter 310-380-00: Fuser Temp Gradient Too High Fault | Range = 0 to 255 | 0 |
| 609-036 | FruAuthorisation- FailFC | Fault counter 310-399-00: Fru- Authorisation Failure Fault | Range = 0 to 255 | 0 |
| 609-037 | SFuserCtrlFail- StandbyOver- TempFC | Fault counter 310-821-00: Fuser Control Failure Standby Over Temp Fault | Range = 0 to 255 | 0 |
| 609-038 | SFuserCtrlFail- StandbyUnder- TempFC | Fault counter 310-822-00: Fuser Control Failure Standby Under Temp Fault | Range = 0 to 255 | 0 |
| 609-039 | PfmComms- FailFC | Fault counter 341-350-00: Pfm Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-040 | PfmFeedBuffer- OverflowFC | Fault counter 341-351-00: PfmFeedBufferOverflowFault | Range = 0 to 255 | 0 |
| 609-041 | Pfml2CFrameFail FC | Fault counter 341-354-00: Pfm I2C Frame Failure Fault | Range = 0 to 255 | 0 |
| 609-042 | FinisherComms- FailFC | Fault counter 341-359-00: Hcf Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-043 | FinToBmComms- FailFC | Fault counter 341-360-00: Finisher Comms Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|---|------------------|---------|
| 609-044 | PfpCommsFailFC | Fault counter 341-363-00: Fin To Bm Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-045 | FruCommsFailFC | Fault counter 341-366-00: Pfp Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-046 | XruCommsFailFC | Fault counter 341-371-00: Fru Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-047 | IOTCycledInWith- outPrintingFC | Fault counter 341-372-00: Xru Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-048 | LaserOnWithout- PrTurningFC | Fault counter 341-395-00: IOT Cycled In Without Printing Fault | Range = 0 to 255 | 0 |
| 609-049 | MainMtrNotBe- ingCtrlledFC | Fault counter 341-396-00: Laser On Without Pr Turning Fault | Range = 0 to 255 | 0 |
| 609-050 | HcfCommsFailFC | Fault counter 341-397-00: Main Motor Not Being Con- trolled Fault | Range = 0 to 255 | 0 |
| 609-051 | PrintCmdLateToP ageSyncSplx3FC | Fault counter 341-423-00: Print Command Late To Page Sync Simplex 3 Fault | Range = 0 to 255 | 0 |
| 609-052 | Fail24VFC | Fault counter 341-480-00: Failure 24V Fault | Range = 0 to 255 | 0 |
| 609-053 | IgnorestatFC | Fault counter 341-805-00: Ignore stat Fault | Range = 0 to 255 | 0 |
| 609-054 | OutOfTmrsFC | Fault counter 341-852-00: Out Of Timers Fault | Range = 0 to 255 | 0 |
| 609-055 | IOTRelativeHu- miditySnsrFC | Fault counter 342-365-00: IOT Relative Humidity Sensor Fault | | 0 |
| 609-056 | IOTAmbientTem- peratureSnsrFC | Fault counter 342-375-00: IOT Ambient Temperature Sensor Fault | Range = 0 to 255 | 0 |
| 609-057 | HighVoltagePow- erSupplyFailFC | Fault counter 346-060-00: High Voltage Power Supply Failure Fault | Range = 0 to 255 | 0 |
| 609-058 | RosMtrFailFC | Fault counter 361-020-00: Ros Motor Failure Fault | Range = 0 to 255 | 0 |
| 609-059 | RosSystem- FailFC | Fault counter 361-340-00: Ros System Failure Fault | Range = 0 to 255 | 0 |
| 609-060 | RosLaserNotBe- ingCtrlledFC | Fault counter 361-350-00: Ros Laser Not Being Controlled Fault | Range = 0 to 255 | 0 |
| 609-061 | XruAuthorisation- FailFC | Fault counter 392-399-00: Xru Authorisation Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-062 | ReplenisherLev- elSnsrFailFC | Fault counter 393-310-00: Replenisher Level Sensor Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-063 | TonerConcSnsr- FailFC | Fault counter 393-360-00: Toner Concentration Sensor- Failure Fault | Range = 0 to 255 | 0 |
| 609-064 | TonerConcCtrl- FailLowFC | Fault counter 393-361-00: Toner Concentration Control- Failure Low Fault | Range = 0 to 255 | 0 |
| 609-065 | TonerConcCtrl- FailHighFC | Fault counter 393-362-00: Toner Concentration Control Failure High Fault | Range = 0 to 255 | 0 |
| 609-066 | TonerConclsolat- edCtrlFailLowFC | Fault counter 393-363-00: Toner Concentration Isolated Control Fail Low Fault | Range = 0 to 255 | 0 |
| 609-067 | WasteTonerBot- tleMissingFC | Fault counter 393-380-00: Waste Toner Bottle Missing Fault | Range = 0 to 255 | 0 |
| 609-068 | TonerCartridge- EmptyFC | Fault counter 393-390-00: Toner Cartridge Empty Fault | Range = 0 to 255 | 0 |
| 609-069 | ScorotronClean- ingFailedFC | Fault counter 394-341-00: Scorotron Cleaning Failed Fault | Range = 0 to 255 | 0 |
| 609-070 | ScorotronClean- ngWarningFC | Fault counter 394-342-00: Scorotron Cleaning Warning Fault | Range = 0 to 255 | 0 |
| 609-071 | TransferDetack- CleaningFailedFC | Fault counter 394-345-00: Transfer Detack Cleaning Failed Fault | Range = 0 to 255 | 0 |
| 609-072 | TransferDetack- CleaningWarn- ingFC | Fault counter 394-346-00: Transfer Detack Cleanng Warning Fault | Range = 0 to 255 | 0 |
| 609-073 | Photoreceptor- EraseLamp- FailFC | Fault counter 394-350-00: Photoreceptor Erase Lamp Failure Fault | Range = 0 to 255 | 0 |
| 609-074 | IOTDeveloper- TemperatureSn- srFC | Fault counter 394-370-00: IOTDeveloper Temperature Sensor Fault | Range = 0 to 255 | 0 |
| 609-075 | LELateToPfm- WaitPointSnsrFC | Fault counter 381-100-00: Lead Edge Late To Pfm Wait Point Sensor Fault | Range = 0 to 255 | 0 |
| 609-076 | LELateToTray1Fe edSnsrFC | Fault counter 381-101-00: Lead Edge Late To Tray 1 Feed Sensor Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|---|------------------|---------|
| 609-077 | LELateToTray2Fe edSnsrFC | Fault counter 381-102-00: Lead Edge Late To Tray 2 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-078 | edSnsrFC | Fault counter 381-103-00: Lead Edge Late To Tray 3 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-079 | LELateToTray4Fe edSnsrFC | Fault counter 381-104-00: Lead Edge Late To Tray 4 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-080 | LELateToTray1Sn srFmTray2FC | Fault counter 381-106-00: Lead Edge Late To Tray 1 Sensor From Tray 2 Fault | Range = 0 to 255 | 0 |
| 609-081 | LELateToTray4Sn srFmTray3FC | Fault counter 381-107-00: Lead Edge Late To Tray 4 Sensor From Tray 3 Fault | Range = 0 to 255 | 0 |
| 609-082 | LELateToTray2Sn srFmTray4FC | Fault counter 381-108-00: Lead Edge Late To Tray 2 Sensor From Tray 4 Fault | Range = 0 to 255 | 0 |
| 609-083 | TELateFmTray1F eedSnsrFC | Fault counter 381-111-00: Trail Edge Late From Tray 1 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-084 | TELateFmTray2F eedSnsrFC | Fault counter 381-112-00: Trail Edge Late From Tray 2 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-085 | TELateFmTray3F eedSnsrFC | Fault counter 381-113-00: Trail Edge Late From Tray 3 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-086 | TELateFmTray4F eedSnsrFC | Fault counter 381-114-00: Trail Edge Late From Tray 4 Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-087 | Tray1HoistFailFC | Fault counter 371-100-00: Tray 1 Hoist Failure Fault | Range = 0 to 255 | 0 |
| 609-088 | Tray1OpenWhile FeedingFC | Fault counter 371-500-00: Tray 1 Open While Feeding Fault | Range = 0 to 255 | 0 |
| 609-089 | Tray2HoistFailFC | Fault counter 372-100-00: Tray 2 Hoist Failure Fault | Range = 0 to 255 | 0 |
| 609-090 | Tray2OpenWhile FeedingFC | Fault counter 372-500-00: Tray 2 Open While Feeding Fault | Range = 0 to 255 | 0 |
| 609-091 | Tray3HoistFailFC | Fault counter 373-100-00: Tray 3 Hoist Failure Fault | Range = 0 to 255 | 0 |
| 609-092 | Tray3OpenWhile FeedingFC | Fault counter 373-500-00: Tray 3 Open While Feeding Fault | Range = 0 to 255 | 0 |
| 609-093 | Tray4HoistFailFC | Fault counter 374-100-00: Tray 4 Hoist Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|------------------|---------|
| 609-094 | Tray4OpenWhile FeedingFC | Fault counter 374-500-00: Tray 4 Open While Feeding Fault | Range = 0 to 255 | 0 |
| 609-095 | PfpTrayHoist- FailFC | Fault counter 375-100-00: Pfp Tray Hoist Failure Fault | Range = 0 to 255 | 0 |
| 609-096 | PfpTrayLower- FailFC | Fault counter 375-101-00: Pfp Tray Lower Failure Fault | Range = 0 to 255 | 0 |
| 609-097 | PfpOpenWhile- FeedingFC | Fault counter 375-500-00: Pfp Open While Feeding Fault | Range = 0 to 255 | 0 |
| 609-098 | PfpUndockedIn- RunFC | Fault counter 375-510-00: Pfp Undocked In Run Fault | Range = 0 to 255 | 0 |
| 609-099 | LELateToPfpWait- PointSnsrFC | Fault counter 381-115-00: Lead Edge Late To Pfp Wait Point Sensor Fault | Range = 0 to 255 | 0 |
| 609-100 | LELateToPfp- FeedSnsrFC | Fault counter 381-117-00: Lead Edge Late To Pfp Feed Sensor Fault | Range = 0 to 255 | 0 |
| 609-101 | LELateToRegSn- srFmPfmFC | Fault counter 381-150-00: Lead Edge Late To Registra- tion Sensor From Pfm Fault | Range = 0 to 255 | 0 |
| 609-102 | TELateToRegSn- srAfterClutch- OnFC | Fault counter 381-151-00: Trail Edge Late To Reg Sensor After Clutch On Fault | Range = 0 to 255 | 0 |
| 609-103 | LELateToRegSn- srFmMsiFC | Fault counter 381-155-00: Lead Edge Late To Registra- tion Sensor From Msi Fault | Range = 0 to 255 | 0 |
| 609-104 | StrayShtFmMsi- AtRegSnsrFC | Fault counter 381-156-00: Stray Sheet From Msi At Reg Sensor Fault | Range = 0 to 255 | 0 |
| 609-105 | UnexpTmoutFor- ShtTypeFC | Fault counter 381-171-00: Unexpected Timeout For- Sheet Type Fault | Range = 0 to 255 | 0 |
| 609-106 | ppmissingPreReleasedShtFC | Fault counter 381-174-00: pp missing Pre Released Sheet Fault | Range = 0 to 255 | 0 |
| 609-107 | UnableToFeedN- extShtFC | Fault counter 381-180-00: Unable To Feed Next Sheet Fault | Range = 0 to 255 | 0 |
| 609-108 | LELateToDplxSn- srFC | Fault counter 383-160-00: Lead Edge Late To Duplex Sensor Fault | Range = 0 to 255 | 0 |
| 609-109 | TELateToDplxSn- srAfterClutch- OnFC | Fault counter 383-161-00: Trail Edge Late To Duplex Sensor After Clutch On Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-110 | PpUnexpTmout- ForShtTypeSim- pInvFC | Fault counter 383-181-00: Pp Unexpected Timeout For Sheet Type Simp Inv Fault | Range = 0 to 255 | 0 |
| 609-111 | PpUnexpTmout- ForShtTypeD- plxFC | Fault counter 383-182-00: Pp Unexpected Timeout For Sheet Type Duplex Fault | Range = 0 to 255 | 0 |
| 609-112 | StrayShtDetect- PostJamClearFC | Fault counter 383-190-00: StraySheetDetectedPostJam- ClearanceFault | Range = 0 to 255 | 0 |
| 609-113 | TopCoverOpenIn- RunFC | Fault counter 301-310-00: Top Cover Open In Run Fault | Range = 0 to 255 | 0 |
| 609-114 | FinTamp1FrontM oveFailFC | Fault counter 311-005-00: Fin Tamper 1 Front Move Failure Fault | Range = 0 to 255 | 0 |
| 609-115 | FinTamp1RearMo veFailFC | Fault counter 311-006-00: Fin Tamper 1 Rear Move Failure Fault | Range = 0 to 255 | 0 |
| 609-116 | FinTamp2FrontM oveFailFC | Fault counter 311-007-00: Fin Tamper 2 Front Move Failure Fault | Range = 0 to 255 | 0 |
| 609-117 | FinTamp2RearMo veFailFC | Fault counter 311-008-00: Fin Tamper 2 Rear Move Failure- Fault | Range = 0 to 255 | 0 |
| 609-118 | FinCompilerCar- riageHomeFailFC | Fault counter 311-012-00: Fin Compiler Carriage Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-119 | FinCompilerCar- riageMoveFailFC | Fault counter 311-014-00: Fin Compiler Carriage Move Failure Fault | Range = 0 to 255 | 0 |
| 609-120 | FinPaddleRoll- HomeFailFC | Fault counter 311-024-00: Fin Paddle Roll Home Failure Fault | Range = 0 to 255 | 0 |
| 609-121 | FinPaddleRollCy- cleFailFC | Fault counter 311-025-00: Fin Paddle Roll Cycle Failure Fault | Range = 0 to 255 | 0 |
| 609-122 | FinPaddleRoller- NotHomeFailFC | Fault counter 311-026-00: Fin Paddle Roller Not Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-123 | FinBin1MoveFail FC | Fault counter 311-030-00: Fin Bin 1 Move Failure Fault | Range = 0 to 255 | 0 |
| 609-124 | FinBin1OffsetMov eFailFC | Fault counter 311-031-00: Fin Bin 1 Offset Move Failure Fault | Range = 0 to 255 | 0 |
| 609-125 | FinBin2MoveFail FC | Fault counter 311-036-00: Fin Bin 2 Move Failure Fault | Range = 0 to 255 | 0 |
| 609-126 | FinBin2OffsetMov eFailFC | Fault counter 311-040-00: Fin Bin 2 Offset Move Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|------------------|---------|
| 609-127 | FinPunchHead- CycleFailFC | Fault counter 311-043-00: Fin Punch Head Cycle Failure Fault | Range = 0 to 255 | 0 |
| 609-128 | FinPunchHead- RtrnHomeFailFC | Fault counter 311-044-00: Fin Punch Head Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-129 | FinPunchHead- StuckHome- FailFC | Fault counter 311-045-00: Fin Punch Head Stuck Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-130 | FinPunchUnitH- omeFlagFailFC | Fault counter 311-046-00: Fin Punch Unit Home Flag Failure Fault | Range = 0 to 255 | 0 |
| 609-131 | FinPunchUnitH- omeFailFC | Fault counter 311-047-00: Fin Punch Unit Home Failure Fault | Range = 0 to 255 | 0 |
| 609-132 | FinStapleHead1C ycleFailFC | Fault counter 311-050-00: Fin Staple Head 1 Cycle Failure Fault | Range = 0 to 255 | 0 |
| 609-133 | FinStapleUnit1Mo veFailFC | Fault counter 311-053-00: Fin Staple Unit 1 Move Failure Fault | Range = 0 to 255 | 0 |
| 609-134 | FinPPIBottom- PlateHomeFailFC | Fault counter 311-056-00: Fin PPI Bottom Plate Home Failure Fault | Range = 0 to 255 | 0 |
| 609-135 | FinPPIBottom- PlateLiftFailFC | Fault counter 311-057-00: Fin PPI Bottom Plate Lift Failure Fault | Range = 0 to 255 | 0 |
| 609-136 | FinBBCreaseBla- deMoveFailFC | Fault counter 311-061-00: Fin BB Crease Blade Move Failure Fault | Range = 0 to 255 | 0 |
| 609-137 | FinBBCreaseRoll- FailFC | Fault counter 311-062-00: Fin BB Crease Roll Failure Fault | Range = 0 to 255 | 0 |
| 609-138 | FinBBStapleHead 1MoveFailFC | Fault counter 311-063-00: Fin BB Staple Head 1 Move Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-139 | FinBBBackStop- StartFailFC | Fault counter 311-065-00: Fin BB Back Stop Start Failure Fault | Range = 0 to 255 | 0 |
| 609-140 | FinBBTamp1Mov eFailFC | Fault counter 311-066-00: Fin BB Tamper 1 Move Failure Fault | Range = 0 to 255 | 0 |
| 609-141 | FinBBTapeFeed- MoveFCFC | Fault counter 311-072-00: Fin BB Tape Feed Move Fault Fault | Range = 0 to 255 | 0 |
| 609-142 | FinBBCooling- FanFCFC | Fault counter 311-073-00: Fin BB Cooling Fan Fault Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-143 | FinBBHeater- UnderTempera- tureFC | Fault counter 311-077-00: Fin BB Heater Under Temperature Fault | Range = 0 to 255 | 0 |
| 609-144 | FinBBHeat- erOverTempera- tureFC | Fault counter 311-078-00: Fin BB Heater Over Temperature Fault | Range = 0 to 255 | 0 |
| 609-145 | FinPaperPusher- MtrStalledFC | Fault counter 311-083-00: Fin Paper Pusher Motor Stalled Fault | Range = 0 to 255 | 0 |
| 609-146 | LELateToFinEn- trySnsrFC | Fault counter 311-100-00: Lead Edge Late To Fin Entry Sensor Fault | Range = 0 to 255 | 0 |
| 609-147 | FinTELateFmEntranceSnsrFC | Fault counter 311-101-00: Fin TE Late From Entrance Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-148 | LELateToFin- PunchSnsrFC | Fault counter 311-110-00: Lead Edge Late To Fin Punch Sensor Fault | Range = 0 to 255 | 0 |
| 609-149 | LELateToFin- CompilerEntrySn- srFC | Fault counter 311-120-00: Lead Edge Late To Fin Com- piler Entry Sensor Fault | Range = 0 to 255 | 0 |
| 609-150 | TELateFmFin- CompilerEntrySn- srFC | Fault counter 311-122-00: Trail Edge Late From Fin Compiler Entry Sensor Fault | Range = 0 to 255 | 0 |
| 609-151 | LELateToFin- TopExitSnsrFC | Fault counter 311-130-00: Lead Edge Late To Fin Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-152 | TELateFmFin- TopExitSnsrFC | Fault counter 311-132-00: Trail Edge Late From Fin Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-153 | LELateToFin2ndT opExitSnsrFC | Fault counter 311-140-00: Lead Edge Late To Fin 2nd Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-154 | TELateFmFin2nd TopExitSnsrFC | Fault counter 311-142-00: Trail Edge Late From Fin 2nd Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-155 | LELateToFin3rdT opExitSnsrFC | Fault counter 311-150-00: Lead Edge Late To Fin 3rd Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-156 | TELateFmFin3rd TopExitSnsrFC | Fault counter 311-152-00: Trail Edge Late From Fin 3rd Top Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-157 | FinLELateTo- BufferPosSnsrFC | Fault counter 311-157-00: Fin LE Late To Buffer Position Sensor Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-158 | FinLELate- ToExitHVFIn- toBMSnsrFC | Fault counter 311-158-00: Fin LE Late To Exit HVF Into BM Sensor Fault | Range = 0 to 255 | 0 |
| 609-159 | LELateToBBEn- trySnsrFC | Fault counter 311-160-00: Lead Edge Late To BB Entry Sensor Fault | Range = 0 to 255 | 0 |
| 609-160 | FinTELateFm- BufferPosSnsrFC | Fault counter 311-161-00: Fin TE Late From Buffer Position Sensor Fault | Range = 0 to 255 | 0 |
| 609-161 | TELateFmBBEn- trySnsrFC | Fault counter 311-162-00: Trail Edge Late From BB Entry Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-162 | Fin- TELateFmExitH- VFIntoBMSnsrFC | Fault counter 311-163-00: Fin TE Late From Exit HVF Into BM Sensor Fault | Range = 0 to 255 | 0 |
| 609-163 | FinTELateFm- BufferPathSn- srFC | Fault counter 311-164-00: Fin TE Late From Buffer Path Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-164 | FinLELateTo- BufferPathSn- srFC | Fault counter 311-165-00: Fin LE Late To Buffer Path Sensor Fault | Range = 0 to 255 | 0 |
| 609-165 | LELateToBBCom- pilerExitSnsrFC | Fault counter 311-170-00: Lead Edge Late To BB Com- piler Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-166 | TELateFmB- BCompilerSn- srFC | Fault counter 311-172-00: Trail Edge Late From BB Compiler Sensor Fault | Range = 0 to 255 | 0 |
| 609-167 | FinOffsetUnitInit- FailFC | Fault counter 311-173-00: Fin Offset UnitInitialization Failure Fault | Range = 0 to 255 | 0 |
| 609-168 | FinOffsetUnitR- trnHomeFailFC | Fault counter 311-174-00: Fin Offset Unit Return Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-169 | FinOffsetUnitH- omeFailFC | Fault counter 311-175-00: Fin Offset Unit Home Failure Fault | Range = 0 to 255 | 0 |
| 609-170 | FinOffsetUnitRtr- nAwayHome- FailFC | Fault counter 311-176-00: Fin Offset Unit Return Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-171 | FinOffsetUnit- AwayHome- FailFC | Fault counter 311-177-00: Fin Offset Unit Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-172 | LELateToBBEx- itSnsrFC | Fault counter 311-180-00: Lead Edge Late To BB Exit Sensor Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-173 | TELateFmBBEx- itSnsrFC | Fault counter 311-182-00: Trail Edge Late From BB Exit Sen- sor Fault | Range = 0 to 255 | 0 |
| 609-174 | FinBMUnexpSht- DetectFC | Fault counter 311-183-00: Fin BM Unexpected Sheet Detected Fault | Range = 0 to 255 | 0 |
| 609-175 | FinBMStryShtDe- tectPostJam- ClearFC | Fault counter 311-184-00: Fin BM Stray Sheet Detected Post Jam Clearance Fault | Range = 0 to 255 | 0 |
| 609-176 | FinLELateToT- FExitSnsrFC | Fault counter 311-185-00: Fin LE Late To TF Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-177 | FinTELateFmT- FExitSnsrFC | Fault counter 311-186-00: Fin TE Late From TF Exit Sensor Fault | Range = 0 to 255 | 0 |
| 609-178 | FinLELateToT- FAssistSnsrFC | Fault counter 311-187-00: Fin LE Late To TF Assist Sensor Fault | Range = 0 to 255 | 0 |
| 609-179 | FinNipSplitFailFC | Fault counter 311-188-00: Fin Nip Split Failure Fault | Range = 0 to 255 | 0 |
| 609-180 | FinNipHome- FailFC | Fault counter 311-189-00: Fin Nip Home Failure Fault | Range = 0 to 255 | 0 |
| 609-181 | FinLELateToPPI- TabStandbySn- srFC | Fault counter 311-191-00: Fin LE Late ToP PI Tab Standby Sensor Fault | Range = 0 to 255 | 0 |
| 609-182 | FinTELateFmPPI- TabStandbySn- srFC | Fault counter 311-193-00: Fin TE Late From PPI Tab Standby Sensor Fault | Range = 0 to 255 | 0 |
| 609-183 | FinLELateToPPI- PickupSnsrFC | Fault counter 311-194-00: Fin LE Late To PPI Pickup Sensor Fault | Range = 0 to 255 | 0 |
| 609-184 | FinTELateFmPPI- TrayPickupSn- srFC | Fault counter 311-196-00: Fin TE Late From PPI Tray Pickup Sensor Fault | Range = 0 to 255 | 0 |
| 609-185 | FinStrayShtDe- tectPostJam- ClearFC | Fault counter 311-198-00: Fin Stray Sheet Detected Post Jam Clearance Fault | Range = 0 to 255 | 0 |
| 609-186 | UnexpShtDe- tectFC | Fault counter 311-199-00: Unexpected Sheet Detected Fault | Range = 0 to 255 | 0 |
| 609-187 | FinUnDockedIntl- ckInRunFC | Fault counter 311-300-00: Fin UnDocked Interlock In Run Fault | Range = 0 to 255 | 0 |
| 609-188 | FinEntryGateIntl- ckOpenInRunFC | Fault counter 311-301-00: Fin Entry Gate Interlock Open In Run Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 609-189 | FinTopCoverIntl- ckOpenInRunFC | Fault counter 311-302-00: Fin Top Cover Interlock Open In Run Fault | Range = 0 to 255 | 0 |
| 609-190 | FinFrontDoorIntl- ckOpenInRunFC | Fault counter 311-303-00: Fin Front Door Interlock Open In Run Fault | Range = 0 to 255 | 0 |
| 609-191 | FinTopGateIntlck- OpenInRunFC | Fault counter 311-304-00: Fin Top Gate Interlock Open In Run Fault | Range = 0 to 255 | 0 |
| 609-192 | FinBotExit- GateIntlckOpen- InRunFC | Fault counter 311-305-00: Fin Bottom Exit Gate Interlock Open In Run Fault | Range = 0 to 255 | 0 |
| 609-193 | FinPPITopCover- IntlckOpenIn- RunFC | Fault counter 311-306-00: Fin PPI Top Cover Interlock Open In Run Fault | Range = 0 to 255 | 0 |
| 609-194 | FinTrifoldTopCov- erOpenInRunFC | Fault counter 311-307-00: Fin Trifold Top Cover Open In Run Fault | Range = 0 to 255 | 0 |
| 609-195 | FinTrifoldFront- DoorOpenIn- RunFC | Fault counter 311-308-00: Fin Trifold Front Door Open In Run Fault | Range = 0 to 255 | 0 |
| 609-196 | FinInsLeftHand- DoorOpenIn- RunFC | Fault counter 311-309-00: Fin Inserter LeftHand Door Open In Run Fault | Range = 0 to 255 | 0 |
| 609-197 | FinTamp1FrontHo meFailFC | Fault counter 311-310-00: Fin Tamper 1 Front Home Failure Fault | Range = 0 to 255 | 0 |
| 609-198 | FinTamp1RearHo meFailFC | Fault counter 311-311-00: Fin Tamper 1 Rear Home Failure Fault | Range = 0 to 255 | 0 |
| 609-199 | FinTamp2FrontHo meFailFC | Fault counter 311-312-00: Fin Tamper 2 Front Home Failure Fault | Range = 0 to 255 | 0 |
| 609-200 | FinTamp2RearHo meFailFC | Fault counter 311-313-00: Fin Tamper 2 Rear Home Failure Fault | Range = 0 to 255 | 0 |
| 609-201 | FinComplerCar- riageTravelFai- IUpFC | Fault counter 311-315-00: Fin Compiler Carriage Over Travel Failure Up Fault | Range = 0 to 255 | 0 |
| 609-202 | FinComplrCar- riageTravelFail- LowFC | Fault counter 311-316-00: Fin Compiler Carriage Over Travel Failure Low Fault | Range = 0 to 255 | 0 |
| 609-203 | FinRearTamp- AwayHomeSnsr- FailFC | Fault counter 311-319-00: Fin Rear Tamper Away Home Sensor Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---|------------------|---------|
| 609-204 | FinCompilerEjectorHomeFailFC | Fault counter 311-320-00: Fin Compiler Ejector Home Failure Fault | Range = 0 to 255 | 0 |
| 609-205 | FinCompilerEjectorCycleFailFC | Fault counter 311-322-00: Fin Compiler Ejector Cycle Failure Fault | Range = 0 to 255 | 0 |
| 609-206 | FinBin1OverTrav elFailUpperFC | Fault counter 311-334-00: Fin Bin 1 Over Travel Failure Upper Fault | Range = 0 to 255 | 0 |
| 609-207 | FinBin1OverTrav elFailLowerFC | Fault counter 311-335-00: Fin Bin 1 Over Travel Failure Lower Fault | Range = 0 to 255 | 0 |
| 609-208 | FinBin1HomeFail FC | Fault counter 311-336-00: Fin Bin 1 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-209 | FinBin1OffsetHo meFailFC | Fault counter 311-337-00: Fin Bin 1 Offset Home Failure Fault | Range = 0 to 255 | 0 |
| 609-210 | FinBin2OverTrav elFailUpperFC | Fault counter 311-344-00: Fin Bin 2 Over Travel Failure Upper Fault | Range = 0 to 255 | 0 |
| 609-211 | FinBin2OverTrav elFailLowerFC | Fault counter 311-345-00: Fin Bin 2 Over Travel Failure Lower Fault | Range = 0 to 255 | 0 |
| 609-212 | FinBin2HomeFail FC | Fault counter 311-346-00: Fin Bin 2 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-213 | FinBin2OffsetHo meFailFC | Fault counter 311-347-00: Fin Bin 2 Offset Home Failure Fault | Range = 0 to 255 | 0 |
| 609-214 | FinPunchHead- HomeFailFC | Fault counter 311-350-00: Fin Punch Head Home Failure Fault | Range = 0 to 255 | 0 |
| 609-215 | FinStapleHead1H omeFailFC | Fault counter 311-360-00: Fin Staple Head 1 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-216 | FinStapleHead1N otPrimedFC | Fault counter 311-364-00: Fin Staple Head 1 Not Primed Fault | Range = 0 to 255 | 0 |
| 609-217 | FinStapleUnit1Ho meFailFC | Fault counter 311-370-00: Fin Staple Unit 1 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-218 | FinStaplerHome- FailFC | Fault counter 311-371-00: Fin Stapler Home Failure Fault | Range = 0 to 255 | 0 |
| 609-219 | FinStaplerRtrnHo- meFailFC | Fault counter 311-372-00: Fin Stapler Return Home Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-220 | FinStaplerMiddle- HomeFailFC | Fault counter 311-373-00: Fin Stapler Middle Home Failure Fault | Range = 0 to 255 | 0 |
| 609-221 | FinStaplerStuck- MiddleHome- FailFC | Fault counter 311-374-00: Fin Stapler Stuck Middle Home Failure Fault | Range = 0 to 255 | 0 |
| 609-222 | FinStapler- JawHomeFailFC | Fault counter 311-375-00: Fin Stapler Jaw Home Failure Fault | Range = 0 to 255 | 0 |
| 609-223 | FinStaplerJaw- StuckHome- FailFC | Fault counter 311-376-00: Fin Stapler Jaw Stuck Home Failure Fault | Range = 0 to 255 | 0 |
| 609-224 | FinStaplerPrim- ingFailFC | Fault counter 311-377-00: Fin Stapler Priming Failure Fault | Range = 0 to 255 | 0 |
| 609-225 | FinPunchPa- prSideEdgeDe- tectFailFC | Fault counter 311-380-00: Fin Punch Unit Paper Side Edge Detecting Failure Fault | Range = 0 to 255 | 0 |
| 609-226 | FinBBBackSto- pHomeFailFC | Fault counter 311-383-00: Fin BB Back Stop Home Failure Fault | Range = 0 to 255 | 0 |
| 609-227 | FinBBTamp1Hom eFailFC | Fault counter 311-384-00: Fin BB Tamper 1 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-228 | FinBBFlapper- HomeFailFC | Fault counter 311-391-00: Fin BB Flapper Home Failure Fault | Range = 0 to 255 | 0 |
| 609-229 | FinFront- TampTrayHome- FailFC | Fault counter 311-392-00: Fin Front Tamper Tray Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-230 | FinFront- TampTrayRtrnHo- meFailFC | Fault counter 311-393-00: Fin Front Tamper Tray Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-231 | FinFront- TampTrayAway- HomeFailFC | Fault counter 311-394-00: Fin Front Tamper Tray Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-232 | FinFrontTamp- StuckAwayHome- FailFC | Fault counter 311-395-00: Fin Front Tamper Tray Stuck Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-233 | Fin- RearTampTray- HomeFailFC | Fault counter 311-396-00: Fin Rear Tamper Tray Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-234 | Fin- RearTampTrayR- trnHomeFailFC | Fault counter 311-397-00: Fin Rear Tamper Tray Return Home Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-235 | Fin- RearTampTray- AwayHomeFailF C | Fault counter 311-398-00: Fin Rear Tamper Tray Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-236 | FinRearTampRtr- nAwayHome- FailFC | Fault counter 311-399-00: Fin Rear Tamper Tray Return Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-237 | FinBBStapleHead 2MoveFailFC | Fault counter 311-403-00: Fin BB Staple Head 2 Move Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-238 | FinBBStapleHead 1HomeFailFC | Fault counter 311-411-00: Fin BB Staple Head 1 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-239 | FinBBStapleHead 2HomeFailFC | Fault counter 311-413-00: Fin BB Staple Head 2 Home Fail- ureF ault | Range = 0 to 255 | 0 |
| 609-240 | FinBMStapler- ModuleHomeFC | Fault counter 311-414-00: Fin BM Stapler Module Home Fault | Range = 0 to 255 | 0 |
| 609-241 | FinBBCreaseRoll- GateHomeFailFC | Fault counter 311-415-00: Fin BB Crease Roll Gate Home Failure Fault | Range = 0 to 255 | 0 |
| 609-242 | FinBBCreaseBla- deHomeFailFC | Fault counter 311-416-00: Fin BB Crease Blade Home Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-243 | FinBMFlapper- HomeFailFC | Fault counter 311-417-00: Fin BM Flapper Home Failure Fault | Range = 0 to 255 | 0 |
| 609-244 | FinBMFlapper- MoveFailFC | Fault counter 311-418-00: Fin BM Flapper Move Failure Fault | Range = 0 to 255 | 0 |
| 609-245 | FinBMTamp2Hom eFailFC | Fault counter 311-419-00: Fin BM Tamper 2 Home Failure Fault | Range = 0 to 255 | 0 |
| 609-246 | FinBMTamp2Mov eFailFC | Fault counter 311-420-00: Fin BM Tamper 2 Move Failure Fault | Range = 0 to 255 | 0 |
| 609-247 | FinKickerCycle- FailFC | Fault counter 311-430-00: Fin Kicker Cycle Failure Fault | Range = 0 to 255 | 0 |
| 609-248 | FinPaperPusher- RtrnHomeFailFC | Fault counter 311-440-00: Fin Paper Pusher Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-249 | FinPaperPusher- HomeFailFC | Fault counter 311-441-00: Fin Paper Pusher Home Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 609-250 | FinPaperPusher- RtrnAwayHome- FailFC | Fault counter 311-442-00: Fin Paper Pusher Return Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-251 | FinPaperPusher- AwayHome- FailFC | Fault counter 311-443-00: Fin Paper Pusher Away Home Failure Fault | Range = 0 to 255 | 0 |
| 609-252 | FinEjectorMod- uleMtrStallFC | Fault counter 311-450-00: Fin Ejector Module Motor Stall Fault | Range = 0 to 255 | 0 |
| 609-253 | FinEjector- PlateMtrStall- FailFC | Fault counter 311-451-00: Fin Ejector Plate Motor Stall Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-254 | FinEjectorPlateR- trnHomeFailFC | Fault counter 311-452-00: Fin Ejector Plate Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-255 | FinEjectorPlate- HomeFailFC | Fault counter 311-453-00: Fin Ejector Plate Home Failure Fault | Range = 0 to 255 | 0 |
| 609-256 | FinLowerPadd- leRtrnHome- FailFC | Fault counter 311-454-00: Fin Lower Paddle Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-257 | FinLowerPaddle- HomeFailFC | Fault counter 311-455-00: Fin Lower Paddle Home Failure Fault | Range = 0 to 255 | 0 |
| 609-258 | FinEjectorModu- leRtrnHome- FailFC | Fault counter 311-456-00: Fin Ejector Module Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-259 | FinEjectorMod- uleHomeFailFC | Fault counter 311-457-00: Fin Ejector Module Home Failure Fault | Range = 0 to 255 | 0 |
| 609-260 | FinEjectorModu- leRtrnOutFailFC | Fault counter 311-458-00: Fin Ejector Module Return Out Failure Fault | Range = 0 to 255 | 0 |
| 609-261 | FinEjectorModu- leOutFailFC | Fault counter 311-459-00: Fin Ejector Module Out Failure Fault | Range = 0 to 255 | 0 |
| 609-262 | FinStacker- MtrStallFailFC | Fault counter 311-460-00: Fin Stacker Motor Stall Failure Fault | Range = 0 to 255 | 0 |
| 609-263 | FinStackerBinHo- meFailFC | Fault counter 311-461-00: Fin Stacker Bin Home Failure Fault | Range = 0 to 255 | 0 |
| 609-264 | FinStackerBin- MoveFailFC | Fault counter 311-462-00: Fin Stacker Bin Move Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-265 | FinBM24vUnavail ableAtInputFC | Fault counter 311-463-00: Fin BM 24v Unavailable At Input Fault | Range = 0 to 255 | 0 |
| 609-266 | FinBM24vInternal FailFC | Fault counter 311-464-00: Fin BM 24v Internal Failure Fault | Range = 0 to 255 | 0 |
| 609-267 | FinPaddleUnitRtr- nUpperFailFC | Fault counter 311-465-00: Fin Paddle Unit Return Upper Failure Fault | Range = 0 to 255 | 0 |
| 609-268 | FinPaddleUnitNo- tUpperFailFC | Fault counter 311-466-00: Fin Paddle Unit Not Upper Failure Fault | Range = 0 to 255 | 0 |
| 609-269 | FinPaddleUnitR- trnLowerFailFC | Fault counter 311-467-00: Fin Paddle Unit Return Lower Fail- ure Fault | Range = 0 to 255 | 0 |
| 609-270 | FinPaddleUnit- NotLowerFailFC | Fault counter 311-468-00: Fin Paddle Unit Not Lower Failure Fault | Range = 0 to 255 | 0 |
| 609-271 | FinCurlSuppres- sorRtrnHome- FailFC | Fault counter 311-469-00: Fin Curl Suppressor Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-272 | FinCurlSuppres- sorHomeFailFC | Fault counter 311-470-00: Fin Curl Suppressor Home Failure Fault | Range = 0 to 255 | 0 |
| 609-273 | FinCurlSuppres- sorRtrnAway- FailFC | Fault counter 311-471-00: Fin Curl Suppressor Return Away Failure Fault | Range = 0 to 255 | 0 |
| 609-274 | FinCurlSuppres- sorAwayFailFC | Fault counter 311-472-00: Fin Curl Suppressor Away Failure Fault | Range = 0 to 255 | 0 |
| 609-275 | FinPressSupport- MtrRtrnInitFailFC | Fault counter 311-473-00: Fin Pressing Support Motor Return Init Failure Fault | Range = 0 to 255 | 0 |
| 609-276 | FinPressSupport- MtrInitFailFC | Fault counter 311-474-00: Fin Pressing Support Motor Init Failure Fault | Range = 0 to 255 | 0 |
| 609-277 | FinPressSupport- MtrRtrnHome- FailFC | Fault counter 311-475-00: Fin Pressing Support Motor Return Home Failure Fault | Range = 0 to 255 | 0 |
| 609-278 | FinPressSupport- MtrHomeFailFC | Fault counter 311-476-00: Fin Pressing Support Motor Home Failure Fault | Range = 0 to 255 | 0 |
| 609-279 | FinPressSupport- MtrRtrnOutFailFC | Fault counter 311-477-00: Fin Pressing Support Motor Return Out Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|--|--------------------|---------|
| 609-280 | FinPressSupport- MtrOutFailFC | Fault counter 311-478-00: Fin Pressing Support Motor Out Failure Fault | Range = 0 to 255 | 0 |
| 609-281 | FinShortShtFed- FmInserterFC | Fault counter 311-479-00: Fin Short Sheet Fed From Inserter Fault | Range = 0 to 255 | 0 |
| 609-282 | OctNotInIndex- PosFC | Fault counter 311-701-00: Oct Not InIndex Position Fault | Range = 0 to 255 | 0 |
| 609-283 | Tray 9 Media Type | Tray 9 Media Type | Range = 0 to 102 | 0 |
| 609-284 | Tray 9 Media Color | Tray 9 Media Color | Range = 0 to 34 | 0 |
| 609-285 | Tray 9 Media Weight | Tray 9 Media Weight | Range = 60 to 216 | 75 |
| 609-286 | Tray 9 Direct Select | Tray 9 Direct Select | Range = 0 to 1 | 1 |
| 609-287 | Tray 9 Priority | Tray 9 Priority | Range = 1 to 99 | 5 |
| 609-288 | Tray 9 Width | Tray 9 Width | Range = 216 to 432 | 216 |
| 609-289 | Tray 9 Length | Tray 9 Length | Range = 279 to 279 | 279 |
| 609-290 | Tray 9 Percent Full | Tray 9 Percent Full | Range = 0 to 100 | 0 |
| 609-291 | Tray 9 User Type | Tray 9 User Type | Range = 1 to 1 | 1 |
| 609-292 | Tray 9 Modulus | Tray 9 Modulus | Range = 0 to 100 | 0 |
| 609-293 | Tray 9 Modulus Position | Tray 9 Modulus Position | Range = 1 to 100 | 1 |
| 609-294 | Tray 10 Media Type | Tray 10 Media Type | Range = 0 to 102 | 0 |
| 609-295 | Tray 10 Media Color | Tray 10 Media Color | Range = 0 to 34 | 0 |
| 609-296 | Tray 10 Media Weight | Tray 10 Media Weight | Range = 60 to 216 | 75 |
| 609-297 | Tray 10 Direct Select | Tray 10 Direct Select | Range = 0 to 1 | 1 |
| 609-298 | Tray 10 Priority | Tray 10 Priority | Range = 1 to 99 | 5 |
| 609-299 | Tray 10 Width | Tray 10 Width | Range = 297 to 297 | 297 |
| 609-300 | Tray 10 Length | Tray 10 Length | Range = 210 to 210 | 210 |
| 609-301 | Tray 10 Percent Full | Tray 10 Percent Full | Range = 0 to 100 | 0 |
| 609-302 | Tray 10 User Type | Tray 10 User Type | Range = 0 to 0 | 0 |
| 609-303 | Tray 10 Modulus | Tray 10 Modulus | Range = 0 to 100 | 0 |
| 609-304 | Tray 10 Modulus Position | Tray 10 Modulus Position | Range = 1 to 100 | 1 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---|---|---------|
| 609-305 | Tray 11 Media Type | Tray 11 Media Type | Range = 0 to 102 | 0 |
| 609-306 | Tray 11 Media Color | Tray 11 Media Color | Range = 0 to 34 | 0 |
| 609-307 | Tray 11 Media Weight | Tray 11 Media Weight | Range = 60 to 216 | 75 |
| 609-308 | Tray 11 Direct Select | Tray 11 Direct Select | Range = 0 to 1 | 1 |
| 609-309 | Tray 11 Priority | Tray 11 Priority | Range = 1 to 99 | 5 |
| 609-310 | Tray 11 Width | Tray 11 Width | Range = 279 to 356 | 279 |
| 609-311 | Tray 11 Length | Tray 11 Length | Range = 216 to 216 | 216 |
| 609-312 | Tray 11 Percent Full | Tray 11 Percent Full | Range = 0 to 100 | 0 |
| 609-313 | Tray 11 User Type | Tray 11 User Type | Range = 1 to 1 | 1 |
| 609-314 | Tray 11 Modulus | Tray 11 Modulus | Range = 0 to 100 | 0 |
| 609-315 | Tray 11 Modulus Position | Tray 11 Modulus Position | Range = 1 to 100 | 1 |
| 609-316 | PFP Kit Type installed in PFP | PFP Kit Type installed in PFP | 0 = Standard (A4 & Letter LEF) 1 = Kit A (A3 SEF & A4 LEF) 2 = Kit A (11x17 SEF & 8.5x11 LEF) 3 = Kit B (A4, SEF) 4 = Kit B (Letter, Legal SEF) | 0 |
| 609-317 | Reset Fault Trig- ger | Number of reset faults before actually resetting the system | 0 = reset with every reset fault n = number of reset faults before system reset | 3 |
| 609-318 | Tray4FeedRollsLi feCount | Tray 4 Feed Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-319 | Tray4FeedRollsE xpLife | Tray 4 Feed Rolls life expect- ancy | Range = 0 to 4294967295 | 400000 |
| 609-320 | Tray4FeedRollsIn stDate | Tray 4 Feed Rolls install date | Range = 0 to 4294967295 | 0 |
| 609-321 | Tray4FeedRollsR epCount | Tray 4 Feed Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-322 | Tray1TransportRo | Tray 1 Transport Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-323 | Tray1TransportRo IIsExpLife | Tray 1 Transport Rolls life expectancy | Range = 0 to 4294967295 | 600000 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|----------------------------|---------|
| 609-325 | Tray1TransportRo | Tray 1 Transport Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-326 | Tray2TransportR ollsLifeCount | Tray 2 Transport Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-327 | Tray2TransportR ollsExpLife | Tray 2 Transport Rolls life expectancy | Range = 0 to 4294967295 | 600000 |
| 609-329 | Tray2TransportR ollsRepCount | Tray 2 Transport Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-330 | Tray3/ 4TransportRollsLi feCount | Tray 3/4 Transport Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-331 | Tray3/ 4TransportRollsli mit | Tray 3/4 Transport Rolls life expectancy | Range = 0 to 4294967295 | 600000 |
| 609-333 | Tray3/ 4TransportRollsR epCount | Tray 3/4 Transport Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-334 | SplitDriveRollsLi- feCount | Split Drive Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-335 | SplitDriveRollsEx- pLife | Split Drive Rolls life expect- ancy | Range = 0 to 4294967295 | 600000 |
| 609-337 | SplitDriv- eRollsRepCount | Split Drive Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-338 | DuplexSensor- RollsLifeCount | Duplex Sensor Rolls life counter | Range = 0 to 4294967295 | 0 |
| 609-339 | DuplexSensor- RollsExpLife | Duplex Sensor Rolls life expectancy | Range = 0 to 4294967295 | 600000 |
| 609-341 | DuplexSensor- RollsRepCount | Duplex Sensor Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-342 | BiasFoamLife- Count | Bias Foam life counter | Range = 0 to 4294967295 | 0 |
| 609-343 | BiasFoamExpLife | Bias Foam life expectancy | Range = 0 to 4294967295 | 500000 |
| 609-345 | BiasFoamRep- Count | Bias Foam replacement counter | Range = 1 to 65535 | 1 |
| 609-346 | DeveloperDriveG- earLifeCount | Developer Drive Gear life counter | Range = 0 to 4294967295 | 0 |
| 609-346 | DeveloperDriveG- earExpLife | Developer Drive Gear life expectancy | Range = 0 to 4294967295 | 600000 |
| 609-347 | DeveloperDriveG- earExpLife | Developer Drive Gear life expectancy | Range = 0 to 4294967295 | 600000 |
| 609-349 | DeveloperDriveG- earRepCount | Developer Drive Gear replacement counter | Range = 1 to 65535 | 1 |
| 609-350 | PostFuserRollsLi- feCount | Post Fuser Rolls life counter | Range = 0 to 4294967295 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|---------|
| 609-351 | PostFuser- RollsExpLife | Post Fuser Rolls life expect- ancy | Range = 0 to 4294967295 | 600000 |
| 609-353 | PostFuser- RollsRepCount | Post Fuser Rolls replacement counter | Range = 1 to 65535 | 1 |
| 609-354 | HVFPaddleLife- Count | HVF Paddle life counter | Range = 0 to 4294967295 | 0 |
| 609-355 | HVFPaddleEx- pLife | HVF Paddle life expectancy | Range = 0 to 4294967295 | 200000 |
| 609-357 | HVFPaddleRep- Count | HVF Paddle replacement counter | Range = 1 to 65535 | 1 |
| 609-358 | BMLELateToBM- DetectSensor | Fault counter 311-494-00: BMLELateToBMDetectSensor | Range = 0 to 255 | 3 |
| 609-359 | BMTELateFrom- BMDetectSensor | Fault counter 311-496-00: BM TE Late From BM Detect Sen- sor | Range = 0 to 255 | 3 |
| 609-375 | BMSTAPLEHEA D1PRIMINGFAU LT | Fault counter 312-352-00: BM Staplehead 1 Priming Fault | Range = 0 to 255 | 0 |
| 609-376 | BMSTAPLEHEA D2PRIMINGFAU LT | Fault counter 312-353-00: BM Staplehead 2 Priming Fault | Range = 0 to 255 | 0 |
| 609-377 | LEDPRINT- HEADDATAIN- TEGRITYFAILUR E | Fault counter 361-100-00: LED Print head Data Integrity Fail- ure | Range = 0 to 255 | 0 |
| 609-378 | OFFSETCEN- TRETRAYMO- TORFAILURE | Fault counter 310-702-00: Off- set centre output tray Motor Failure | Range = 0 to 255 | 0 |
| 609-379 | TCNOTIN- RANGEFAULT | Fault counter 393-364-00: TC Not In Range Fault | Range = 0 to 255 | 0 |
| 609-380 | LELATETOHORI- ZONTALTRANS- PORT | Fault counter 310-170-00: LE Late To Horizontal Transport | Range = 0 to 255 | 0 |
| 609-381 | TELATEFROM- HORIZONTAL- TRANSPORT | Fault counter 310-171-00: TE Late From Horizontal Trans- port | Range = 0 to 255 | 0 |
| 609-382 | HORIZONTAL- TRANSPOR- TOPENINRUN | Fault counter 310-338-00: Horizontal Transport Open In Run | Range = 0 to 255 | 0 |
| 609-383 | LELATETOREG- SENSORSIM- PLEX | Fault counter 381-151-00: LE Late To Reg Sensor Simplex | Range = 0 to 255 | 0 |
| 609-384 | TELATETOREG- SENSORSIM- PLEX | Fault counter 381-152-00: TE Late To Reg Sensor Simplex | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|------------------|---------|
| 609-385 | LELATETO- POSTFUS- ERSENSORSIM PLEX | Fault counter 310-153-00: LE Late To Post Fuser Sensor Simplex | Range = 0 to 255 | 0 |
| 609-386 | TELATETO- POSTFUS- ERSENSORSIM PLEX | Fault counter 310-154-00: TE Late To Post Fuser Sensor Simplex | Range = 0 to 255 | 0 |
| 609-387 | LELATETODU- PLEXSENSOR | Fault counter 383-155-00: LE Late To Duplex Sensor | Range = 0 to 255 | 0 |
| 609-388 | TELATETODU- PLEXSENSOR | Fault counter 383-156-00: TE Late To Duplex Sensor | Range = 0 to 255 | 0 |
| 609-389 | LELATETO- FEEDHCFLH | Fault counter 381-136-00: LE Late To Feed HCF LH | Range = 0 to 255 | 0 |
| 609-390 | TELATETO- FEEDHCFLH | Fault counter 381-137-00: TE Late To Feed HCF LH | Range = 0 to 255 | 0 |
| 609-391 | LELATETOHCFE XITFROMTRAY3 | Fault counter 381-159-00: LE Late To HCF Exit From Tray 3 | Range = 0 to 255 | 0 |
| 609-392 | TELATETO- FEEDERRHTAR- SENSOR | Fault counter 381-160-00: TE Late To Feeder RH TAR Sen- sor | Range = 0 to 255 | 0 |
| 609-393 | LELATETO- FEEDHCFRH | Fault counter 381-146-00: LE Late To Feed HCF RH | Range = 0 to 255 | 0 |
| 609-394 | TELATETO- FEEDHCFRH | Fault counter 381-147-00: TE Late To Feed HCF RH | Range = 0 to 255 | 0 |
| 609-395 | LELATETOTAR1 SENSORFROMT RAY1 | Fault counter 381-106-00: LE Late To TAR 1 Sensor From Tray 1 | Range = 0 to 255 | 0 |
| 609-396 | LELATETOTAR2 SENSORFROMT RAY2 | Fault counter 381-126-00: LE Late To TAR 2 Sensor From Tray 2 | Range = 0 to 255 | 0 |
| 609-397 | TELATETOTAR1 SENSORFROMT RAY1 | Fault counter 381-107-00: TE Late To TAR 1 Sensor From Tray 1 | Range = 0 to 255 | 0 |
| 609-398 | TELATETOTAR2 SENSORFROMT RAY2 | Fault counter 381-127-00: TE Late To TAR 2 Sensor From Tray 2 | Range = 0 to 255 | 0 |
| 609-399 | FRUMISSIN- GORCOMMS- FAILUREFAULT | Fault counter 310-400-00: FRU Missing or Comms Failure Fault | Range = 0 to 255 | 0 |
| 609-400 | PCMISSINGOR- COMMSFAIL- UREFAULT | Fault counter 392-400-00: PC Missing or Comms Failure Fault | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 609-401 | LELATETO- POSTFUS- ERSENSORDUP LEX | Fault counter 310-163-00: LE Late To Post Fuser Sensor Duplex | Range = 0 to 255 | 0 |
| 609-402 | TELATETO- POSTFUS- ERSENSORDUP LEX | Fault counter 310-164-00: TE Late To Post Fuser Sensor Duplex | Range = 0 to 255 | 0 |
| 609-403 | TRAY1BUMPUP FAILURE | Fault counter 371-217-00: Tray1 Bump Up Failure | Range = 0 to 255 | 0 |
| 609-404 | LELATETOREG- SENSORDU- PLEX | Fault counter 381-161-00: LE Late To Registration Sensor Duplex | Range = 0 to 255 | 0 |
| 609-405 | TELATETOREG- SENSORDU- PLEX | Fault counter 381-162-00: TE Late To Registration Sensor Duplex | Range = 0 to 255 | 0 |
| 609-406 | LELATETO- HCFTRANS- PORT | Fault counter 381-167-00: LE Late To HCF Transport | Range = 0 to 255 | 0 |
| 609-407 | TELATETO- HCFTRANS- PORT | Fault counter 381-168-00: TE Late To HCF Transport | Range = 0 to 255 | 0 |
| 609-408 | FUSERINCOM- PATIBLEFAULT | Fault counter 310-399-00: Fuser Incompatible Fault | Range = 0 to 255 | 0 |
| 609-409 | FUSERTEMPER- ATUREREAD- INGFAILURE | Fault counter 310-340-00: Fuser Temperature Reading Failure | Range = 0 to 255 | 0 |
| 609-410 | LELATETOREG- SENSORFROMT RAY5 | Fault counter 381-155-00: LE Late To REG Sensor From Tray 5 | Range = 0 to 255 | 0 |
| 609-411 | TONEBOTTLER- MISSINGFAULT | Fault counter 393-401-00: Toner Cartridge Missing Fault | Range = 0 to 255 | 0 |
| 609-412 | TONERCAR- TRIDGEINCOM- PATIBLEFAULT | Fault counter 393-399-00: Toner Cartridge Incompatible Fault | Range = 0 to 255 | 0 |
| 609-413 | HIGHACMOD- ERECOVERY- FAULT | Fault counter 393-365-00: High AC Mode Recovery Fault | Range = 0 to 255 | 0 |
| 609-414 | LELATETOREGF ROMTRAY1 | Fault counter 381-190-00: LE Late To Registration From Tray 1 | Range = 0 to 255 | 0 |
| 609-415 | LELATETOREGF ROMTRAY2 | Fault counter 381-191-00: LE Late To Registration From Tray 2 | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|--|---------|
| 609-416 | LELATETOREGF ROMTRAY3 | Fault counter 381-192-00: LE Late To Registration From Tray 3 | Range = 0 to 255 | 0 |
| 609-417 | LELATETOREGF ROMTRAY4 | Fault counter 381-193-00: LE Late To Registration From Tray 4 | Range = 0 to 255 | 0 |
| 609-418 | LELATETOTAR1 FROMTRAY2 | Fault counter 381-194-00: LE Late To TAR 1 From Tray 2 | Range = 0 to 255 | 0 |
| 609-419 | LELATETOTAR1 FROMTRAY3 | Fault counter 381-195-00: LE Late To TAR 1 From Tray 3 | Range = 0 to 255 | 0 |
| 609-420 | LELATETOTAR1 FROMTRAY4 | Fault counter 381-196-00: LE Late To TAR 1 From Tray 4 | Range = 0 to 255 | 0 |
| 609-421 | LELATETOTAR2 FROMTRAY3 | Fault counter 381-197-00: LE Late To TAR 2 From Tray 3 | Range = 0 to 255 | 0 |
| 609-422 | LELATETOTAR2 FROMTRAY4 | Fault counter 381-198-00: LE Late To TAR 2 From Tray 4 | Range = 0 to 255 | 0 |
| 609-423 | LELATETOHCFE XITFROMTRAY4 | Fault counter 381-199-00: LE Late To HCF Exit From Tray 4 | Range = 0 to 255 | 0 |
| 609-424 | UNEXPECTED- SHEETATREG | Fault counter 381-200-00: Unexpected Sheet At Registration | Range = 0 to 255 | 0 |
| 609-425 | UNEXPECTED- SHEETATPOST- FUSER | Fault counter 381-201-00: Unexpected Sheet At Post Fuser | Range = 0 to 255 | 0 |
| 609-426 | UNEXPECTED- SHEETATDU- PLEX | Fault counter 383-157-00: Unexpected Sheet At Duplex | Range = 0 to 255 | 0 |
| 609-427 | UNEXPECTED- SHEETATFINX- PORT | Fault counter 310-172-00: Unexpected Sheet At Horizon- tal Transport | Range = 0 to 255 | 0 |
| 609-428 | TRAY5(MSI)HOI STFAILURE | Fault counter 375-100-00: Bypass Tray Hoist Failure | Range = 0 to 255 | 0 |
| 609-429 | FINISHERCOM- MSRE- SETAFTERACRA SH | Fault counter 312-800-00: Finisher Comms Reset After a Crash | Range = 0 to 255 | 0 |
| 609-455 | LSDOpenTime- BeforeBeep | Defines the period of time before beeping occurs when left door is open. | Range = 0 to 255 seconds | 120 |
| 609-456 | IMAGEBORDER- ENABLE | Enables/Disables 3mm border on print | 0 = Disable border 1 = Enable boarder | 1 |
| 609-457 | PcCoolingEv- entFC | Fault Counter 91-379: PC cooling event | Range = 0 to 255 | 0 |

Table 19 CCS NVM ID 609-001 to 609-468

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|-----------------|--------------------------|---------|
| 609-461 | Black + Color Level 1 Single Impressions_T2 | Not displayed | Range = 0 to 16777215 | 0 |
| 609-462 | Black + Color Level 1 Single Impressions_T3 | Not displayed | Range = 0 to 16777215 | 0 |
| 609-463 | A4 Equivalent Impressions | Not displayed | Range = 0 to 16777215 | 0 |
| 609-464 | Single Impressions | Not displayed | Range = 0 to 16777215 | 0 |
| 609-465 | Black Single Impressions | Not displayed | Range = 0 to 16777215 | 0 |
| 609-466 | Black A4 Equiva- lent Impressions | Not displayed | Range = 0 to 16777215 | 0 |
| 609-467 | Color Single Impressions | Not displayed | Range = 0 to 16777215 | 0 |
| 609-468 | Color A4 Equiva- lent Impressions | Not displayed | Range = 0 to 16777215 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|---|-------------------|---------|
| 610-001 | Copy ABS Detect Window FS Start | Background detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 75 |
| 610-002 | Copy ABS Detect Window FS Size | Background detection window fast scan dimension, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 850 |
| 610-003 | Copy ABS Level Platen | Auto Background Suppression level for platen | Range = 0 to 4 | 2 |
| 610-004 | Copy ABS Level DADH | Auto Background Suppression level for SPDH | Range = 0 to 4 | 2 |
| 610-005 | Copy Auto Con- trast Level Platen | Auto Contrast level for platen | Range = 0 to 4 | 2 |
| 610-006 | Copy Auto Con- trast Level DADH | Auto Contrast level for SPDH | Range = 0 to 4 | 2 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|-------------------|---------|
| 610-007 | Copy Auto Color Detect FS Start | Auto Color detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 16 |
| 610-008 | Copy Auto Color Detect SS Start | Auto Color detection window slow scan start, defined in tenth of percentage point of document slow scan dimen- sion. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 16 |
| 610-009 | Copy Auto Color Level Pixel Plat | Auto Color Detection Level for platen at pixel level. Defines a value that dictates how chromatic a pixel has to be in order to be considered color | Range = 0 to 4 | 2 |
| 610-010 | Copy Auto Color Level Page Plat | Auto Color Detection Level for platen at page level. Defines a value that dictates how chromatic a pixel has to be in order to be considered color | Range = 0 to 4 | 2 |
| 610-011 | Copy Auto Color Level Pixel DADH | Auto Color Detection Level for SPDH at pixel level. Defines a value that dictates how many color pixels have to be on a page so that the document is considered color | Range = 0 to 4 | 2 |
| 610-012 | Copy Auto Color Level Page DADH | Auto Color Detection Level for SPDH at page level. Defines a value that dictates how many color pixels have to be on a page so that the document is considered color | Range = 0 to 4 | 2 |
| 610-013 | K only (only black ink for B&W) | Dictates if black & white copies are printed in K-only or composite black | Range = 0 to 1 | 0 |
| 610-014 | Copy Photo/Text Segmentat'n Ctrl | Photo/Text Segmentation Threshold will control the Gali- leo segmentation. When it changes, the part of the input that will be considered text will vary as well as the part that will be considered photo. | Range = 0 to 4 | 2 |
| 610-015 | Copy White Reference | Defines the type of paper used | Range = 0 to 127 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|---|-------------------|---------|
| 610-016 | Copy Im Path Type (bit depth) | Defines the binary versus contone image path/printing | Range = 1 to 16 | 8 |
| 610-017 | Scan ABS Detect Window FS Start | Background detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 75 |
| 610-018 | Scan ABS Detect Window FS Size | Background detection window fast scan dimension, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 850 |
| 610-019 | Scan ABS Level Platen | Auto Background Suppression level for platen | Range = 0 to 4 | 2 |
| 610-020 | Scan ABS Level DADH | Auto Background Suppression level for SPDH | Range = 0 to 4 | 2 |
| 610-021 | Scan Auto Con- trast Level Platen | Auto Contrast level for platen | Range = 0 to 4 | 2 |
| 610-022 | Scan Auto Con- trast Level DADH | Auto Contrast level for SPDH | Range = 0 to 4 | 2 |
| 610-023 | Scan Auto Color Detect FS Start | Auto Color detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 16 |
| 610-024 | Scan Auto Color Detect SS Start | Auto Color detection window slow scan start, defined in tenth of percentage point of document slow scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 16 |
| 610-025 | Scan Auto Color Level Pixel Plat | Auto Color Detection Level for platen at pixel level. Defines a value that dictates how chromatic a pixel has to be in order to be considered color | Range = 0 to 4 | 2 |
| 610-026 | Scan Auto Color Level Page Plat | Auto Color Detection Level for platen at page level. Defines a value that dictates how many color pixels have to be on a page so that the document is considered color | Range = 0 to 4 | 2 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|--|-------------------|---------|
| 610-027 | Scan Auto Color Level Pixel DADH | Auto Color Detection Level for SPDH at pixel level. Defines a value that dictates how chro- matic a pixel has to be in order to be considered color | Range = 0 to 4 | 2 |
| 610-028 | Scan Auto Color Level Page DADH | Auto Color Detection Level for SPDH at page level. Defines a value that dictates how many color pixels have to be on a page so that the document is considered color | Range = 0 to 4 | 2 |
| 610-029 | Scan Photo/Text Segmentat'n Ctrl | Photo/Text Segmentation Threshold will control the Gali- leo segmentation. When it changes, the part of the input that will be considered text will vary as well as the part that will be considered | Range = 0 to 4 | 2 |
| 610-030 | Scan White Ref- erence | Defines the type of paper used | Range = 0 to 127 | 0 |
| 610-031 | Fax ABS Detect Window FS Start | Background detection window fast scan start, defined in tenth of percentage point of docu- ment fast scan dimension. Val- ues from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 75 |
| 610-032 | Fax ABS Detect Window FS Size | Background detection window fast scan dimension, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100, 100% is 1000). | Range = 0 to 1000 | 850 |
| 610-033 | Fax ABS Level Platen | Auto Background Suppression level for platen | Range = 0 to 4 | 2 |
| 610-034 | Fax ABS Level DADH | Auto Background Suppression level for SPDH | Range = 0 to 4 | 2 |
| 610-035 | Auto Contrast level for platen | Fax Auto Contrast Level Platen | Range = 0 to 4 | 2 |
| 610-036 | Fax Auto Contrast Level DADH | Auto Contrast level for SPDH | Range = 0 to 4 | 2 |

Table 20 CCS NVM ID 610-001 to 611-001

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|----------------------|---------|
| 610-037 | Fax Photo/Text Segment'n Con- trol | Photo/Text Segmentation Threshold will control the Gali- leo segmentation. When it changes, the part of the input that will be considered text will vary as well as the part that will be considered | Range = 0 to 4 | 2 |
| 610-038 | Fax White Reference | Defines the type of paper used | Range = 0 to 127 | 0 |
| 610-047 | Print ImagePath Type (bit depth) | Defines the binary versus contone image path/printing | Range = 1 to 16 | 8 |
| 610-052 | Toner Saver Mode | Toner Saver Mode | 0 = Standard 1 = ECO | 1 |
| 611-001 | DisplayCustom- TypesFirst | Always Display Custom Types First option setting | Range = 0 to 1 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|--|------------------|---------|
| 612-001 | Queue To NC Print TimeoutFC | Fault counter 322-330-02: Queue To ESS Print Timeout | Range = 0 to 255 | 0 |
| 612-002 | Queue To S2F Timeout | Fault counter 322-330-03: Queue To S2F Timeout | Range = 0 to 255 | 0 |
| 612-003 | Queue To Fax- Send Timeout | Fault counter 322-330-04: Queue To Fax Send Timeout | Range = 0 to 255 | 0 |
| 612-004 | Queue To DCCopy Timeout | Fault counter 322-330-05: Queue To DC Copy Timeout | Range = 0 to 255 | 0 |
| 612-005 | Queue To S2Distr Timeout | Fault counter 322-330-06: Queue To S2 Distribution Tim- eout | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|--|---|---------|
| 616-001 | Market region | Defines the market region. 0 = US (North America) 1 = XCL (Canada) 2 = FX (Fuji Xerox Japan) 3 = FXAPO (Fuji Xerox Asian Pacific) 4 = ACO (Latin) 5 = RX (Europe) 6 = MRDmo East 7 = MRDmo West (Read only) | Range = 0 to 7 NOTE: Do not use, refer to dC134. | 0 |
| | | NOTE: Do not use, refer to dC134. | | |
| 616-002 | Power Saver Enabled | Enable Power Saver feature | 0 = Disabled 1 = Enabled | 1 |
| 616-003 | Product Configuration | 32 = A1 class 32ppm 38 = A2 class 35/38ppm 36 = B1 class 35ppm 40 = B2 class 40ppm 45 = B3 class 45ppm 55 = B4 class 55ppm 65 = C1 class 65ppm 75 = C2 class 75ppm 85 = C3 class 85ppm 255 = Unknown speed (Read only) | Range = 0 to 255 | 255 |
| 616-004 | System Configuration | Defines System Configuration (type of system) | Range = 0 to 8 | 1 |
| 616-005 | DST Start | Defines start day of daylight savings time | Range = 0 to 366 | 0 |
| 616-006 | DST End | Defines end day of daylight savings time | Range = 0 to 366 | 0 |
| 616-007 | Time Display For- mat | Defines time display format | 0 = 12 hour format 1 = 24 hour format | 0 |
| 616-008 | Power off enabled | Determines whether power saver's power off option is enabled. 0 = False, 1 = True | Range = 0 to 1 | 1 |
| 616-009 | Power off timeout enabled | Determines whether power saver's power off option using timers is enabled. | 0 = False 1 = True | 1 |
| 616-010 | powersaver idle- time | Defines time in "normal" mode where system has been idle to enabled transition into power saver. | Range = 0 to 225 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|---|---|---------|
| 616-011 | Power saver in mode time | Defines time in "mode 1" before transitioning to "mode 3" for appropriate configurations. | Range = 0 to 255 | 60 |
| 616-012 | Power saver power off time | Defines time in "lowest" power saver mode before powering off. | Range = 0 to 255 | 45 |
| 616-013 | Date Display For- mat | Defines date display format | 0 = mm/dd/yy 1 = dd/mm/yy 3 = yy/mm/dd | 0 |
| 616-014 | System install phase | Defines system's current installation phase. | 0 = Manufacturing 2 = Pre-Install 4 = Complete | 2 |
| 616-016 | Power up reason | Defines reason for previous power off. | Range = 0 to 6 | 1 |
| 616-017 | Contention Algo- rithm | Defines the order algorithm for queues/ contention: FIFO versus priority | Range = 0 to 1 | 1 |
| 616-018 | Extra Time | Amount of additional time after power up before system can enter power saver. | Range = 0 to 5 | 5 |
| 616-019 | System mode | Defines system's overall mode | Range = 0 to 12 | 0 |
| 616-020 | Auto configura- tion enabled | Determines if the system runs through auto configuration, detect at power on. | 0 = False 1 = True | 1 |
| 616-021 | Line voltage | Defines system line voltage | 0=Unknown 1 = 100V 2 = 115V 3 = 230V | 2 |
| 616-022 | Line frequency | Defines system line frequency | 0 = 50Hz 1 = 60Hz | 1 |
| 616-024 | Serial number enabled | Determines whether serial number has been set. | 0 = False 1 = True | 1 |
| 616-025 | Promotion time | Defines time interval for increasing job's priority based on time in system. | Range = 15 to 1440 | 120 |
| 616-026 | Auto promotion enabled | Determines whether to increase job priority longer job is in system. | 0 = False 1 = True | 1 |
| 616-027 | Previous market region | Defines previous market region | 0=USCO 1 = XCL 2 = FX 3 = FXAPO 4 = ACO 5 = RX | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|---|---|---------|
| 616-028 | ModeChangeCli- entId | Defines client who did the most recent system mode change. | Range = 0 to 9994 | 16 |
| 616-029 | Latest EOD event | day was reached. | Range = 0 to 4294967295 | 0 |
| 616-030 | Previous product config | Defines previous product configuration (All Products) | Range = 0 to 255 | 106 |
| 616-031 | Previous line frequency | Defines previous line frequency | 0 = 50Hz 1 = 60Hz | 1 |
| 616-032 | Pevious line voltage | Defines previous line voltage | 0 = Unknown 1 = 100V 2 = 115V 3 = 230V | 2 |
| 616-033 | NVM copyright years | List of system's copyright years. | Range = 0 to 4294967295 | 0 |
| 616-034 | Desired install cli- ent | Defines current client of system installation. | Range = 0 to 255 | 0 |
| 616-035 | RemoteIntrusive- DiagEnabled | Determines whether remote intrusive diagnostics is enabled. 0 = False, 1 = True | Range = 0 to 1 | 1 |
| 616-036 | Value added reseller | Defines installation's value added reseller. | Range = 0 to 255 | 255 |
| 616-037 | GMT Offset | Used by platforms to insure system clocks are set to correct time zones. | Range = -43200 to 50400 | 0 |
| 616-038 | NC OnlineNvm | Determines whether ESS is On (Off) line. | 0 = False 1 = True | 1 |
| 616-039 | Job Hold Time | Max time a job can be held before it is deleted by the sys- tem | Range = 0 to 7200 | 4320 |
| 616-040 | Job Hold Timer enabled | SA/KO setting to enable/dis- able hold job timer | Range = 0 to 1 | 1 |
| 616-041 | ScanToFilein- stalled count | Counter used for secure install and remove operations of the optional features | Range = 0 to 65535 | 0 |
| 616-042 | LanFaxinstalled count | Counter used for secure install and remove operations of the optional features | Range = 0 to 65535 | 0 |
| 616-043 | JBAinstalled count | Counter used for secure install and remove operations of the optional features | Range = 0 to 65535 | 0 |
| 616-044 | ScanToFileen- abled | Specifies whether scan to file is enabled on the machine. | Range = 0 to 1 | 0 |
| 616-045 | LanFaxenabled | Specifies whether LAN Fax is enabled on the machine. | Range = 0 to 1 | 0 |

| NIVM ID | NIVM Name | NVM Description | Cottingo | Default |
|---------|--|---|--|---------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 616-046 | JBAenabled | Specifies whether JBA is allowed to be turned Enabled on the machine. | Range = 0 to 1 | 0 |
| 616-047 | NC TTY enabled | Used by PWS to determine if ESS terminal window is enabled | Range = 0 to 1 | 0 |
| 616-048 | NC Config - Type | - | Range = 0 to 99 | 42 |
| 616-049 | NC Config - Option | - | Range = 0 to 99 | 42 |
| 616-050 | NC Config - Stor- age | - | Range = 0 to 99 | 42 |
| 616-051 | NC Config - Soft- ware Options | - | Range = 0 to 99 | 42 |
| 616-052 | Product Identifier | Product Identifier | 204 = 40 205 = 45 206 = 50 210 = 55 1000 = Unknown (not set) | 1000 |
| 616-053 | HeapLimits F:MaxImages T:MaxJobs | Heap Limits F:max images T:max jobs | Range = 0 to 1 | 0 |
| 616-054 | InternetFaxin- stalled count | - | Range = 0 to 65535 | 0 |
| 616-055 | ScanToEmailin- stalled count | - | Range = 0 to 65535 | 0 |
| 616-056 | InternetFaxen- abled | - | Range = 0 to 1 | 0 |
| 616-057 | ScanToEmailena- bled | - | Range = 0 to 1 | 0 |
| 616-058 | Software Upgrade Status | - | Range = 0 to 7 | 0 |
| 616-059 | DeclassifySyste- mOperationStatus | Declassify system - operation status | Range = 0 to 5 | 0 |
| 616-060 | Declassify system - retry count | - | Range = 0 to 255 | 0 |
| 616-061 | Declassify system - client id | - | Range = 0 to 255 | 0 |
| 616-062 | DeclassifySys- temPlatformMask | Declassify system - platform mask | Range = 0 to 65535 | 0 |
| 616-065 | Declassify sys- tem-pattern length | Declassify system - pattern list length | Range = 0 to 255 | 0 |
| 616-066 | Declassify system # repetitions | Declassify system - number of repetitions | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|---------------------------------------|----------------------------|---------|
| 616-067 | Declassify system - # of retries | Declassify system - number of retries | Range = 0 to 255 | 0 |
| 616-068 | Declassify system - Timeout | Declassify system - number of retries | Range = 0 to 4294967295 | 0 |
| 616-069 | DiskOverwritein- stalled count | - | Range = 0 to 65535 | 0 |
| 616-070 | DiskOverwriteen- abled | - | Range = 0 to 1 | 0 |
| 616-071 | ScanToFilehwsw available | - | Range = 0 to 1 | 1 |
| 616-072 | ScanToFilein- stalled | - | Range = 0 to 1 | 1 |
| 616-073 | LanFaxhwsw available | - | Range = 0 to 1 | 1 |
| 616-074 | LanFaxinstalled | - | Range = 0 to 1 | 1 |
| 616-075 | JBAhwsw avail- able | - | Range = 0 to 1 | 1 |
| 616-076 | JBAinstalled | - | Range = 0 to 1 | 1 |
| 616-077 | ScanToEmailh- wsw available | - | Range = 0 to 1 | 1 |
| 616-078 | ScanToEmailin- stalled | - | Range = 0 to 1 | 1 |
| 616-079 | InternetFaxhwsw available | - | Range = 0 to 1 | 1 |
| 616-080 | InternetFaxin- stalled | - | Range = 0 to 1 | 1 |
| 616-081 | DiskOverwriteh- wsw available | - | Range = 0 to 1 | 1 |
| 616-082 | DiskOverwritein- stalled | - | Range = 0 to 1 | 1 |
| 616-083 | JobOverwriteh- wsw available | - | Range = 0 to 1 | 1 |
| 616-084 | JobOverwritein- stalled | - | Range = 0 to 1 | 1 |
| 616-085 | JobOverwritein- stalled count | - | Range = 0 to 65535 | 0 |
| 616-086 | JobOverwriteen- abled | - | Range = 0 to 1 | 1 |
| 616-087 | EmbeddedFaxh- wsw available | - | Range = 0 to 1 | 1 |
| 616-088 | EmbeddedFaxin- stalled | - | Range = 0 to 1 | 0 |
| 616-089 | EmbeddedFaxin- stalled count | - | Range = 0 to 65535 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---------------------|---|---------|
| 616-090 | EmbeddedFaxen- abled | - | Range = 0 to 1 | 0 |
| 616-091 | Heavy Weight Fuser Enabled | - | Range = 0 to 1 | 1 |
| 616-092 | Software upgrade monitor enabled | Auto upgrade enable | Range = 0 to 1 | 0 |
| 616-094 | Geographic region | Geographic region | 0 = Unspecified 1 = Western 2 = Eastern 3 = Not Applicable 4 = FX 5 = SDH A setting of 3 indicates the CRUs are not to be differentiated by region, but by service plan | 0 |
| 616-095 | Zone1Page1Byte 0 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-096 | Zone1Page1Byte 1 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-097 | Zone1Page1Byte 2 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-098 | Zone1Page1Byte 3 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-099 | Zone1Page1Byte 4 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-100 | Zone1Page1Byte 5 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-101 | Zone1Page1Byte 6 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-102 | Zone1Page2Byte 0 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-103 | Zone1Page2Byte 1 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-104 | Zone1Page2Byte 2 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-105 | Zone1Page2Byte 3 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-106 | Zone1Page2Byte 4 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-107 | Zone1Page2Byte 5 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-108 | Zone1Page2Byte 6 | SIM data mirror | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------|---|--|---------|
| 616-109 | Zone1Page3Byte 0 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-110 | Zone1Page3Byte 1 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-111 | Zone1Page3Byte 2 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-112 | Zone1Page3Byte 3 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-113 | Zone1Page3Byte 4 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-114 | Zone1Page3Byte 5 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-115 | Zone1Page3Byte 6 | SIM data mirror | Range = 0 to 255 | 0 |
| 616-116 | SWUP NVM Save Switch | SWUP NVM Save Switch | Range = 0 to 255 | 0 |
| 616-117 | Delete settings | Delete settings | Range = 0 to 1 | 0 |
| 616-118 | NC OnlineValid- Nvm | NC Online Valid Nvm | Range = 0 to 1 | 0 |
| 616-120 | SearchPDFhwsw available | Search PDF hwsw available | Range = 0 to 1 | 1 |
| 616-121 | SearchPDFin- stalled | Search PDF installed | Range = 0 to 1 | 1 |
| 616-122 | SearchPDFin- stalled count | Search PDF installed count | Range = 0 to 65535 | 0 |
| 616-123 | SearchPDFen- abled | Search PDF enabled | Range = 0 to 1 | 0 |
| 616-124 | Cpsrhwsw avail- able | Cpsrhwsw available | Range = 0 to 1 | 1 |
| 616-125 | Cpsrinstalled | Cpsr installed | Range = 0 to 1 | 1 |
| 616-126 | Cpsrinstalled count | Cpsr installed count | Range = 0 to 65535 | 0 |
| 616-127 | Cpsrenabled | Cpsr enabled | Range = 0 to 1 | 0 |
| 616-143 | Fast Resume sta- tus | Fast Resume status | 0 = Disabled 1 = Enabled | 0 |
| 616-144 | Power Manage- ment mode | Power Management mode | 0 = Intelligent ready 1 = Job active 2 = Scheduled | 0 |
| 616-145 | Scheduled wake time - Sunday | Power Management Sched- uled wake time - Sunday | Range = 0 to 23 (hourly increments) | 9 |
| 616-146 | Scheduled wake time - Monday | Power Management Sched- uled wake time - Monday | Range = 0 to 23 (hourly increments) | 9 |
| 616-147 | Scheduled wake time - Tuesday | Power Management Sched- uled wake time - Tuesday | Range = 0 to 23 (hourly increments) | 9 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|---|---------|
| 616-148 | Scheduled wake time - Wednesday | Power Management Sched- uled wake time - Wednesday | Range = 0 to 23 (hourly increments) | 9 |
| 616-149 | Scheduled wake time - Thursday | Power Management Sched- uled wake time - Thursday | Range = 0 to 23 (hourly increments) | 9 |
| 616-150 | Scheduled wake time - Friday | Power Management Sched- uled wake time - Friday | Range = 0 to 23 (hourly increments) | 9 |
| 616-151 | Scheduled wake time - Saturday | Power Management Sched- uled wake time - Saturday | Range = 0 to 23 (hourly increments) | 9 |
| 616-152 | Scheduled pwr saver time Sun- day | Power Management Sched- uled power saver time - Sun- day | Range = 0 to 23 (hourly increments) | 17 |
| 616-153 | Scheduled pwr saver time Mon- day | Power Management Sched- uled power saver time - Mon- day | Range = 0 to 23 (hourly increments) | 17 |
| 616-154 | Scheduled pwr saver time Tues- day | Power Management Sched- uled power saver time - Tues- day | Range = 0 to 23 (hourly increments) | 17 |
| 616-155 | Scheduled pwr saver time Wed. | Power Management Sched- uled power saver time - Wednesday | Range = 0 to 23 (hourly increments) | 17 |
| 616-156 | Scheduled pwr saver time Thurs. | Power Management Sched- uled power saver time - Thurs- day | Range = 0 to 23 (hourly increments) | 17 |
| 616-157 | Scheduled pwr saver time Friday | Power Management Sched- uled power saver time - Friday | Range = 0 to 23 (hourly increments) | 17 |
| 616-158 | Scheduled pwr saver time Sat. | Power Management Sched- uled power saver time - Satur- day | Range = 0 to 23 (hourly increments) | 17 |
| 616-159 | Schedule type - Sunday | Power Management daily Schedule type - Sunday | 0 = Job activated 1 = Specified time | 0 |
| 616-160 | Schedule type - Monday | Power Management daily Schedule type - Monday | 0 = Job activated 1 = Specified time | 0 |
| 616-161 | Schedule type - Tuesday | Power Management daily Schedule type - Tuesday | 0 = Job activated 1 = Specified time | 0 |
| 616-162 | Schedule type - Wednesday | Power Management daily Schedule type - Wednesday | 0 = Job activated 1 = Specified time | 0 |
| 616-163 | Schedule type - Thursday | Power Management daily Schedule type - Thursday | 0 = Job activated 1 = Specified time | 0 |
| 616-164 | Schedule type - Friday | Power Management daily Schedule type - Friday | 0 = Job activated 1 = Specified time | 0 |
| 616-165 | Schedule type - Saturday | Power Management daily Schedule type - Saturday | 0 = Job activated 1 = Specified time | 0 |
| 616-199 | AIF Activation Counter | AIF Activation Counter (Read only) | Range = 0 to 4294967295 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|--|---|---------|
| 616-200 | Num- TimesPagePack- PinlockedFC | Fault counter 322-330: Number of times PagePack pin has been locked out | Range = 0 to 255 | 0 |
| 616-202 | Current language (as set on UI) | Current language (as set on UI). (Read only) | Range = 0 to 255 | 4 |
| 616-203 | Disk Encryption - hwsw available | Indicates if the appropriate hardware is available | Range = 0 to 1 | 1 |
| 616-204 | Disk Encryption - Installed | Indicates if Disk Encryption option is installed | Range = 0 to 1 | 1 |
| 616-205 | Disk Encryption Installed Count | Disk Encryption Installed Count | Range = 0 to 65535 | 0 |
| 616-206 | Disk Encryption Enabled/Disabled | Disk Encryption Enabled/Disabled | 0 = Disabled 1 = Enabled | 1 |
| 616-212 | Fast Resume popup enabled | Fast Resume popup message enabled status | 0 = Fast Resume fea- ture not previously enabled 1 = Fast Resume fea- ture has been previ- ously enabled | 0 |
| 616-213 | FullODIOTimeout | Defines system manager full ODIO timeout | Range = 0 to 255 | 90 |
| 616-214 | StandardODIOT- imeout | Defines system manager stan- dard ODIO timeout | Range = 0 to 255 | 30 |
| 616-216 | Auto-Reset Count | Automatic System Reset Count | Range = 0 to 2 | 0 |
| 616-229 | Display Snooze Message | Determines whether the status is set for displaying the UI message. | 0 = Not in snooze mode 1 = In snooze mode | 0 |
| 616-230 | RefurbModeNVM | Indicates that the machine has been refurbed. | 0 = Not refurbed 1 = Refurbed | 0 |
| 616-232 | powersaver fast resume idletime | The idle time in minutes before the machine will enter Low power with Fast resume set | Range = 1 to 225 | 60 |
| 616-233 | powersaver fast resume in mode1 | The idle time in minutes the machine will remain in Low power before entering Sleep with Fast Resume set | Range = 0 to 225 | 120 |
| 616-234 | UI system Time- out value | UI system Timeout value | Range = 15 to 3600 | 45 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|---|---------|
| 616-235 | RegDiff | Regional Differentiator value (Read only) | 1 = NA_Classic 2 = NA_Enterprise 3 = XE_Classic 4 = XE_Enterprise 5 = DMO_Classic 6 = DMO_Enterprise 7 = Metered 8 = FX_Classic 9 = FX_Enterprise 10 = SR_Classic 11 = SR_Enterprise 12 = WW_Classic 13 = WW_Enterprise 14 = NA_XE_Classic 15 = NA_XE_Enterprise 63 = Factory | 1 |
| 616-237 | POSU Enable During Install Mode | Enable POSU while system in Customer Install Mode. | 0 = Do not allow 1 = Allow | 0 |
| 616-238 | UI System Time- out Warning Enabled | UI System Timeout Warning | 0 = Disable 1 = Enable | 1 |
| 616-246 | CheckVanillaRun- Result | Check vanilla routine has been executed on machine (Read only) | 0 = Unknown 1 = Pass 2 = Fail | 0 |
| 616-250 | NumberOfSuc- cessfulUpgrades | Counter recording the total number of successful upgrades of the machine (Read only) | Range = 0 to 65535 | 0 |
| 616-251 | NumberOf- FailedUpgrades | Counter recording the total number of failed upgrades of the machine (Read only) | Range = 0 to 65535 | 0 |
| 616-252 | CCSFailedRetries | Counter recording the number of failed CCS power on upgrade reboots of the machine (Read only) | Range = 0 to 65535 | 0 |
| 616-255 | Fault Counter 95- 000-00 | Fault Counter 395-000-00: DC Boot Code Error | Range = 0 to 255 | 0 |
| 616-256 | Fault Counter 95- 001-00 | Fault Counter 395-001-00: DC SW Up Code Error | Range = 0 to 255 | 0 |
| 616-257 | Fault Counter 95- 002-00 | Fault Counter 395-002-00: DC App Error | Range = 0 to 255 | 0 |
| 616-258 | Fault Counter 95- 003-00 | Fault Counter 395-003-00: DC OS Error | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|------------------|---------|
| 616-259 | Fault Counter 95- 005-00 | Fault Counter 395-004-00: DC CIPS Error | Range = 0 to 255 | 0 |
| 616-260 | Fault Counter 95- 005-00 | Fault Counter 395-005-00: SUI App Error | Range = 0 to 255 | 0 |
| 616-261 | Fault Counter 95- 006-00 | Fault Counter 395-006-00: SUI H8 Error | Range = 0 to 255 | 0 |
| 616-262 | Fault Counter 95- 007-00 | Fault Counter 395-007-00: DADH Application Error | Range = 0 to 255 | 0 |
| 616-263 | Fault Counter 95- 008-00 | Fault Counter 395-008-00: EXT MEM Error | Range = 0 to 255 | 0 |
| 616-264 | Fault Counter 95- 009-00 | Fault Counter 395-009-00: DADH Kernel Error | Range = 0 to 255 | 0 |
| 616-265 | Fault Counter 95- 010-00 | Fault Counter 395-010-00: Fax App Error | Range = 0 to 255 | 0 |
| 616-266 | Fault Counter 95- 011-00 | Fault Counter 395-011-00: Fax FPGA Error | Range = 0 to 255 | 0 |
| 616-267 | Fault Counter 95- 012-00 | Fault Counter 395-012-00: Fax Boot Error | Range = 0 to 255 | 0 |
| 616-268 | Fault Counter 95- 013-00 | Fault Counter 395-013-00: Embed Fax Error | Range = 0 to 255 | 0 |
| 616-269 | Fault Counter 95- 014-00 | Fault Counter 395-014-00: IOT Boot Strap Error | Range = 0 to 255 | 0 |
| 616-270 | Fault Counter 95- 015-00 | Fault Counter 395-015-00: IOT Boot Load Error | Range = 0 to 255 | 0 |
| 616-271 | Fault Counter 95- 016-00 | Fault Counter 395-016-00: IOT App Error | Range = 0 to 255 | 0 |
| 616-272 | Fault Counter 95- 017-00 | Fault Counter 395-017-00: 1K LCSS App Error | Range = 0 to 255 | 0 |
| 616-273 | Fault Counter 95- 018-00 | Fault Counter 395-018-00: 2K LCSS App Error | Range = 0 to 255 | 0 |
| 616-274 | Fault Counter 95- 019-00 | Fault Counter 395-019-00: 2K LCSS Boot Error | Range = 0 to 255 | 0 |
| 616-275 | Fault Counter 95- 020-00 | Fault Counter 395-020-00: 3K LCSS App Error | Range = 0 to 255 | 0 |
| 616-276 | Fault Counter 95- 021-00 | Fault Counter 395-021-00: HCSS BO HCSS App Error | Range = 0 to 255 | 0 |
| 616-277 | Fault Counter 95- 022-00 | Fault Counter 395-022-00: HCSS BO App Error | Range = 0 to 255 | 0 |
| 616-278 | Fault Counter 95- 023-00 | Fault Counter 395-023-00: DC NC App Error | Range = 0 to 255 | 0 |
| 616-279 | Fault Counter 95- 024-00 | Fault Counter 395-024-00: DC NC OS Error | Range = 0 to 255 | 0 |
| 616-280 | Fault Counter 95- 025-00 | Fault Counter 395-025-00: IIT App Error | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|------------------|---------|
| 616-281 | Fault Counter 95- 026-00 | Fault Counter 395-026-00: Embed Fax FPGA Error | Range = 0 to 255 | 0 |
| 616-282 | Fault Counter 95- 027-00 | Fault Counter 395-027-00: IIT Kernel Error | Range = 0 to 255 | 0 |
| 616-283 | Fault Counter 95- 028-00 | Fault Counter 395-028-00: Scanner Error | Range = 0 to 255 | 0 |
| 616-284 | Fault Counter 95- 029-00 | Fault Counter 395-029-00: HCF FW Mod Error | Range = 0 to 255 | 0 |
| 616-285 | Fault Counter 95- 030-00 | Fault Counter 395-030-00: PFM FW Mod Error | Range = 0 to 255 | 0 |
| 616-286 | Fault Counter 95- 031-00 | Fault Counter 395-031-00: PFP FW Mod Error | Range = 0 to 255 | 0 |
| 616-287 | Fault Counter 95- 032-00 | Fault Counter 395-032-00: HVF App Error | Range = 0 to 255 | 0 |
| 616-288 | Fault Counter 95- 033-00 | Fault Counter 395-033-00: HVF BM App Error | Range = 0 to 255 | 0 |
| 616-289 | Fault Counter 95- 034-00 | Fault Counter 395-034-00: HVF BC Error | Range = 0 to 255 | 0 |
| 616-290 | Fault Counter 95- 035-00 | Fault Counter 395-035-00: HVF BM BC Error | Range = 0 to 255 | 0 |
| 616-291 | Fault Counter 95- 036-00 | Fault Counter 395-036-00: PFP BL Error | Range = 0 to 255 | 0 |
| 616-292 | Fault Counter 95- 037-00 | Fault Counter 395-037-00: CFI NAPP Error | Range = 0 to 255 | 0 |
| 616-293 | Fault Counter 95- 038-00 | Fault Counter 395-038-00: DFI NAPP Error | Range = 0 to 255 | 0 |
| 616-294 | Fault Counter 95- 039-00 | Fault Counter 395-039-00: KM FIN App Error | Range = 0 to 255 | 0 |
| 616-295 | Fault Counter 95- 040-00 | Fault Counter 395-040-00: AFI NAPP Error | Range = 0 to 255 | 0 |
| 616-296 | Fault Counter 95- 041-00 | Fault Counter 395-041-00: SBF IN App Error | Range = 0 to 255 | 0 |
| 616-297 | Fault Counter 95- 042-00 | Fault Counter 395-042-00: PFM Tray 3 App Error | Range = 0 to 255 | 0 |
| 616-298 | Fault Counter 95- 043-00 | Fault Counter 395-043-00: PFM Tray 4 App Error | Range = 0 to 255 | 0 |
| 616-299 | Fault Counter 95- 044-00 | Fault Counter 395-044-00: PFM Tray 5 App Error | Range = 0 to 255 | 0 |
| 616-300 | Fault Counter 95- 045-00 | Fault Counter 395-045-00: DC IOT Proxy Error | Range = 0 to 255 | 0 |
| 616-301 | Fault Counter 95- 046-00 | Fault Counter 395-046-00: DCI IT Proxy Error | Range = 0 to 255 | 0 |
| 616-302 | Fault Counter 95- 047-00 | Fault Counter 395-047-00: DC ACD Error | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|--|------------------|---------|
| 616-303 | Fault Counter 95- 048-00 | Fault Counter 395-048-00: DC Glue Error | Range = 0 to 255 | 0 |
| 616-304 | Fault Counter 95- 049-00 | Fault Counter 395-049-00: DC PWS Proxy Error | Range = 0 to 255 | 0 |
| 616-305 | Fault Counter 95- 050-00 | Fault Counter 395-050-00: SS Boot Code Error | Range = 0 to 255 | 0 |
| 616-306 | Fault Counter 95- 051-00 | Fault Counter 395-051-00: SS App Error | Range = 0 to 255 | 0 |
| 616-307 | Fault Counter 95- 052-00 | Fault Counter 395-052-00: LVF Boot Error | Range = 0 to 255 | 0 |
| 616-308 | Fault Counter 95- 053-00 | Fault Counter 395-053-00: LVF App Error | Range = 0 to 255 | 0 |
| 616-309 | Fault Counter 95- 054-00 | Fault Counter 395-054-00: LVF BM Boot Error | Range = 0 to 255 | 0 |
| 616-310 | Fault Counter 95- 055-00 | Fault Counter 395-055-00: LVF BM App Error | Range = 0 to 255 | 0 |
| 616-311 | Fault Counter 95- 056-00 | Fault Counter 395-056-00: DC Nomad Proxy Error | Range = 0 to 255 | 0 |
| 616-312 | Fault Counter 95- 057-00 | Fault Counter 395-057-00: DC URD Error | Range = 0 to 255 | 0 |
| 616-313 | Fault Counter 95- 058-00 | Fault Counter 395-058-00: DC SCD Error | Range = 0 to 255 | 0 |
| 616-314 | Fault Counter 95- 059-00 | Fault Counter 395-059-00: DADH QT 100 Error | Range = 0 to 255 | 0 |
| 616-315 | Fault Counter 95- 060-00 | Fault Counter 395-060-00: DADH 100 Error | Range = 0 to 255 | 0 |
| 616-316 | Fault Counter 95- 061-00 | Fault Counter 395-061-00: DADH QT Error | Range = 0 to 255 | 0 |
| 616-317 | Fault Counter 95- 062-00 | Fault Counter 395-062-00: IOT Duplex Module Error | Range = 0 to 255 | 0 |
| 616-318 | Fault Counter 95- 063-00 | Fault Counter 395-063-00: IOT LC Module Error | Range = 0 to 255 | 0 |
| 616-319 | Fault Counter 95- 064-00 | Fault Counter 395-064-00: IIT A4 Scan Module Error | Range = 0 to 255 | 0 |
| 616-320 | Fault Counter 95- 065-00 | Fault Counter 395-065-00: IIT CCD Module Error | Range = 0 to 255 | 0 |
| 616-321 | Fault Counter 95- 066-00 | Fault Counter 395-066-00: IIT FW ATES Module Error | Range = 0 to 255 | 0 |
| 616-322 | Fault Counter 95- 067-00 | Fault Counter 395-067-00: SW Upgrade Incompat Prod Error | Range = 0 to 255 | 0 |
| 616-323 | Fault Counter 95- 068-00 | Fault Counter 395-068-00: SW Upgrade Incompat HW Error | Range = 0 to 255 | 0 |
| 616-324 | Fault Counter 95- 069-00 | Fault Counter 395-069-00: SW Up Incompat FW Error | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|--|--|---------|
| 616-325 | Fault Counter 95- 070-00 | Fault Counter 395-070-00: SW Up DLM Downgrade Error | Range = 0 to 255 | 0 |
| 616-326 | Fault Counter 95- 071-00 | Fault Counter 395-071-00: SW Up DLM Sidegrade Error | Range = 0 to 255 | 0 |
| 616-327 | Fault Counter 95- 072-00 | Fault Counter 395-072-00: SW UP Plat Sync Error | Range = 0 to 255 | 0 |
| 616-328 | Machine Class | Machine Class | 0 = Unknown (Not set) 1 = A 2 = B 3 = C | 2 |
| 616-329 | Sequence Num- ber | PagePack Sequence Number. Incremented each time a PagePack contract is renewed (Read only) | Range = 0 to 127 | 0 |
| 616-331 | DefaultRegDiff | Default Regional Differentiator value: This is what region the machine will be set to upon expiration of PagePack plan. (Read only) | 1 = NA_Classic 2 = NA_Enterprise 3 = XE_Classic 4 = XE_Enterprise 5 = DMO_Classic 6 = DMO_Enterprise 7 = Metered 8 = FX_Classic 9 = FX_Enterprise 10 = SR_Classic 11 = SR_Enterprise 12 = WW_Classic 13 = WW_Enterprise 14 = NA_XE_Classic 15 = NA_XE_Enterprise | 15 |
| 616-335 | HideCompleted- JobLogTab | Hide Completed Job Log Tab on UI | 0 = Hide 1 = Show | 1 |
| 616-337 | Tray 2 Usage:Standard/ Envelope | Tray 2 Usage: Standard Tray / Envelope Tray | 0 = Standard tray 1 = Envelope tray | 0 |
| 616-339 | power saver grace period | For Blue Angel when the energy saver is set to 0 minutes the system will take a grace period before it falls into the energy saver mode. | Range = 15 to 60 seconds | 45 |
| 616-340 | ClearFaxNumber- Policy | Policy for clearing embeded fax phone numbers immediately after sending | 0 = Do not clear 1 = Clear | 1 |
| 616-341 | ConfirmFaxNum- berPolicy | Policy for confirming fax numbers for embedded fax | 0 = Do NOT Confirm 1 = Confirm | 0 |

Table 23 CCS NVM ID 617-002 to 617-003

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------|-----------------|----------------|---------|
| 617-002 | Faults displayed on TTY | - | Range = 0 to 1 | 1 |
| 617-003 | Display faults | - | Range = 0 to 1 | 1 |

Table 24 CCS NVM ID 620-001 to 620-033

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------|-----------------|--------------------|---------|
| 620-001 | IISS Version No Upper Level | - | Range = 0 to 65535 | 0 |
| 620-002 | PrescanType | - | Range = 0 to 1 | 0 |
| 620-003 | PhotoTextSepara- tionLevel | - | Range = 0 to 4 | 2 |
| 620-004 | photoReproLevel | - | Range = 0 to 2 | 1 |
| 620-005 | bwSeparation- Level | - | Range = 0 to 4 | 2 |
| 620-006 | RED chromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-007 | RED chromat- icValueHigh | - | Range = 0 to 65535 | 25700 |
| 620-008 | RED aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-009 | RED aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-010 | GRN chromat- icValueLow | - | Range = 0 to 65535 | 25600 |
| 620-011 | GRN chromat- icValueHigh | - | Range = 0 to 65535 | 25600 |
| 620-012 | GRN aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-013 | GRN aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-014 | BLU chromat- icValueLow | - | Range = 0 to 65535 | 25600 |
| 620-015 | BLU chromat- icValueHigh | - | Range = 0 to 65535 | 63 |
| 620-016 | BLU aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-017 | BLU aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-018 | YEL chromat- icValueLow | - | Range = 0 to 65535 | 0 |

Table 24 CCS NVM ID 620-001 to 620-033

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------|-----------------|--------------------|---------|
| 620-019 | YEL chromat- icValueHigh | - | Range = 0 to 65535 | 25600 |
| 620-020 | YEL aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-021 | YEL aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-022 | MAG chromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-023 | MAG chromat- icValueHigh | - | Range = 0 to 65535 | 100 |
| 620-024 | MAG aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-025 | MAG aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-026 | CYA chromat- icValueLow | - | Range = 0 to 65535 | 25600 |
| 620-027 | CYA chromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-028 | CYA aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-029 | CYA aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-030 | BLA chromat- icValueLow | - | Range = 0 to 65535 | 100 |
| 620-031 | BLA chromat- icValueHigh | - | Range = 0 to 65535 | 0 |
| 620-032 | BLA aChromat- icValueLow | - | Range = 0 to 65535 | 0 |
| 620-033 | BLA aChromat- icValueHigh | - | Range = 0 to 65535 | 0 |

Table 25 CCS NVM ID 620-101 to 620-199

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------|-----------------------|--------------------|---------|
| 620-099 | 62-310 counter | Fault counter 362-310 | Range = 0 to 255 | 0 |
| 620-101 | Market Informa- tion | - | Range = 0 to 3 | 0 |
| 620-102 | IISS Major Ver- sion | - | Range = 0 to 65535 | 0 |
| 620-103 | IISS Minor Ver- sion | - | Range = 0 to 65535 | 0 |
| 620-104 | IISS Revision Version | - | Range = 0 to 65535 | 0 |

Table 25 CCS NVM ID 620-101 to 620-199

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|--------------------|---------|
| 620-105 | IISS Patch Version | - | Range = 0 to 65535 | 0 |
| 620-106 | ADF Major Ver- sion | - | Range = 0 to 65535 | 0 |
| 620-107 | ADF Minor Version | - | Range = 0 to 65535 | 0 |
| 620-108 | ADF Revision Version | - | Range = 0 to 65535 | 0 |
| 620-109 | ADF Patch Version | - | Range = 0 to 65535 | 0 |
| 620-110 | IPL Version | - | Range = 0 to 65535 | 0 |
| 620-111 | IIT fail bypass | - | Range = 0 to 1 | 0 |
| 620-112 | Fan control mode | - | Range = 0 to 1 | 0 |
| 620-113 | the number of APS sensors | - | Range = 0 to 1 | 1 |
| 620-114 | Lamp Fan fal bypass | - | Range = 0 to 1 | 0 |
| 620-115 | Lamp Fan Low rotation ON time | - | Range = 0 to 60 | 15 |
| 620-116 | Lamp Fan Off time | - | Range = 0 to 60 | 0 |
| 620-117 | FL timer set | - | Range = 0 to 1 | 0 |
| 620-118 | Lamp On interval | - | Range = 0 to 60 | 30 |
| 620-119 | Lamp On time | - | Range = 0 to 60 | 1 |
| 620-120 | IIT failure parts diagnosis | - | Range = 0 to 65535 | 0 |
| 620-121 | Platen SS Regis- tration Adjust | Platen SS Registration Adjustment | Range = 16 to 184 | 100 |
| 620-122 | Platen SS Magni- fication Adjust | Platen SS Magnification Adjustment | Range = 44 to 56 | 50 |
| 620-123 | Platen glass type | | Range = 0 to 2 | 2 |
| 620-124 | REGI corr value- FS dir on Platen | REGI correction value in FS direction on Platen | Range = 0 to 240 | 120 |
| 620-125 | CVT FS Off S1:S1-1 (139.7- 148) | CVT FS Offset Side 1: Side 1- 1 (139.7 to 148) | Range = 0 to 240 | 120 |
| 620-126 | CVT FS Off S2:S2-1 (139.7- 148) | CVT FS Offset Side 2: Side 2- 1 (139.7 to 148) | Range = 0 to 240 | 120 |
| 620-127 | CVT FS Off S1:S1-2 (182- 194) | CVT FS Offset Side 1: Side 1-2 (182 to 194) | Range = 0 to 240 | 120 |

Table 25 CCS NVM ID 620-101 to 620-199

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 620-128 | CVT FS Off S2:S2-2 (182- 194) | CVT FS Offset Side 2: Side 2-2 (182 to 194) | Range = 0 to 240 | 120 |
| 620-129 | CVT FS Off S1:S1-3 (203.2) | CVT FS Offset Side 1: Side 1-3 (203.2) | Range = 0 to 240 | 120 |
| 620-130 | CVT FS Off S2:S2-3 (203.2) | CVT FS Offset Side 2: Side 2-3 (203.2) | Range = 0 to 240 | 120 |
| 620-131 | CVT FS Off S1:S1-4 (210) | CVT FS Offset Side 1: Side 1-4 (210) | Range = 0 to 240 | 120 |
| 620-132 | CVT FS Off S2:S2-4 (210) | CVT FS Offset Side 2: Side 2-4 (210) | Range = 0 to 240 | 120 |
| 620-133 | CVT FS Off S1:S1-5 (214.9- 215.9) | CVT FS Offset Side 1: Side 1- 5 (214.9 to 215.9) | Range = 0 to 240 | 120 |
| 620-134 | CVT FS Off S2:S2-5 (214.9- 215.9) | CVT FS Offset Side 2: Side 2-5 (214.9 to 215.9) | Range = 0 to 240 | 120 |
| 620-135 | CVT FS Off S1:S1-6 (254- 257) | CVT FS Offset Side 1: Side 1- 6 (254 to 257) | Range = 0 to 240 | 120 |
| 620-136 | CVT FS Off S2:S2-6 (254- 257) | CVT FS Offset Side 2: Side 2- 6 (254 to 257) | Range = 0 to 240 | 120 |
| 620-137 | CVT FS Off S1:S1-7 (266.7- 267) | CVT FS Offset Side 1: Side 1-7 (266.7 to 267) | Range = 0 to 240 | 120 |
| 620-138 | CVT FS Off S2:S2-7 (266.7- 267) | CVT FS Offset Side 2: Side 2-7 (266.7 to 267) | Range = 0 to 240 | 120 |
| 620-139 | CVT FS Off S1:S1-8 (279.4) | CVT FS Offset Side 1: Side 1-8 (279.4) | Range = 0 to 240 | 120 |
| 620-140 | CVT FS Off S2:S2-8 (279.4) | CVT FS Offset Side 2: Side 2-8 (279.4) | Range = 0 to 240 | 120 |
| 620-141 | CVT FS Off S1:S1-9 (297) | CVT FS Offset Side 1: Side 1-9 (297) | Range = 0 to 240 | 120 |
| 620-142 | CVT FS Off S2:S2-9 (297) | CVT FS Offset Side 2: Side 2-9 (297) | Range = 0 to 240 | 120 |
| 620-143 | CVT FS Off S1:S3-1 (139.7- 148) | CVT FS Offset Side 1: Side 3- 1 (139.7 to 148) | Range = 0 to 240 | 120 |
| 620-144 | CVT FS Off S2:S4-1 (139.7- 148) | CVT FS Offset Side 2: Side 4- 1 (139.7 to 148) | Range = 0 to 240 | 120 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|-------------------|---------|
| 620-145 | CVT FS Off S1:S3-2 (182- 194) | CVT FS Offset Side 1: Side 3- 2 (182 to 194) | Range = 0 to 240 | 120 |
| 620-146 | CVT FS Off S2:S4-2 (182- 194) | CVT FS Offset Side 2: Side 4-2 (182 to 194) | Range = 0 to 240 | 120 |
| 620-147 | CVT FS Off S1:S3-3 (203.2) | CVT FS Offset Side 1: Side 3-3 (203.2) | Range = 0 to 240 | 120 |
| 620-148 | CVT FS Off S2:S4-3 (203.2) | CVT FS Offset Side 2: Side 4-3 (203.2) | Range = 0 to 240 | 120 |
| 620-149 | CVT FS Off S1:S3-4 (210) | CVT FS Offset Side 1: Side 3-4 (210) | Range = 0 to 240 | 120 |
| 620-150 | CVT FS Off S2:S4-4 (210) | CVT FS Offset Side 2: Side 4-4 (210) | Range = 0 to 240 | 120 |
| 620-151 | CVT FS Off S1:S3-5 (214.9- 215.9) | CVT FS Offset Side 1: Side 3-5 (214.9 to 215.9) | Range = 0 to 240 | 120 |
| 620-152 | CVT FS Off S2:S4-5 (214.9- 215.9) | CVT FS Offset Side 2: Side 4-5 (214.9 to 215.9) | Range = 0 to 240 | 120 |
| 620-153 | CVT FS Off S1:S3-6 (254- 257) | CVT FS Offset Side 1: Side 3- 6 (254 to 257) | Range = 0 to 240 | 120 |
| 620-154 | CVT FS Off S2:S4-6 (254- 257) | CVT FS Offset Side 2: Side 4-6 (254 to 257) | Range = 0 to 240 | 120 |
| 620-155 | CVT FS Off S1:S3-7 (266.7- 267) | CVT FS Offset Side 1: Side 3-7 (266.7 to 267) | Range = 0 to 240 | 120 |
| 620-156 | CVT FS Off S2:S4-7 (266.7- 267) | CVT FS Offset Side 2: Side 4-7 (266.7 to 267) | Range = 0 to 240 | 120 |
| 620-157 | CVT FS Off S1:S3-8 (279.4) | CVT FS Offset Side 1: Side 3-8 (279.4) | Range = 0 to 240 | 120 |
| 620-158 | CVT FS Off S2:S4-8 (279.4) | CVT FS Offset Side 2: Side 4-8 (279.4) | Range = 0 to 240 | 120 |
| 620-159 | CVT FS Off S1:S3-9 (297) | CVT FS Offset Side 1: Side 3-9 (297) | Range = 0 to 240 | 120 |
| 620-160 | CVT FS Off S2:S4-9 (297) | CVT FS Offset Side 2: Side 4-9 (297) | Range = 0 to 240 | 120 |
| 620-161 | W-Ref adjust- ment factor Red | - | Range = 70 to 255 | 140 |
| 620-162 | W-Ref adjust- ment factor Green | - | Range = 70 to 255 | 140 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|---|-------------------|---------|
| 620-163 | W-Ref adjust- ment factor Blue | - | Range = 70 to 255 | 140 |
| 620-164 | W-Ref adjust- ment factor BW-X | - | Range = 70 to 255 | 140 |
| 620-165 | W-Ref adjust- ment factor BW-Y | - | Range = 70 to 255 | 140 |
| 620-166 | W-Ref adj factor Red (sheet) | W-Ref adjustment factor Red (each sheet) | Range = 0 to127 | 63 |
| 620-167 | W-Ref adj factor Green (sheet) | W-Ref adjustment factor Green (each sheet) | Range = 0 to 127 | 63 |
| 620-168 | W-Ref adj factor Blue (sheet) | W-Ref adjustment factor Blue (each sheet) | Range = 0 to 127 | 63 |
| 620-169 | W-Ref adj factor BW (sheet) | W-Ref adjustment factor BW (each sheet) | Range = 0 to 127 | 63 |
| 620-170 | IIT paper code | - | Range = 0 to 8 | 0 |
| 620-171 | Optical axis adjustment: front | - | Range = 0 to 1980 | 990 |
| 620-172 | Optical axis adjustment: rear | - | Range = 0 to 1980 | 990 |
| 620-173 | CVT FS Offset Side 1: Side1 | - | Range = 0 to 240 | 120 |
| 620-174 | CVT FS Offset Side 2: Side2 | - | Range = 0 to 240 | 120 |
| 620-175 | CVT FS Offset Side 1: Side3 | - | Range = 0 to 240 | 120 |
| 620-176 | CVT FS Offset Side 2: Side4 | - | Range = 0 to 240 | 120 |
| 620-177 | BW/Color auto recognition level | - | Range = 0 to 1 | 0 |
| 620-178 | Black line adj level (for COLOR) | Black line adjustment level (for Color) | Range = 0 to 15 | 8 |
| 620-179 | Black line adj level (for BW) | Black line adjustment level (for BW) | Range = 0 to 15 | 8 |
| 620-180 | Black line adjust- ment test mode | - | Range = 0 to 7 | 0 |
| 620-181 | BW adjustment table | - | Range = 0 to 7 | 0 |
| 620-182 | HOSEI_SCAN (for detection) | - | Range = 0 to 6 | 3 |
| 620-183 | HOSEI_SCAN (for image) | - | Range = 0 to 6 | 3 |
| 620-184 | CCD Calib Y scan Red | - | Range = 0 to 1023 | 0 |

Table 25 CCS NVM ID 620-101 to 620-199

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|-------------------|---------|
| 620-185 | CCD Calib Y scanned: Green | - | Range = 0 to 1023 | 0 |
| 620-186 | CCD Calib Y scanned: Blue | - | Range = 0 to 1023 | 0 |
| 620-187 | CCD Calib M scanned: Red | - | Range = 0 to 1023 | 0 |
| 620-188 | CCD Calib M scanned: Green | - | Range = 0 to 1023 | 0 |
| 620-189 | CCD Calib M scanned: Blue | - | Range = 0 to 1023 | 0 |
| 620-190 | CCD Calib C scanned: Red | - | Range = 0 to 1023 | 0 |
| 620-191 | CCD Calib C scanned: Green | - | Range = 0 to 1023 | 0 |
| 620-192 | CCD Calib C scanned: Blue | - | Range = 0 to 1023 | 0 |
| 620-193 | CCD Calib PK scanned: Red | - | Range = 0 to 1023 | 0 |
| 620-194 | CCD Calib PK scanned: Green | - | Range = 0 to 1023 | 0 |
| 620-195 | CCD Calib PK scanned: Blue | - | Range = 0 to 1023 | 0 |
| 620-196 | Switching A6/ postcard detect | Switching A6 document / post- card detection | Range = 0 to 2 | 0 |
| 620-197 | A4S/8.5in det. border switch 2 | A4S/8.5in detection border switching 2 | Range = 0 to 6 | 3 |
| 620-198 | B5/8W10 detection switch | - | Range = 0 to 3 | 0 |
| 620-199 | Switch 8.5W13/ 8.5W14 detec- tions | - | Range = 0 to 3 | 0 |

Table 26 CCS NVM ID 620-200 to 620-299

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|---|----------------|---------|
| 620-200 | Select special- doc-detect table | Select special document detection table | Range = 0 to 2 | 0 |
| 620-201 | Switch docu size detect tables | Switch document size detection tables | Range = 1 to 5 | 2 |
| 620-202 | Switch A3/11W17 detections | - | Range = 0 to 3 | 0 |

Table 26 CCS NVM ID 620-200 to 620-299

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|--------------------|---------|
| 620-203 | Switch A4/ 8.5W11 detec- tions | - | Range = 0 to 3 | 0 |
| 620-204 | Document size detection. | - | Range = 0 to 1 | 0 |
| 620-205 | GCO/TFX sizes switching | - | Range = 0 to 1 | 1 |
| 620-206 | B4/8-kai FS threshold setting | - | Range = 0 to 6 | 3 |
| 620-207 | 8-kai/11W17SEF FS threshold | 8-kai/11W17SEF FS threshold setting | Range = 0 to 6 | 3 |
| 620-208 | Switch B6/5W7 detections | - | Range = 0 to 2 | 0 |
| 620-209 | Lamp check NG counts | - | Range = 0 to 65535 | 0 |
| 620-210 | Data taken at lamp check NG. | - | Range = 0 to 1023 | 0 |
| 620-211 | AOC flow endings with error | The number of AOC flow endings with error | Range = 0 to 255 | 0 |
| 620-212 | BW Copy BGR- AE adjustment level | - | Range = 0 to 4095 | 0 |
| 620-213 | Color copy BGR- AE adjust level | Color copy BGR-AE adjust- ment level | Range = 0 to 4095 | 0 |
| 620-214 | TP_BW_Copy BGR-AE-Level Speed | BW Copy BGR-AE adjustment speed prioritized | Range = 0 to 4095 | 0 |
| 620-215 | TX_CL_Copy BGR-AE-Level Speed | Color copy BGR AE adjust- ment speed prioritized AE (Text) | Range = 0 to 4095 | 0 |
| 620-216 | TP_BW_Contone BGR-AE-Level Speed | BW contone scan BGR AE adjustment level for speed pri- oritized AE (Text photo) | Range = 0 to 4095 | 0 |
| 620-217 | TP_CL_Contone BGR-AE-Level Speed | Color contone scan BGR AE adjustment level for speed pri- oritized AE (Text photo) | Range = 0 to 4095 | 0 |
| 620-218 | ABS; FS non- detected area 1 | Background suppression; FS non-detected area 1 | Range = 0 to 65535 | 255 |
| 620-219 | ABS; FS non- detected area 2 | Background suppression; FS non-detected area 2 | Range = 0 to 65535 | 255 |
| 620-220 | ABS; FS non- detected area 3 | Background suppression; FS non-detected area 3 | Range = 0 to 65535 | 255 |
| 620-221 | ABS; FS non- detected area 4 | Background suppression; FS non-detected area 4 | Range = 0 to 65535 | 255 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|--------------------|---------|
| 620-222 | ABS; SS fixed position | Background suppression; SS fixed position | Range = 0 to 65535 | 60 |
| 620-223 | ABS; SS end position (for HAE) | Background suppression; SS end position (for HAE) | Range = 0 to 65535 | 240 |
| 620-224 | ABS; SS end position (for MAE) | Background suppression; SS end position (for MAE) | Range = 0 to 65535 | 240 |
| 620-225 | ABS; SS end position (for NAE) | Background suppression; SS end position (for NAE) | Range = 0 to 65535 | 240 |
| 620-226 | LIM control for BW COPY | - | Range = 0 to 1 | 1 |
| 620-227 | LIM control for color COPY | - | Range = 0 to 1 | 1 |
| 620-228 | BW_Copy Varia- tion Control(1-bit) | LIM control for Faxand binary scan | Range = 0 to 1 | 1 |
| 620-229 | LIM control for condone scan | - | Range = 0 to 1 | 1 |
| 620-230 | ABS threshold (HAE) | Background suppression threshold (HAE) | Range = 0 to 255 | 127 |
| 620-231 | ABS threshold (NAE1) | Background suppression threshold (NAE1) | Range = 0 to 255 | 33 |
| 620-232 | ABS threshold (NAE2) | Background suppression threshold (NAE2) | Range = 0 to 255 | 204 |
| 620-233 | ABS threshold (NAE3) | Background suppression threshold (NAE3) | Range = 0 to 65535 | 8 |
| 620-234 | ABS threshold (NAE4) | Background suppression threshold (NAE4) | Range = 0 to 65535 | 4 |
| 620-235 | AE control of FS size detection | - | Range = 0 to 1 | 0 |
| 620-236 | Not displayed | Minimum FS detection size for AE | Range = 0 to 65535 | 500 |
| 620-237 | AE param SS mag corr TopLimit 1 | AE parameter SS magnification correction upper limit 1 | Range = 0 to 4000 | 4000 |
| 620-238 | AE param SS mag corr TopLimit 2 | AE parameter SS magnification correction upper limit 2 | Range = 0 to 4000 | 4000 |
| 620-239 | AE param SS mag corr TopLimit 3 | AE parameter SS magnification correction upper limit 3 | Range = 0 to 4000 | 4000 |
| 620-240 | AE param SS mag corr TopLimit 4 | AE parameter SS magnification correction upper limit 4 | Range = 0 to 4000 | 4000 |
| 620-241 | TX_BW_Fax Off- set Lvl AE | Fax binary scan: background suppression Offset level; text mode (normal pencil) | Range = 0 to 8191 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|-------------------|---------|
| 620-242 | TP_BW_Copy_F ax Removal LvI AE | Level for BW Copy Fax and binary scan: Text/photo mode (print photographic paper copy) | Range = 0 to 4095 | 0 |
| 620-243 | TP_BW_Copy_F ax Offset LvI AE | Offset level for BW Copy Fax and binary scan: Text/photo mode (print photographic paper copy) | Range = 0 to 4095 | 273 |
| 620-244 | TX_BW_Copy_F ax Removal Lvl AE | Level for BW Copy Fax and binary scan: text mode (normal pencil) | Range = 0 to 4095 | 0 |
| 620-245 | TX_BW_Copy_F ax Offset LvI AE | Offset level for BW Copy Fax and binary scan: text mode (normal pencil) | Range = 0 to 4095 | 273 |
| 620-246 | TPL_BW_Copy_ Fax Removal Lvl AE | Level for BW Copy Fax and binary scan: text/photo mode (pale-color document) | Range = 0 to 4095 | 0 |
| 620-247 | TPL_BW_Copy_ Fax Offset Lvl AE | Offset level for BW Copy Fax and binary scan: text/photo mode (pale-color document) | Range = 0 to 4095 | 273 |
| 620-248 | TRP_BW_Copy_ Fax Removal Lvl AE | Level for BW Copy Fax and binary scan: text mode (tracing paper) | Range = 0 to 4095 | 0 |
| 620-249 | TRP_BW_Copy_ Fax Offset Lvl AE | Offset level for BW Copy Fax and binary scan: text mode (tracing paper) | Range = 0 to 4095 | 273 |
| 620-250 | TP_CL_Copy Removal Lvl AE | level for Color Copy: text/photo mode (print photographic paper copy inkjet highlighter) | Range = 0 to 4095 | 0 |
| 620-251 | TP_CL_Copy Off- set Lvl AE | Offset level for Color Copy text/photo mode (print photo- graphic paper copy inkjet high- lighter) | Range = 0 to 4095 | 0 |
| 620-252 | TX_CL_Copy Removal Lvl AE | Level for Color Copy: text (nor-mal) | Range = 0 to 4095 | 0 |
| 620-253 | TX_CL_Copy Off- set Lvl AE | Offset level for Color Copy text (normal) | Range = 0 to 4095 | 0 |
| 620-254 | TP_BW_Contone Removal Lvl AE | Level for BW Contone Scan (text photo) | Range = 0 to 4095 | 819 |
| 620-255 | TP_BW_Contone Offset Lvl AE | Offsetlevel for BW Contone Scan: (text photo) | Range = 0 to 4095 | 0 |
| 620-256 | notTP_BW_Cont one Removal Lvl AE | Level for BW Contone Scan (other than text photo) | Range = 0 to 4095 | 819 |
| 620-257 | notTP_BW_Cont one Offset Lvl AE | Offset level for BW Contone Scan: (other than text photo) | Range = 0 to 4095 | 0 |

Table 26 CCS NVM ID 620-200 to 620-299

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|--|-------------------|---------|
| 620-258 | TP_CL_Contone Removal Lvl AE | Level for Color Contone Scan (text photo) | Range = 0 to 4095 | 0 |
| 620-259 | TP_CL_Contone Offset Lvl AE | Offset level for Color Contone Scan: (text photo) | Range = 0 to 4095 | 0 |
| 620-260 | notTP_CL_Conto ne Removal Lvl AE | Level for Color Contone Scan (other than text photo) | Range = 0 to 4095 | 0 |
| 620-261 | notTP_CL_Conto ne Offset Lvl AE | Offset level for Color Contone Scan (other than text photo) | Range = 0 to 4095 | 0 |
| 620-262 | 2F-AE LowLimit Multiplied Value | Two face AE control parameter: lower limit of multiplier coefficient | Range = 0 to 255 | 0 |
| 620-263 | 2F-AE TopLimit Multiplied Value | Two face AE control parameter: upper limit of multiplier coefficient | Range = 0 to 255 | 255 |
| 620-264 | Offset for 2F AE Control | Two face AE control parameter: comparison margin OFST | Range = 0 to 255 | 8 |
| 620-265 | Threshold for 2F AE Control | Two face AE control parameter: background level threshold LEVEL_N | Range = 0 to 255 | 16 |
| 620-266 | Mode Control of 2F AE | Two face AE control parameter: forced selection | Range = 0 to 3 | 0 |
| 620-267 | Two color copy control | - | Range = 0 to 1 | 0 |
| 620-268 | Tracing paper mode setting | - | Range = 0 to 1 | 0 |
| 620-269 | Def. ColorBal adj Y: low den. | Default color balance adjust- ment level Y: low density | Range = 0 to 8 | 4 |
| 620-270 | Def. ColorBal adj Y: med den. | Default color balance adjust- ment level Y: medium density | Range = 0 to 8 | 4 |
| 620-271 | Def. ColorBal adj Y: hi den. | Default color balance adjust- ment level Y: high density | Range = 0 to 8 | 4 |
| 620-272 | Def. ColorBal adj M: low den. | Default color balance adjust- ment level M: low density | Range = 0 to 8 | 4 |
| 620-273 | Def. ColorBal adj M: med den. | Default color balance adjust- ment level M: medium density | Range = 0 to 8 | 4 |
| 620-274 | Def. ColorBal adj M: hi den. | Default color balance adjust- ment level M: high density | Range = 0 to 8 | 4 |
| 620-275 | Def. ColorBal adj C: low den. | Default color balance adjust- ment level C: low density | Range = 0 to 8 | 4 |
| 620-276 | Def. ColorBal adj C: med den. | Default color balance adjust- ment level C: medium density | Range = 0 to 8 | 4 |
| 620-277 | Def. ColorBal adj C: hi den. | Default color balance adjust- ment level C: high density | Range = 0 to 8 | 4 |

Table 26 CCS NVM ID 620-200 to 620-299

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|--------------------|---------|
| 620-278 | Def. ColorBal adj K: low den | Default color balance adjust- ment level K: low density | Range = 0 to 8 | 4 |
| 620-279 | Def. ColorBal adj K: med den | Default color balance adjust- ment level K: medium density | Range = 0 to 8 | 4 |
| 620-280 | Def. ColorBal adj K: hi den | Default color balance adjust- ment level K: high density | Range = 0 to 8 | 4 |
| 620-281 | FS mag corr (PLATEN/BELT DADF) | FS magnification correction | Range = 0 to 100 | 50 |
| 620-282 | FS mag corr (CVT) | FS magnification correction | Range = 0 to 100 | 50 |
| 620-283 | IPS Through Bypass setting 1(A) | - | Range = 0 to 65535 | 0 |
| 620-284 | IPS through (bypass) setting 2 | - | Range = 0 to 65535 | 0 |
| 620-285 | BW COPY: text; normal dens adj | BW Copy: text; normal density adjustment | Range = 0 to 256 | 128 |
| 620-286 | BW COPY: text; Darker3 dens adj | BW Copy: text; Darker 3 density adjustment | Range = 0 to 256 | 128 |
| 620-287 | Scan/FAX: text; normal dens adj | Scan/Fax: text; normal density adjustment | Range = 0 to 256 | 128 |
| 620-288 | Scan/FAX: text; Darker3 dens adj | Scan/Fax: text; Darker 3 density adjustment | Range = 0 to 256 | 128 |
| 620-289 | PLTN RAE SS Not Detect Area | Speed prioritized background suppression; SS non-detection area for Platen M/C | Range = 0 to 65535 | 0 |
| 620-290 | DADF-P-Job RAE SSNotDetect Area | Speed prioritized background suppression; SS non-detec- tion area for platen job on SPDH M/C | Range = 0 to 65535 | 0 |
| 620-291 | DADF-D-Job RAE SSNotDe- tect Area | Speed prioritized background suppression; SS non-detec- tion area for SPDH job on SPDH M/C | Range = 0 to 65535 | 0 |
| 620-292 | Hue angle B start | - | Range = 0 to 360 | 270 |
| 620-293 | Hue angle B end | - | Range = 0 to 360 | 320 |
| 620-294 | Hue angle G start | - | Range = 0 to 360 | 110 |
| 620-295 | Hue angle G end | - | Range = 0 to 360 | 200 |
| 620-296 | Hue angle R start | - | Range = 0 to 360 | 350 |
| 620-297 | Hue angle R end | - | Range = 0 to 360 | 60 |
| 620-298 | Hue angle Y start | - | Range = 0 to 360 | 60 |
| 620-299 | Hue angle Y end | - | Range = 0 to 360 | 120 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|-------------------------------------|--------------------|---------|
| 620-300 | Hue angle M start | - | Range = 0 to 360 | 320 |
| 620-301 | Hue angle M end | - | Range = 0 to 360 | 360 |
| 620-302 | Hue angle C start | - | Range = 0 to 360 | 190 |
| 620-303 | Hue angle C end | - | Range = 0 to 360 | 280 |
| 620-304 | IISS-DADF com- munication Fail | - | Range = 0 to 65535 | 0 |
| 620-306 | IISS-Controller comm Fai | IISS Controller Communication Fail | Range = 0 to 65535 | 0 |
| 620-308 | DADF EEPROM Fail | - | Range = 0 to 65535 | 0 |
| 620-310 | IPS Fan Fail | - | Range = 0 to 65535 | 0 |
| 620-312 | CRG Position Fail | - | Range = 0 to 65535 | 0 |
| 620-314 | IISS LOGIC Fail | - | Range = 0 to 65535 | 0 |
| 620-316 | Lamp Illumina- tion Fail | - | Range = 0 to 65535 | 0 |
| 620-318 | CRG Over Run Fail | - | Range = 0 to 65535 | 0 |
| 620-320 | Lamp Fan Fail | - | Range = 0 to 65535 | 0 |
| 620-322 | CCD Fan Fail | - | Range = 0 to 65535 | 0 |
| 620-324 | AGC Fail | - | Range = 0 to 65535 | 0 |
| 620-326 | AOC Fail | - | Range = 0 to 65535 | 0 |
| 620-328 | IPS PWBA Fail | - | Range = 0 to 65535 | 0 |
| 620-330 | IISS-EXT com- munication Fail | - | Range = 0 to 65535 | 0 |
| 620-332 | Extension EEPROM Fail | - | Range = 0 to 65535 | 0 |
| 620-334 | IPS-EXT Connection Fail | - | Range = 0 to65535 | 0 |
| 620-336 | IPS-YATA Con- nection Fail | - | Range = 0 to 65535 | 0 |
| 620-338 | EXT-YATA Con- nection Fail | - | Range = 0 to 65535 | 0 |
| 620-340 | YATA PWBA Fail | - | Range = 0 to 65535 | 0 |
| 620-342 | IPS PWBA Mem- ory Fail | - | Range = 0 to 65535 | 0 |
| 620-344 | IIT Hot Line Fail | - | Range = 0 to 65535 | 0 |
| 620-346 | Scan Count replace life (upper) | Scan Count replacement life (upper) | Range = 0 to 65535 | 91 |

Table 27 CCS NVM ID 620-300 to 620-399

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|-------------------------|---------|
| 620-347 | Scan Count replace life (lower) | Scan Count replacement life (lower) | Range = 0 to 65535 | 36224 |
| 620-348 | Lamp-On time replace life (max) | Lamp-On time Count replacement life (upper) | Range = 0 to 65535 | 109 |
| 620-349 | Lamp-On time replace life (min) | Lamp-On time Count replacement life (lower) | Range = 0 to 65535 | 56576 |
| 620-350 | Lamp-On Count replace life (max) | Lamp-On Count Replacement life (upper) | Range = 0 to 65535 | 91 |
| 620-351 | Lamp-On Count replace life (min) | Lamp-On Count Replacement life (lower) | Range = 0 to 65535 | 36224 |
| 620-352 | Fax doc Size detect DADF | Fax Document Size Detection for SPDH | Range = 0 to 1 | 0 |
| 620-353 | JAM bypass | - | Range = 0 to 1 | 0 |
| 620-354 | 8.5 W11 LEF threshold | - | Range = 1993 to 2193 | 2093 |
| 620-355 | B5SEF / 8 W10 SEF switching | - | Range = 0 to 1 | 0 |
| 620-356 | 11x15 SEF/8-kai switch (AP Mkt) | 11 W15 SEF / 8-kai switching in AP market | Range = 0 to 1 | 0 |
| 620-357 | FS MAX value | - | Range = 1297 to 3070 | 2970 |
| 620-358 | FS MIN value | - | Range = 1297 to 3070 | 2970 |
| 620-359 | SS MAX value | - | Range = 1297 to 4418 | 2100 |
| 620-360 | SS MIN value | - | Range = 1297 to 4418 | 2100 |
| 620-361 | Document Size | - | Range = 3 to 20 | 8 |
| 620-362 | Specify docu- ment feed direc- tion | - | Range = 0 to 1 | 0 |
| 620-363 | DADF Doc Size Detection Table | Select SPDH document size detection table custom registration | Range = 0 to 1 | 0 |
| 620-364 | S Size Side2 Lead Regi Adjust | S-size document Side2 Lead Regi correction value | Range = 217 to 283 | 250 |
| 620-365 | M Size Side2 Lead Regi Adjust | M-size document Side2 Lead Regi correction value | Range = 217 to 283 | 250 |
| 620-366 | L Size Side2 Lead Regi Adjust | L-size document Side2 Lead Regi correction value | Range = 217 to 283 | 250 |
| 620-367 | Size Mismatch Set(Simp) | Size mismatch Jam detection setting (applicable to only Simplex Mode) | Range = 1 to 2 | 1 |

Table 27 CCS NVM ID 620-300 to 620-399

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|--|--------------------|---------|
| 620-368 | Alternate Size switching 1 | - | Range = 1 to 2 | 1 |
| 620-369 | Alternate Size switching 2 | - | Range = 1 to 2 | 1 |
| 620-370 | Alternate Size switching 3 | - | Range = 0 to 2 | 0 |
| 620-371 | Alternate Size switching 4 | - | Range = 0 to 2 | 0 |
| 620-372 | Alternate Size switching 5 | - | Range = 0 to 2 | 0 |
| 620-373 | Alternate Size switching 6 | - | Range = 0 to 3 | 0 |
| 620-374 | Alternate Size switching 7 | - | Range = 0 to 3 | 0 |
| 620-375 | Alternate Size switching 8 | - | Range = 0 to 4 | 0 |
| 620-376 | Alternate Size switching 9 | - | Range = 0 to 2 | 0 |
| 620-377 | Alternate Size switching 10 | - | Range = 0 to 2 | 0 |
| 620-378 | Alternate Size switching 11 | - | Range = 0 to 3 | 0 |
| 620-379 | Size-Mix Mode Assumed Size | Size Mix Mode temporary size direction | Range = 0 to 1 | 1 |
| 620-380 | Fax job Mix Size Standard mode | - | Range = 0 to 1 | 0 |
| 620-381 | DADF DPM selection | - | Range = 0 to 65535 | 80 |
| 620-382 | Magnification cor- rection control | - | Range = 0 to 1 | 0 |
| 620-383 | Color BW judg- ment level | - | Range = 0 to 4 | 2 |
| 620-384 | textmode Photo/ Text RecogLvl | YATAGRS text mode Photo and Text Recognition level | Range = 0 to 4 | 2 |
| 620-385 | BW copy (text photo) AE adj Ivl | BW copy (text photo) AE adjustment level | Range = 0 to 4095 | 0 |
| 620-386 | CL copy (text photo) AE adj Ivl | Color copy (text photo) AE adjustment level | Range = 0 to 4095 | 0 |
| 620-387 | BW Copy text AE adjustment level | BW Copy (text) AE adjust- ment level | Range = 0 to 4095 | 0 |
| 620-388 | CL Copy (text) AE adj Ivl | Color Copy (text) AE adjust- ment level | Range = 0 to 4095 | 0 |
| 620-389 | BW CopyFor B AE adjust level | BW Copy for B AE adjustment level | Range = 0 to 4095 | 0 |

Table 27 CCS NVM ID 620-300 to 620-399

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|--|-------------------|---------|
| 620-390 | BW Copy G and R AE adi Ivl | BW Copy for G and R AE adjustment level | Range = 0 to 4095 | 0 |
| 620-391 | CL Copy B AE adj | | Range = 0 to 4095 | 0 |
| 620-392 | CL Copy G and R AE adj Ivl | Color Copy for G and R AE adjustment level | Range = 0 to 4095 | 0 |
| 620-393 | BW Copy (text) B AE adj Ivl | BW Copy (text) for B AE adjustment level | Range = 0 to 4095 | 0 |
| 620-394 | BW Copy (text) G & R AE adj lvl | BW Copy (text) for G and R AE adjustment level | Range = 0 to 4095 | 0 |
| 620-395 | CL Copy (text) B AE adj Ivl | Color Copy (text) for B AE adjustment level | Range = 0 to 4095 | 0 |
| 620-396 | CL Copy (text) G & R AE adj lvl | Color Copy (text) for G and R AE adjustment level | Range = 0 to 4095 | 0 |
| 620-397 | EXT. Tail Reg. adj (55.0 mm/sec) | EXT. Tail Reg. adjustment (55.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-398 | EXT. Tail Reg. adj (73.3 mm/sec) | EXT. Tail Reg. adjustment (73.3 mm/sec) | Range = 0 to 244 | 122 |
| 620-399 | EXT. Tail Reg. adj (82.5 mm/sec) | EXT. Tail Reg. adjustment (82.5 mm/sec) | Range = 0 to 244 | 122 |

Table 28 CCS NVM ID 620-400 to 620-496

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|--|------------------|---------|
| 620-400 | EXT. Tail Reg. adj (110.0 mm/sec) | EXT. Tail Reg. adjustment (110.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-401 | EXT. Tail Reg. adj (146.7 mm/sec) | EXT. Tail Reg. adjustment (146.7 mm/sec) | Range = 0 to 244 | 122 |
| 620-402 | EXT. Tail Reg. adj (165.0 mm/sec) | EXT. Tail Reg. adjustment (165.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-403 | EXT. Tail Reg. adj (293.3 mm/sec) | EXT. Tail Reg. adjustment (293.3 mm/sec) | Range = 0 to 244 | 122 |
| 620-404 | EXT. Tail Reg. adj (220 mm/sec) | EXT. Tail Reg. adjustment (220 mm/sec) | Range = 0 to 244 | 122 |
| 620-405 | EXT. Tail Reg. adj (330 mm/sec) | EXT. Tail Reg. adjustment (330 mm/sec) | Range = 0 to 244 | 122 |
| 620-406 | EXT. Tail Reg. adj (440 mm/sec) | EXT. Tail Reg. adjustment (440 mm/sec) | Range = 0 to 244 | 122 |
| 620-407 | EXT. LE. adj (55.0 mm/sec) | EXT. Lead Edge. adjustment (55.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-408 | EXT. LE. adj (73.3 mm/sec) | EXT. Lead Edge. adjustment (73.3 mm/sec) | Range = 0 to 244 | 122 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|---|-------------------|---------|
| 620-409 | EXT. LE. adj (82.5 mm/sec) | EXT. Lead Edge. adjustment (82.5 mm/sec) | Range = 0 to 244 | 122 |
| 620-410 | EXT. LE. adj (110.0 mm/sec) | EXT. Lead Edge. adjustment (110.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-411 | EXT. LE. adj (146.7 mm/sec) | EXT. Lead Edge. adjustment (146.7 mm/sec) | Range = 0 to 244 | 122 |
| 620-412 | EXT. LE. adj (165.0 mm/sec) | EXT. Lead Edge. adjustment (165.0 mm/sec) | Range = 0 to 244 | 122 |
| 620-413 | EXT. LE. adj (293.3 mm/sec) | EXT. Lead Edge. adjustment (293.3 mm/sec) | Range = 0 to 244 | 122 |
| 620-414 | EXT. LE. adj (220 mm/sec) | EXT. Lead Edge. adjustment (220 mm/sec) | Range = 0 to 244 | 122 |
| 620-415 | EXT. LE. adj (330 mm/sec) | EXT. Lead Edge. adjustment (330 mm/sec) | Range = 0 to 244 | 122 |
| 620-416 | EXT. LE. adj (440 mm/sec) | EXT. Lead Edge. adjustment (440 mm/sec) | Range = 0 to 244 | 122 |
| 620-417 | CVT FS Offset 1p Duplex Side2-1 | - | Range = 0 to 240 | 120 |
| 620-418 | CVT FS Offset 1p Duplex Side2-2 | - | Range = 0 to 240 | 120 |
| 620-419 | CVT FS Offset 1p Duplex Side2-3 | - | Range = 0 to 240 | 120 |
| 620-420 | CVT FS Offset 1p Duplex Side2-4 | - | Range = 0 to 240 | 120 |
| 620-421 | CVT FS Offset 1p Duplex Side2-5 | - | Range = 0 to 240 | 120 |
| 620-422 | CVT FS Offset 1p Duplex Side2-6 | - | Range = 0 to 240 | 120 |
| 620-423 | CVT FS Offset 1p Duplex Side2-7 | - | Range = 0 to 240 | 120 |
| 620-424 | CVT FS Offset 1p Duplex Side2-8 | - | Range = 0 to 240 | 120 |
| 620-425 | CVT FS Offset 1p Duplex Side2-9 | - | Range = 0 to 240 | 120 |
| 620-426 | 1p Duplex Center Regi position | | Range = 0 to 7196 | 3598 |
| 620-427 | CIS black level Avg # lines | CIS black level average number of lines | Range = 0 to 3 | 3 |
| 620-428 | Target black level auto adjust | Target for black level auto adjust | Range = 0 to 255 | 16 |
| 620-429 | Target white level auto adjust | Target for white level auto adjust | Range = 0 to 1023 | 820 |
| 620-430 | Digital Offset Level | - | Range = 0 to 1023 | 512 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|--|--------------------|---------|
| 620-431 | Black Level Cor- rection Value | - | Range = 0 to 255 | 128 |
| 620-432 | White Level Cor- rection Value | - | Range = 0 to 255 | 255 |
| 620-433 | DIPS white level; Avg # lines | DIPS white level; the average number of lines | Range = 0 to 4 | 4 |
| 620-434 | white stability adj start point | White stability adjustment start point | Range = 0 to 4095 | 10 |
| 620-435 | white stability adj Avg area | White stability adjustment average area | Range = 0 to 255 | 217 |
| 620-436 | white stability adj Ref value | White stability adjustment Reference value | Range = 0 to 1023 | 962 |
| 620-437 | W-Ref density correction factor | - | Range = 100 to 255 | 158 |
| 620-438 | Fine adj hilite WhiteStability | Fine adjustment factor for highlight at white stability adjustment | Range = 80 to 120 | 100 |
| 620-439 | W-Ref den. corr factor set value | W-Ref density correction factor set value | Range = 0 to 255 | 255 |
| 620-440 | EXT. Lead Reg. adj (460 mm/sec) | Ext. Lead Reg. adjustment (460 mm/sec) | Range = 0 to 244 | 122 |
| 620-441 | EXT. Tail Edge. adj (460 mm/sec) | Ext. Tail Edge. adjustment (460 mm/sec) | Range = 0 to 244 | 122 |
| 620-442 | Switching main / sub | - | Range = 0 to 1 | 1 |
| 620-443 | Ship Garbage detection Thresh | Shading correction dust detection threshold at shipment | Range = 0 to 5000 | 500 |
| 620-444 | EXT Fail bypass | - | Range = 0 to 1 | 0 |
| 620-445 | Daimajin Fail bypass | - | Range = 0 to 1 | 0 |
| 620-446 | Data on WhiteSt- ability adj fail | Data obtained at white stability adjustment failure | Range = 0 to 1023 | 1023 |
| 620-447 | Pre ASIC Through setting 1 | - | Range = 0 to 8191 | 448 |
| 620-448 | BW-PG density | - | Range = 0 to 255 | 128 |
| 620-449 | FS non-detection area 1 | - | Range = 0 to 65535 | 255 |
| 620-450 | FS non-detection area 3 | - | Range = 0 to 65535 | 255 |
| 620-451 | SS fixed position | - | Range = 0 to 65535 | 60 |
| 620-452 | LIM control for BW COPY | - | Range = 0 to 1 | 1 |
| 620-453 | LIM control FAX and binary scan | LIM control for FAX and binary scan | Range = 0 to 1 | 1 |

Table 28 CCS NVM ID 620-400 to 620-496

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|-------------------|---------|
| 620-454 | LIM control for contone scan | - | Range = 0 to 1 | 1 |
| 620-455 | AE FS size detection control | - | Range = 0 to 1 | 0 |
| 620-457 | TopLimit SS mag corr AE param1 | Upper Limit of SS Magnification correction AE Parameter1 | Range = 0 to 4000 | 4000 |
| 620-458 | ship Thresh of Garbage Detect | Shading correction dust detection threshold in market | Range = 0 to 5000 | 2000 |
| 620-459 | Adjusting all Lead Regi at once | - | Range = 0 to 244 | 122 |
| 620-460 | Adjusting all Taile Edge at once | - | Range = 0 to 244 | 122 |
| 620-461 | Adjusting all FS offset at once | - | Range = 0 to 240 | 120 |
| 620-462 | TP_BW_Copy_F ax Removal IvI AE | Level for BW Copy Fax and binary scan: (print photo- graphic paper copy) | Range = 0 to 4095 | 0 |
| 620-463 | TP_BW_Copy_F ax Offset IvI AE | Offset level for BW Copy Fax and binary scan: (print photo- graphic paper copy) | Range = 0 to 4095 | 273 |
| 620-464 | TX_BW_Copy_F ax Removal IvI AE | Level for BW Copy Fax and binary scan: (normal pencil) | Range = 0 to 4095 | 0 |
| 620-465 | TX_BW_Copy_F ax Offset IvI AE | Offset level for BW Copy Fax and binary scan: (normal pencil) | Range = 0 to 4095 | 273 |
| 620-466 | TPL_BW_Copy_ Fax Removal IvI AE | Level for BW Copy Fax and binary scan: (pale-color docu- ment) | Range = 0 to 4095 | 0 |
| 620-467 | TPL_BW_Copy_ Fax Offset Ivl AE | Offset level for BW Copy Fax and binary scan: (pale-color document) | Range = 0 to 4095 | 273 |
| 620-468 | TRP_BW_Copy_ Fax Removal IvI AE | Level for BW Copy Fax and binary scan: (tracing paper) | Range = 0 to 4095 | 0 |
| 620-469 | TRP_BW_Copy_ Fax Offset IvI AE | Offset level for BW Copy Fax and binary scan: (tracing paper) | Range = 0 to 4095 | 273 |
| 620-470 | level BW Cont. Scan (TP) | Level for BW Contone Scan (text photo) | Range = 0 to 4095 | 0 |
| 620-471 | Off level BW Cont. Scan (TP) | Offset level for BW Contone Scan: (text photo) | Range = 0 to 4095 | 0 |
| 620-472 | level BW Cont. Scan (not TP) | Level for BW Contone Scan (other than text photo) | Range = 0 to 4095 | 0 |

Table 28 CCS NVM ID 620-400 to 620-496

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|--------------------|---------|
| 620-473 | Off level BW Cont. Scan (not TP) | Offset level for BW Contone Scan: (other than text photo) | Range = 0 to 4095 | 0 |
| 620-474 | EXT Major Ver- sion | - | Range = 0 to 65535 | 0 |
| 620-475 | EXT Minor Ver- sion | - | Range = 0 to 65535 | 0 |
| 620-476 | EXT Revision Version | - | Range = 0 to 65535 | 0 |
| 620-477 | EXT Patch Version | - | Range = 0 to 65535 | 0 |
| 620-478 | Def. ColorBal adj K: low den(2) | Default color balance adjust- ment level K: low density | Range = 0 to 8 | 4 |
| 620-479 | Def. ColorBal adj K: med den(2) | Default color balance adjust- ment level K: medium density | Range = 0 to 8 | 4 |
| 620-480 | Def. ColorBal adj K: hi den(2) | Default color balance adjust- ment level K: high density | Range = 0 to 8 | 4 |
| 620-481 | Photo and Text Recognition level | - | Range = 0 to 4 | 2 |
| 620-482 | FS mag Adjust (at CVT scan) | FS Magnification Adjustment (at CVT scan) | Range = 0 to 100 | 50 |
| 620-483 | IPS Through Bypass setting 1(B) | - | Range = 0 to 511 | 0 |
| 620-484 | BW COPY; text; normal den. adj | BW Copy; text; normal density adjustment | Range = 0 to 256 | 128 |
| 620-485 | BWCopyText- Darker 3 Density- Adjust | BW Copy; text; darker 3 density adjustment | Range = 0 to 256 | 128 |
| 620-486 | Scan/FAX; text normal den. adj | Scan/Fax; text normal density adjustment | Range = 0 to 256 | 128 |
| 620-487 | Scan/FAX; text darker3 den. adj | Scan/Fax; text darker 3 density adjustment | Range = 0 to 256 | 128 |
| 620-488 | SS non-detection band | - | Range = 0 to 65535 | 0 |
| 620-489 | SS end position (noise removal) | SS end position (for noise removal) | Range = 0 to 65535 | 240 |
| 620-490 | param SS mag corr TopLimit | Parameter SS Magnification correction Upper Limit | Range = 0 to 4000 | 4000 |
| 620-491 | dust detect threshold in mar- ket | Shading correction dust detection threshold in market | Range = 0 to 5000 | 500 |
| 620-492 | ShadingData blackline remove | Selection of Shading data for removing black line | Range = 0 to 1 | 1 |

Table 28 CCS NVM ID 620-400 to 620-496

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|---|--------------------|---------|
| 620-493 | White Reference ValueAtShipment | White reference value at ship- ment | Range = 0 to 1000 | 636 |
| 620-494 | White-corr multi- plier coeff | White correction multiplier coefficient | Range = 0 to 1 | 0 |
| 620-495 | Paper dust detection threshold | - | Range = 0 to 10000 | 150 |
| 620-496 | VALID starting position | - | Range = 0 to 1000 | 288 |

Table 29 CCS NVM ID 620-500 to 620-587

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|----------------------------|---------|
| 620-522 | DADH OpenDur- ingRunFC | 05-300 Fault Counter: SPDH open during run | Range = 0 to 255 | 0 |
| 620-523 | DADHLHCovInt- lockOpenDurin- gRunFC | 05-307 Fault Counter: SPDH LH cover interlock opened dur- ing run | Range = 0 to 255 | 0 |
| 620-524 | DADH Source Doc Too Short FC | 05-310 Fault Counter: SPDH Source Doc Too Short For SPDH | Range = 0 to 255 | 0 |
| 620-525 | LE late to post feed sensorS5 FC | 05-330 Fault Counter: LE late to post feed sensor S5 (misfeed) | Range = 0 to 255 | 0 |
| 620-526 | TE late to post feed sensorS5 FC | 05-331 Fault Counter: TE late to post feed sensor S5 (multifeed) | Range = 0 to 255 | 0 |
| 620-527 | LE late to TAR sensor S6 FC | 05-335 Fault Counter: LE late to TAR sensor S6 | Range = 0 to 255 | 0 |
| 620-528 | LE late to Reg. Sensor S7 FC | 05-340 Fault Counter: LE late to Reg. Sensor S7 | Range = 0 to 255 | 0 |
| 620-529 | LE late to Exit sensor S8 FC | 05-345 Fault Counter: LE late to Exit sensor S8 (FWD) | Range = 0 to 255 | 0 |
| 620-530 | TE late to Exit sensor S8 FC | 05-346 Fault Counter: TE late to Exit sensor S8 (FWD) | Range = 0 to 255 | 0 |
| 620-531 | LE late to CVT sensor S10 FWD FC | 05-350 Fault Counter: LE late to CVT sensor S10 (FWD) | Range = 0 to 255 | 0 |
| 620-532 | LE late to CVT sensor S10 REV FC | 05-352 Fault Counter: LE late to CVT sensor S10 (REV) | Range = 0 to 255 | 0 |
| 620-533 | IIT comm faults | IIT comm faults: Used to count a collection of IIT Comms faults that may occur (Read only) | Range = 0 to 4294967295 | 0 |

Table 29 CCS NVM ID 620-500 to 620-587

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|----------------------------|---------|
| 620-535 | Tot. Scanner Jams since power on | Total number of Scanner Jams since activation. | Range = 0 to 65535 | 0 |
| 620-548 | KernelCheck- SumErrorFC | Fault counter 305-250-00: Kernel Checksum Error | Range = 0 to 255 | 0 |
| 620-549 | Applica- tionCheckSumEr- rorFC | Fault counter 305-251-00: Application checksum error | Range = 0 to 255 | 0 |
| 620-550 | StepperControl- lerCommsEr- rorFC | Fault counter 305-252-00: Stepper Controller Comms Error | Range = 0 to 255 | 0 |
| 620-551 | IIT-DADHcom- msErrorFC | Fault counter 305-253-00: IIT- SPDH Comms Error | Range = 0 to 255 | 0 |
| 620-552 | CommsSequen- ceErrorFC | Fault counter 305-254-00: Comms Sequence Error | Range = 0 to 255 | 0 |
| 620-553 | DADHhotlineEr- rorFC | Fault counter 305-259-00: SPDH Hotline Error | Range = 0 to 255 | 0 |
| 620-554 | DADHnotInStand- byFC | Fault counter 305-260-00: SPDH not in standby | Range = 0 to 255 | 0 |
| 620-556 | Num of jobs scanned at 150 x 150 | 150 x 150 Scanned Lifetime Documents (Read only) | Range = 0 to 4294967295 | 0 |
| 620-586 | Dust Detection Threshold | IIT Dust Detection Threshold | Range = 0 to 65535 | 0 |
| 620-587 | Dust Detection Level | IIT Dust Detection Level | Range = 0 to 65535 | 0 |

Table 30 CCS NVM ID 621-001 to 641-002

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|--|-----------------------|---------|
| 621-001 | NUP Layout Pat- tern | - | Range = 0 to 1 | 0 |
| 621-002 | Rotation enabled for RE | Determines whether rotation is enabled for reduction/ enlargement. | | 1 |
| 621-003 | Rotation enabled for APS | Determines whether rotation is enabled for APS. | 0 = False 1 = True | 1 |
| 621-004 | Signature Layout Changeable | - | Range = 0 to 1 | 0 |
| 621-005 | Use New Mes- saging | - | Range = 0 to 1 | 1 |
| 621-006 | Rotation Debug | - | Range = 0 to 1 | 1 |

Table 30 CCS NVM ID 621-001 to 641-002

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|---|---|---------|
| 621-009 | Previous Market Region | Defines previous market region | 0 = USCO 1 = XCL 2 = FX 3 = FXAPO 4 = ACO 5 = RX | 0 |
| 621-010 | Lakes Legacy Scan | - | Range = 0 to 1 | 1 |
| 625-001 | | NextScanJobID (Read only) | Range = 1 to 199 | 1 |
| 633-001 | spuiNeedsToInit- Nvm | SP UI Needs To Init Nvm | Range = 0 to 1 | 1 |
| 641-001 | Internal Image- PrintJobPriority | Internal image print job priority | Range = 1 to 65535 | 1 |
| 641-002 | NextTestPattern- JobID | Value of next test pattern job's id (Read only) | Range = 1 to 999 | 1 |

Table 31 CCS NVM ID 648-001 to 648-022

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------------|--|-------------------|---------|
| 648-001 | rs422 Configured | Determines whether RS422 is configured. | 0=False 1=True | 0 |
| 648-002 | accessory Card Configured | Determines whether accessory card is configured. | 0=False 1=True | 1 |
| 648-003 | foreign interface Configured | Determines whether foreign interface is configured. | 0=False 1=True | 0 |
| 648-004 | rdt Modem Con- figured | Determines whether RDT Modem is configured. | 0=False 1=True | 0 |
| 648-005 | RS422 (EPSV) Config Mismatch | Fault counter for RS422 configuration mismatch. | Range = 0 to 255 | 0 |
| 648-006 | Accessory Card Config Mismatch | Fault counter for accessory card configuration mismatch. | Range = 0 to 255 | 0 |
| 648-007 | RDT Config Mis- match Fault | Fault counter for RDT configuration mismatch. | Range = 0 to 255 | 0 |
| 648-008 | NC Comm Lost Fault | Fault counter for ESS communication lost fault. | Range = 0 to 255 | 0 |
| 648-009 | DC Crash Detected Fault | Fault counter for detection of DC crash on power up. | Range = 0 to 255 | 0 |
| 648-010 | UI Comm Lost Fault | Fault counter for UI communication lost fault. | Range = 0 to 255 | 0 |
| 648-011 | Power Loss Detected Fault | Fault counter for power loss detected fault. | Range = 0 to 255 | 0 |
| 648-012 | DC Platform Install Phase | Defines DC platform's current install phase. | Range = 0 to 4 | 4 |

Table 31 CCS NVM ID 648-001 to 648-022

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|---------|
| 648-013 | UI Comms fail- ureFC | Fault counter 303-346-00: UI communication failure. | Range = 0 to 255 | 0 |
| 648-014 | NC Comm Dead Fault | Fault counter 303-332-00: ESS communication is down fault. | Range = 0 to 255 | 0 |
| 648-015 | DCPMF.SPMGR. PWS | Defines current state of communication to the PWS. | Range = 0 to 10 | 0 |
| 648-016 | Machine Phone Number Setup | Defines whether machine phone number has been set up. | 0=False 1=True | 0 |
| 648-017 | DC Platform Post Upgrade Phase | | Range = 0 to 1 | 0 |
| 648-018 | DCPlatformPos- tUpgradeRetry Cnt | DC Platform Post Upgrade Retry Count | Range = 0 to 255 | 0 |
| 648-021 | Controller comm faults | Controller comm faults: Used to count a collection of Control- ler Comms faults that may occur (Read only) | Range = 0 to 4294967295 | 0 |
| 648-022 | UI comm faults | UI comm faults: Used to count a collection of UI Comms faults that may occur (Read only) | Range = 0 to 4294967295 | 0 |

Table 32 CCS NVM ID 649-001 to 649-014

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------|--|-------------------|---------|
| 649-001 | LargePaperCount | Determines whether double count is enabled | 0=False 1=True | 0 |
| 649-002 | CancelJobTimer- Value | This specifies the amount of time FI will wait (seconds) before deleting a job when authentication has been removed. | Range = 0 to 900 | 60 |
| 649-003 | PreCountDuration | - | Range = 0 to 200 | 100 |
| 649-004 | CountDuration | - | Range = 0 to 200 | 100 |
| 649-005 | PostCountDura- tion | - | Range = 0 to 200 | 100 |
| 649-006 | ExitDuration | - | Range = 0 to 200 | 100 |
| 649-007 | EnableOnInter- nalCredits | - | Range = 0 to 1 | 0 |
| 649-008 | DeviceType | - | Range = 0 to 4 | 0 |
| 649-009 | PremiumSelect | - | Range = 0 to 5 | 0 |
| 649-010 | CopyRestricted | - | Range = 0 to 1 | 1 |

Table 32 CCS NVM ID 649-001 to 649-014

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------|-----------------|----------------|---------|
| 649-011 | PrintRestricted | - | Range = 0 to 1 | 0 |
| 649-012 | s2fRestricted | - | Range = 0 to 1 | 0 |
| 649-013 | EFaxSen- dRestricted | - | Range = 0 to 1 | 0 |
| 649-014 | EFaxReceiveRe- stricted | - | Range = 0 to 1 | 0 |

Table 33 CCS NVM ID 652-001 to 652-079

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------------------|--|--------------------|---------|
| 652-001 | User Accounts | User Accounts (Read only) | Range = 0 to 65535 | 2001 |
| 652-002 | General Accounts | General Accounts (Read only) | Range = 0 to 65535 | 501 |
| 652-003 | Not displayed | Auditron Accounts | Range = 0 to 0 | 0 |
| 652-004 | submitPolicy | Submit Policy | Range = 0 to 2 | 0 |
| 652-005 | jobMgmtPolicy | Job Mgmt Policy | Range = 0 to 2 | 1 |
| 652-006 | authPolicy | Copy Authentication Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-007 | acctPolicy | Copy Accounting Policy (none, internal, external, EPSV, or JBA) | Range = 0 to 8 | 0 |
| 652-008 | invalidAccount- Policy | Invalid Account Policy | Range = 0 to 2 | 1 |
| 652-009 | nullAccountPolicy | Null Account Policy | Range = 0 to 2 | 1 |
| 652-010 | PrintAuthentica- tionPolicy | Print Authentication Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-011 | PrintAccounting- Policy | Print Accounting Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-012 | InvalidAccount- Policy | Invalid Account Policy | Range = 0 to 2 | 1 |
| 652-013 | NullAccountPolicy | Null Account Policy | Range = 0 to 2 | 1 |
| 652-014 | ScanToFileAu- thenticationPolicy | Scan to File Authentication Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-015 | ScanToFileAc- countingPolicy | Scan to File Accounting Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-016 | ScanToFileIn- validPinPolicy | Scan To File Invalid Pin Policy | Range = 0 to 2 | 1 |
| 652-017 | ScanTo- FileNullPinPolicy | Scan To File Null Pin Policy | Range = 0 to 2 | 1 |

Table 33 CCS NVM ID 652-001 to 652-079

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|----------------------------|---------|
| 652-018 | Auditron - Set Hour | Auditron - Set Hour | Range = 0 to 23 | 0 |
| 652-019 | Auditron - Set Minute | Auditron - Set Minute | Range = 0 to 59 | 0 |
| 652-020 | Auditron - Set Second | Auditron - Set Second | Range = 0 to 59 | 0 |
| 652-021 | Auditron - Set Month | Auditron - Set Month | Range = 0 to 12 | 1 |
| 652-022 | Auditron - Set Day | Auditron - Set Day | Range = 0 to 31 | 1 |
| 652-023 | Auditron - Set Year | Auditron - Set Year | Range = 70 to 135 | 70 |
| 652-024 | Auditron - Wall Clock | Auditron - Wall Clock | Range = 0 to 4294967295 | 0 |
| 652-025 | ticity Policy | Fax Send Authentication Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-026 | Fax Send Accounting Policy | Fax Send Accounting Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-027 | Fax Send Invalid Pin Policy | Fax Send Invalid Pin Policy | Range = 0 to 2 | 1 |
| 652-028 | Fax Send Null Pin Policy | Fax Send Null Pin Policy | Range = 0 to 2 | 1 |
| 652-029 | Fax Receive Authenticity Pol- icy | Fax Receive Authentication Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-030 | Fax Receive Accounting Policy | Fax Receive Accounting Policy (none, internal, external, EPSV or JBA) | Range = 0 to 8 | 0 |
| 652-031 | Fax Receive Invalid Pin Policy | Fax Receive Invalid Pin Policy | Range = 0 to 2 | 1 |
| 652-032 | Fax Receive Null Pin Policy | Fax Receive Null Pin Policy | Range = 0 to 2 | 1 |
| 652-033 | CopyAcivity | Copy Activity | Range = 0 to 4294967295 | 0 |
| 652-038 | HolePunchCount | Hole Punch Count | Range = 0 to 4294967295 | 0 |
| 652-039 | StapleCount | Staple Count | Range = 0 to 4294967295 | 0 |
| 652-040 | CustomerName | Customer Name | Range = 0 to 4294967295 | 0 |
| 652-041 | MonoImpression- Count | Mono Impression Count | Range = 0 to 4294967295 | 0 |

Table 33 CCS NVM ID 652-001 to 652-079

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|---------------------------------|--------------------|---------|
| 652-042 | ColourImpres- sionCount | Colour Impression Count | Range = 0 to 1 | 0 |
| 652-043 | CopyActivityPen | Copy Activity Pen | Range = 0 to 4 | 0 |
| 652-046 | CopyActivityJo- bIDGenerator | Copy Activity Job ID Generator | Range = 2 to 65535 | 256 |
| 652-049 | PermService- SOAValues | Perm Service SOA Values | Range = 0 to 255 | 1 |
| 652-050 | PermCreateJob | Perm Create Job | Range = 0 to 255 | 7 |
| 652-051 | PermCancelJob | Perm Cancel Job | Range = 0 to 255 | 23 |
| 652-052 | PermInterruptJob | Perm Interrupt Job | Range = 0 to 255 | 3 |
| 652-053 | PermPauseJob | Perm Pause Job | Range = 0 to 255 | 3 |
| 652-054 | PermQueryJob | Perm Query Job | Range = 0 to 255 | 7 |
| 652-055 | PermResumeJob | Perm Resume Job | Range = 0 to 255 | 3 |
| 652-056 | PermSubmitJob | Perm Submit Job | Range = 0 to 255 | 7 |
| 652-057 | PermJobLOAVal- ues | Perm Job LOA Values | Range = 0 to 255 | 7 |
| 652-058 | PermJobSOAVal- ues | Perm Job SOA Values | Range = 0 to 255 | 3 |
| 652-059 | PermCreateDoc- ument | Perm Create Document | Range = 0 to 255 | 7 |
| 652-060 | PermDeleteDocu- ment | Perm Delete Document | Range = 0 to 255 | 18 |
| 652-061 | PermDocument- LOAValues | Perm Document LOA Values | Range = 0 to 255 | 7 |
| 652-062 | PermDocument- SOAValues | Perm Document SOA Values | Range = 0 to 255 | 3 |
| 652-063 | PermProofJob | Perm Proof Job | Range = 0 to 255 | 7 |
| 652-064 | PermProofDocu- ment | Perm Proof Document | Range = 0 to 255 | 7 |
| 652-065 | PermPromoteJob | Perm Promote Job | Range = 0 to 255 | 5 |
| 652-066 | PermHoldJob | Perm Hold Job | | 3 |
| 652-067 | PermReleaseJob | Perm Release Job | Range = 0 to 255 | 35 |
| 652-069 | Tiered level 1 copy accounting | Tiered level 1 copy | Range = 0 to 1 | 0 |
| 652-070 | Tiered level 1 print | Tiered level 1 print accounting | Range = 0 to 1 | 0 |
| 652-071 | JBA display restricted | JBA display restricted | Range = 0 to 1 | 1 |
| 652-076 | JBA display fields 0 | JBA display fields 0 | Range = 0 to 1 | 1 |
| 652-077 | JBA display fields 1 | JBA display fields 1 | Range = 0 to 1 | 1 |

Table 33 CCS NVM ID 652-001 to 652-079

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------|---------------------|----------------|---------|
| 652-078 | JBA display masks 0 | JBA Display masks 0 | Range = 0 to 1 | 0 |
| 652-079 | JBA diplay masks 1 | JBA Display masks 1 | Range = 0 to 1 | 0 |

Table 34 CCS NVM ID 656-001 to 656-005

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|------------------|---------|
| 656-001 | Image Disk READ Failure. | Fault counter 319-300-00: Image disk read failure | Range = 0 to 255 | 0 |
| 656-002 | Image Disk WRITE Failure. | Fault counter 319-301-00: Image disk write failure | Range = 0 to 255 | 0 |
| 656-003 | Image Disk BAD DATA ERROR. | Fault counter 319-302-00: Image disk bad data error | Range = 0 to 255 | 0 |
| 656-004 | ImageDiskUna- bleToFormatError. | Fault counter 319-303-00: Image disk unable to format | Range = 0 to 255 | 0 |
| 656-005 | Image Disk NoDiskCapacity- Error | Fault counter 319-310-00: Image disk capacity not given at power on | Range = 0 to 255 | 0 |

Table 35 CCS NVM ID 658-001 to 658-159

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------|---|--|---------|
| 658-001 | TonerEmptyD- spLoc | Toner empty display location | Range = 0 to 3 | 0 |
| 658-002 | FdRollLife | - | Range = 0 to 200 | 150 |
| 658-003 | PDRNNotify | - | Range = 0 to 16 | 0 |
| 658-004 | SupplyInfoFlag | Supply Info Flag | 0 = UI 1 = Network 2 = Both 3 = Neither | 0 |
| 658-005 | CruMgrDebug- Print | CRU manager debug printouts | 0 = False 1 = True | 0 |
| 658-006 | PDRNNotifyProc | PDRN Notify Proc | 0 = False 1 = True | 0 |
| 658-007 | FuserReorderMs- gTrig | Reorder message displayed (days before End of Life) | Range = 1 to 25 | 3 |
| 658-008 | XeroReorderMs- gTrig | Reorder message displayed (days before End of Life) | Range = 1 to 25 | 3 |
| 658-009 | FuserReorderD- spLoc | - | Range = 0 to 3 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|---------|
| 658-010 | XeroReorderD- spLoc | - | Range = 0 to 3 | 0 |
| 658-011 | FuserRepIDspLoc | - | Range = 0 to 3 | 0 |
| 658-012 | XeroReplDspLoc | - | Range = 0 to 3 | 0 |
| 658-013 | ColorantReor- derMsgTrig XC Market | Stores remaining threshold value to trigger low supplies warning. | Range = 0 to 65535 | 7 |
| 658-014 | DADHRollReor- derMsgTrig XC Market | Reorder Threshold value for SPDH roller (if CRU) - (US Market Region Setting) | Range = 0 to 65535 | 10 |
| 658-016 | ColorantReor- derMsgTrig XE Market | Stores remaining threshold value to trigger low supplies warning. | Range = 0 to 65535 | 3 |
| 658-017 | DADHRollReor- derMsgTrig XE Market | Reorder Threshold value for SPDH roller - (European Mar- ket Region Setting) | Range = 0 to 65535 | 6 |
| 658-019 | ImageUnitReor- derMsgTrig | Reorder Threshold value for Imaging Units | Range = 0 to 65535 | 5 |
| 658-020 | FuserReorderMs- gTrigger | Reorder Threshold value for Fuser | Range = 0 to 65535 | 5 |
| 658-021 | XferRollerReor- derMsgTrig | Reorder Threshold value for Transfer Roller | Range = 0 to 65535 | 5 |
| 658-022 | XferBeltReor- derMsgTrig | Reorder Threshold value for Transfer Belt | Range = 0 to 65535 | 5 |
| 658-023 | DayCounter | Counts the number of days in which a threshold number of impressions have occurred. | Range = 0 to 255 | 0 |
| 658-024 | DayUsage | Stores the number of impressions made every day. | Range = 0 to 4294967295 | 0 |
| 658-025 | adpvThreshold | Minimum number of impressions to consider the day to be a usage day. | Range = 0 to 65535 | 20 |
| 658-026 | ImpressionSnap- shot | Total impressions to deter- mine daily usage | Range = 0 to 4294967295 | 0 |
| 658-027 | adpv | Average daily volume | Range = 0 to 10000 | 500 |
| 658-028 | PagesBlackCRU | Pages per Black Colorant | Range = 0 to 4294967295 | 26800 |
| 658-030 | Last ADPV Calc Date | Last ADPV Calc Date | Range = 0 to 4294967295 | 0 |
| 658-031 | ReorderMsgTrig- Percent | Reorder Threshold value (Percent %) for toner | Range = 0 to 65535 | 5 |
| 658-032 | ScanFeedDay- Counter | Counts the number of days in which a threshold number of SPDH feeds have occurred. | Range = 0 to 255 | 0 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------|--|----------------------------|---------|
| 658-033 | ScanFeedDay- Usage | Stores the number of scan feeds made every day being counted. | Range = 0 to 4294967295 | 0 |
| 658-034 | adsfvThreshold | Minimum number of SPDH feeds to consider the day to be a usage day. | Range = 0 to 65535 | 5 |
| 658-035 | DADFFeedsS- napshot | Captured at the end of each day, to be used for comparison to total SPDH feeds to determine daily usage. | Range = 0 to 4294967295 | 0 |
| 658-036 | adsfv | Average daily scan feed volume. | Range = 0 to 4294967295 | 100 |
| 658-037 | Last ADSFV Calc Date | Last ADSFV Calc Date captured when ADSFV is calculated (Read only). | Range = 0 to 4294967295 | 0 |
| 658-038 | ScanFeedUsage- CalcDuration | This determines how often the ADSFV calculation is refreshed. | Range = 1 to 255 | 10 |
| 658-039 | MarkUsageCal- cDuration | This determines how often the ADPV calculation is refreshed. | Range = 1 to 255 | 5 |
| 658-040 | ScanFeedUsage- CalcFrequency | This determines how often ADSFV is calculated. | 1 = Calculate daily | 1 |
| 658-041 | MarkUsageCal- cFrequency | This determines how often ADPV is calculated. | 1 = Calculate daily | 1 |
| 658-042 | LowInkMsgTrig- Percent | Low Ink threshold value (Percent %) for Ink warning. | Range = 0 to 255 | 10 |
| 658-043 | day1MarkVolume | ADPV Day 1: Number of impressions made in day 1 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-044 | day2MarkVolume | ADPV Day 2: Number of impressions made in day 2 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-045 | day3MarkVolume | ADPV Day 3: Number of impressions made in day 3 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-046 | day4MarkVolume | ADPV Day 4: Number of impressions made in day 4 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-047 | day5MarkVolume | ADPV Day 5: Number of impressions made in day 5 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-048 | day6MarkVolume | ADPV Day 6: Number of impressions made in day 6 of the adpv duration . | Range = 0 to 10000 | 1000 |

Table 35 CCS NVM ID 658-001 to 658-159

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------------------|---|--------------------|---------|
| 658-049 | day7MarkVolume | ADPV Day 7: Number of impressions made in day 7 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-050 | day8MarkVolume | ADPV Day 8: Number of impressions made in day 8 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-051 | day9MarkVolume | ADPV Day 9: Number of impressions made in day 9 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-052 | day10MarkVolum e | ADPV Day 10: Number of impressions made in day 10 of the adpv duration. | Range = 0 to 10000 | 1000 |
| 658-053 | day1ScanFeedVo lume | impressions made in day 1 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-054 | day2ScanFeedVo lume | ADSFV Day 2: Number of impressions made in day 2 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-055 | day3ScanFeedVo lume | ADSFV Day 3: Number of impressions made in day 3 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-056 | day4ScanFeedVo lume | ADSFV Day 4: Number of impressions made in day 4 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-057 | day5ScanFeedVo lume | ADSFV Day 5: Number of impressions made in day 5 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-058 | day6ScanFeedVo lume | ADSFV Day 6: Number of impressions made in day 6 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-059 | day7ScanFeedVo lume | ADSFV Day 7: Number of impressions made in day 7 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-060 | day8ScanFeedVo lume | ADSFV Day 8: Number of impressions made in day 8 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-061 | day9ScanFeedVo lume | impressions made in day 9 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-062 | day10ScanFeedV olume | ADSFV Day 10: Number of impressions made in day 10 of the adsfv duration. | Range = 0 to 10000 | 100 |
| 658-063 | Not displayed | Current K Toner Cartridge Total Area Coverage | Range = 0 to 0 | 0 |

Table 35 CCS NVM ID 658-001 to 658-159

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|----------------------------|-------------|
| 658-077 | DrumReorderMs- gTrig XC Market | Reorder Threshold value (Days) for Drum Cartridges (US Market Region | Range = 0 to 65535 | 10 |
| 658-078 | DrumReorderMs- gTrig XE Market | Reorder Threshold value (Days) for Drum Cartridges (European Market Region Set- ting) | Range = 0 to 65535 | 6 |
| 658-086 | FuserReorderMs- gTrig XC Market | Reorder threshold value (days) for Fuser Unit (US Market Region Setting) | Range = 0 to 65535 | 0 |
| 658-087 | FuserReorderMs- gTrig XE Market | Reorder threshold value (days) for Fuser Unit (European Mar- ket Region Setting) | Range = 0 to 65535 | 0 |
| 658-088 | XeroReorderMs- gTrig XC Market | Reorder threshold value (days) for Xerographic Unit (US Market Region Setting) | Range = 0 to 65535 | 7 |
| 658-089 | XeroReorderMs- gTrig XE Market | Reorder threshold value (days) for Xerographic Unit (European Market Region Setting) | Range = 0 to 65535 | 3 |
| 658-090 | TonerKReor- derMsgSup- pressed | Toner reorder latch | Range = 0 to 1 | 0 |
| 658-091 | TonerKReor- derMsgSup- pressed | Toner reorder message sup- pression on local UI | Range = 0 to 1 | 0 |
| 658-092 | TonerAverage- PercentPerDay | Toner CRU Average Daily Dispense percent (Toner Average-PercentPerDay) | Range = 0 to 100 | 2 |
| 658-093 | TonerKFilterCon- stant | Toner CRU Filter ConstantDe- fines the level of adjustment for each cycle | Range = 0 to 65535 | 20 |
| 658-094 | TonerKDailyDis- penseLowLimit | Toner CRU Daily Dispense Time Lower Limit in ms. | Range = 0 to 4294967295 | 0 |
| 658-095 | TonerKDailyDis- penseHiLimit | Toner CRU Daily Dispense Time Upper Limit in ms. | Range = 0 to 4294967295 | 150000 0 |
| 658-096 | TonerKLastCum- DispenseTime | Toner CRU Previous Cumulative Dispense Time | Range = 0 to 4294967295 | 0 |
| 658-097 | TonerKLastCum- DispenseTime- Date | Toner CRU date/time of last Cumulative Dispense Time calculation (wall clock) | Range = 0 to 4294967295 | 0 |
| 658-098 | AutoCleaning- Interval | Charge Scorotron Auto Cleaning interval. Frequency in k sheets for when an Auto Scorotron cleaning request is displayed. | Range = 2 to 50 | 20 |

Table 35 CCS NVM ID 658-001 to 658-159

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--------------------------------------|--|----------------------------|---------|
| 658-099 | NumImagesDelivered | Number of images delivered | Range = 0 to 4294967295 | 0 |
| 658-100 | FuserKReor- derMsgLatched | FRU CRU reorder latch | Range = 0 to 1 | 0 |
| 658-101 | FuserKReor- derMsgSup- pressed | FRU CRU reorder message suppression on local UI | Range = 0 to 1 | 0 |
| 658-108 | FuserKAvDaily- WebCount | FRU CRU Average Daily Web Count | Range = 0 to 4294967295 | 1000 |
| 658-109 | FuserKFilterCon- stant | FRU CRU Web Count Filter Constant Defines the level of adjustment for each cycle | Range = 0 to 65535 | 20 |
| 658-110 | FuserKDailyWe- bLowLimit | FRU CRU Web Count Daily Usage Lower Limit | Range = 0 to 4294967295 | 20 |
| 658-111 | FuserKDailyWeb- HiLimit | FRU CRU Web Count Daily Usage Upper Limit | Range = 0 to 4294967295 | 150000 |
| 658-112 | FuserKLastWeb- Count | FRU CRU Previous Cumulative Web Count | Range = 0 to 4294967295 | 0 |
| 658-113 | TonerLastAPPD- Date | Toner CRU date/time of when toner AveragePercentPerDay last calculated | Range = 0 to 4294967295 | 0 |
| 658-114 | XruReorderMs- gLatched | XRU CRU reorder latch | Range = 0 to 1 | 0 |
| 658-115 | XruReorderMsg- Suppressed | XRU CRU reorder message suppression on local UI | Range = 0 to 1 | 0 |
| 658-122 | XruAvDailyCy- cleCount | XRU CRU Average Daily Cycle Count | Range = 0 to 4294967295 | 2000 |
| 658-123 | XruCycleFilter- Constant | XRU CRU Daily Cycle Count Lower Limit | Range = 0 to 65535 | 20 |
| 658-124 | XruDailyCy- cleLowLimit | XRU CRU Daily Cycle Count Lower Limit | Range = 0 to 4294967295 | 20 |
| 658-125 | XruDailyCycle- HiLimit | XRU CRU Daily Cycle Count Upper Limit | Range = 0 to 4294967295 | 250000 |
| 658-126 | XruLastCy- cleCount | XRU CRU Last Cumulative Usage Count | Range = 0 to 4294967295 | 0 |
| 658-127 | XruLastCy- cleCountDate | XRU CRU date/time of saving Last Cumulative Cycle Count (wall clock) | Range = 0 to 4294967295 | 0 |
| 658-128 | XruLastPrint- Count | XRU CRU Last print count - for maintaining CRUM data | Range = 0 to 16777215 | 0 |
| 658-129 | XruLastCopy- Count | XRU CRU Last copy count - for maintaining CRUM data | Range = 0 to 16777215 | 0 |
| 658-130 | XruLastFaxCount | XRU CRU Last fax count - for maintaining CRUM data | Range = 0 to 16777215 | 0 |

Table 35 CCS NVM ID 658-001 to 658-159

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|---------|
| 658-150 | WasteReor- derMsgLatched | Waste Toner CRU reorder latch | Range = 0 to 1 | 0 |
| 658-151 | WasteReorderAc- knowledged | Waste Toner CRU reorder acknowledged | Range = 0 to 1 | 0 |
| 658-152 | TonerCRULast DispenseTime | Toner CRU Last Cumulative Dispense Time for replace- ment | Range = 0 to 4294967295 | 700 |
| 658-153 | Toner- CRUCDTRE- plamcentThreshol d | Toner CRU Cumulative Dis- pense Time replacement threshold | Range = 0 to 4294967295 | 6000 |
| 658-158 | BTRreorderTri- gUS | Reorder Threshold value for Bias Transfer Roller (US Mar- ket region) | Range = 0 to 20 | 0 |
| 658-159 | BTRreorder- TrigEUR | Reorder Threshold value for Bias Transfer Roller (European Market region) | Range = 0 to 20 | 0 |
| 658-165 | I2cCRUMBusErro rFaultCountFC | Fault Counter 41-001 | Range = 0 to 255 | 0 |

Table 36 CCS NVM ID 665-001 to 665-003

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|--|----------------|---------|
| 665-001 | Out Of Resource Policy | Specify what JBA should do when it runs out of space. | Range = 0 to 1 | 0 |
| 665-002 | Comm Failed Policy | Specify what JBA should do if it can't communicate with the ESS. | Range = 0 to 2 | 0 |
| 665-003 | EAS Validation Enable | Specify if JBA should Authorize logins and submit jobs with the ESS. | Range = 0 to 1 | 1 |

Table 37 CCS NVM ID 671-001 to 671-018

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|----------------------------|---------|
| 671-001 | EFaxSendJobPri- ority | EFax Send Job Priority | Range = 0 to 4294967295 | 700 |
| 671-004 | EMBFAX- SENDTransmitI- magesDisplay | EMB Fax Send Transmit Images Displayable | Range = 0 to 1 | 1 |
| 671-011 | SendShortJobRe- coveryWaitTime | Send Short Job Recovery Wait Time | Range = 1 to 255 | 5 |

Table 37 CCS NVM ID 671-001 to 671-018

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|------------------|---------|
| 671-012 | SendJobRecov- erySendRespTim- eout | Send Job Recovery Send Response Timeout | Range = 1 to 255 | 120 |
| 671-013 | SendJobRecov- eryWaitTime | Send Job Recovery Wait Time | Range = 1 to 255 | 120 |
| 671-014 | SendJobRecover- ImageRespTime- out | Send Job Recovery Image Response Timeout | Range = 1 to 255 | 120 |
| 671-015 | SendJobRecov- ComplQUpdate Timeout | Send Job Recovery Com- pleted Q Update Timeout | Range = 1 to 255 | 120 |
| 671-016 | SendJobRecov- eryCreateJobTim- eout | Send Job Recovery Create Job Timeout | Range = 1 to 255 | 3 |
| 671-017 | SendLow- FaxMemoryWait- Time | Send Low Fax Memory Wait Time | Range = 1 to 255 | 20 |
| 671-018 | SendJobRecov- eryRetryCounter | Send Job Recovery Retry Counter | Range = 1 to 255 | 3 |

Table 38 CCS NVM ID 672-001 to 672-017

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|--|----------------------------|---------|
| 672-001 | EFaxReceive- JobPriority | EFax Receive Job Priority | Range = 1 to 4294967295 | 3 |
| 672-004 | EMBFAXRE- CEIVESheetsDis- playable | EMB Fax Receive Sheets Displayable | Range = 0 to 1 | 0 |
| 672-005 | Not displayed | EMB Fax Receive Duplex Sheets | Range = 0 to 16777215 | 0 |
| 672-006 | EFaxRecPlex- SheetsDisplay- able | EMB Fax Receive Duplex Sheets Displayable | Range = 0 to 1 | 0 |
| 672-007 | Not displayed | EMB Fax Receive Large Sheets | Range = 0 to 16777215 | 0 |
| 672-008 | EMBFAXRE- CEIVE- LargeSheetsDispl ay | EMB Fax Receive Large Sheets Displayable | Range = 0 to 1 | 0 |
| 672-013 | Emb Fax Rec Marked Images Disp | EMB Fax Receive Marked Images Displayable | Range = 0 to 1 | 1 |
| 672-014 | NextImageTime- Out | Next Image TimeOut | Range = 100 to 1000 | 300 |

Table 38 CCS NVM ID 672-001 to 672-017

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|--|------------------|---------|
| 672-016 | | EF Print Completed Job Log Location | Range = 0 to 70 | 0 |
| 672-017 | EF Card Distur- bance Timeout | EF Card Disturbance Timeout | Range = 1 to 255 | 12 |

Table 39 CCS NVM ID 673-001 to 673-023

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---|---|---|---------|
| 673-001 | Postpone fax install | Postpone fax install | Range = 0 to 1 | 0 |
| 673-002 | EmbeddedFax Basic Previous State | Indication of whether the Fax Card was detected at previous powerup. | 0 = Not present 1 = Present and con- figured 2 = Present but not yet configured | 0 |
| 673-003 | EmbeddedFaxEx- tendedPrevi- ousState Not displayed | Embedded Fax Extended Previous State | Range = 0 to 2 | 0 |
| 673-005 | Basic FAX Not Detected Fault | Fault counter 303-401-00: Basic fax not detected | Range = 0 to 255 | 0 |
| 673-006 | Fax Phonebook Download Fault | Fault counter 320-701-00: Fax phonebook download failed | Range = 0 to 255 | 0 |
| 673-007 | Extended FAX Not Detected Fault | Fault counter 303-403-00: Extended fax not detected | Range = 0 to 255 | 0 |
| 673-008 | Fax Unexpected Reset Fault | Fault counter 320-302-00: Unexpected reset | Range = 0 to 255 | 0 |
| 673-009 | Fax BasicCar- dUnrecoverable Fault | Fault counter 320-303-00: Fax Basic Card Unrecoverable Fault | Range = 0 to 255 | 0 |
| 673-010 | Fax Sys Low Mem Unrecover Fault | Fault counter 320-305-00: Fax System Low Memory Unrecov- erable Fault | Range = 0 to 255 | 0 |
| 673-011 | Fax Not Cleared By Reset Fault | Fault counter 320-320-00: Fax card not cleared by rese | Range = 0 to 255 | 0 |
| 673-012 | Fax Basic Card Failed Fault | Fault counter 320-341-00: Basic fax card failed | Range = 0 to 255 | 0 |
| 673-013 | Fax Extended Card Failed Fault | Fault counter 320-327-00: Extended fax card failed | Range = 0 to 255 | 0 |
| 673-014 | Fax NV Device Not Present Fault | Fault counter 320-322-00: Fax NVM Not Present | Range = 0 to 255 | 0 |

Table 39 CCS NVM ID 673-001 to 673-023

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|--|---|----------------------------|---------|
| 673-015 | Fax System Low Mem Recover Fault | Fax System Low Memory Recoverable Fault | Range = 0 to 255 | 0 |
| 673-016 | Fax Out Of File Memory Fault | Fault counter 320-324-00: Fax Out of File Memory Fault | Range = 0 to 255 | 0 |
| 673-017 | Fax File Integrity Fault | Fault counter 320-342-00: Fax - Error access file on NV | Range = 0 to 255 | 0 |
| 673-018 | Fax Network Line 1 Fault | Fault counter 320-331-00: Fax - No Comms via PSTN Line 1 | Range = 0 to 255 | 0 |
| 673-019 | Fax Network Line 2 Fault | Fault counter 320-332-00: Fax - No Comms via PSTN Line 2 | Range = 0 to 255 | 0 |
| 673-020 | Fax Port 1 Fault | Fault counter 320-339-00: Fax Port 1 fault | Range = 0 to 255 | 0 |
| 673-021 | Fax Port 2 Fault | Fault counter 320-340-00: Fax Port 2 fault | Range = 0 to 255 | 0 |
| 673-023 | Fax comm faults | Used to count a collection of Fax Comms faults that may occur (Read only) | Range = 0 to 4294967295 | 0 |

Table 40 CCS NVM ID 674-001 to 674-004

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|--------------------|---------|
| 674-001 | LastXferImag- eServiceId | Efax recovery last image service ID (Read only) | Range = 0 to 65535 | 0 |
| 674-002 | LastXferImageJo- bld | Efax recovery last image job ID (Read only) | Range = 0 to 65535 | 0 |
| 674-003 | LastXferImage- DocId | Efax recovery last image doc ID (Read only) | Range = 0 to 65535 | 0 |
| 674-004 | LastXferImageIm- ageId | Efax recovery last image image ID (Read only) | Range = 0 to 65535 | 0 |

Table 41 Finisher NVM ID 712-100 to 712-103

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-------------|--|--------------------------------|---------|
| 712-100 | BMStaplePos | Used to adjust the LVF BM staple position relative to the center of the sheet(s) | 0.1mm/step Range = 0 to 400 | 200 |
| 712-101 | BMFoldPos | Used to adjust the LVF BM fold position relative to the center of the sheet(s) | 0.1mm/step Range = 0 to 400 | 200 |

Table 41 Finisher NVM ID 712-100 to 712-103

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|--|----------------------------------|---------|
| 712-102 | BMLateralAnvil- PosFront | Used to adjust the LVF BM staple head anvil cross process position relative to the staple head | 0.2666mm/step Range = 0 to 20 | 10 |
| 712-103 | BMLateralAnvil- PosRear | Used to adjust the LVF BM staple head anvil cross process position relative to the staple head | 0.2666mm/step Range = 0 to 20 | 10 |

Table 42 IIT NVM ID 801-001 to 801-214

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------|-------------------------------------|--|---------|
| 801-001 | DADH Centre Reg Side 1 | SPDH centre registration side 1 | Pixels Range = 3609 to 3965 | 3787 |
| 801-002 | DADH LE Reg Side 1 | SPDH lead edge registration side 1 | Scan Lines Range = 0 to 150 | 0 |
| 801-003 | Platen Top Edge Reg | Platen top edge registration | Pixels Range = 0 to 500 | 278 |
| 801-004 | Platen Lead Edge Reg | Platen LE registration | Scan Lines Range = 0 to 150 | 0 |
| 801-005 | Cal Strip Posn | Calibration strip position (0.1 mm) | 0.1 mm increments Range = 0 to 2715 | 252 |
| 801-006 | Test A Posn | Test A position | 0.1 mm increments Range = 0 to 4923 | 1000 |
| 801-007 | Test B Posn | Test B position | 0.1 mm increments Range = 0 to 4923 | 1500 |
| 801-008 | Test C Posn | Test C position | 0.1 mm increments Range = 0 to 4923 | 2000 |
| 801-010 | AGC Enable Side 1 | AGC enable side 1 | 1 = Enable 0 = Disable Range = 0 to 1 | 1 |
| 801-011 | DarkSetPoint Side 1 | Dark set point side 1 | Grey Level in whole number Range = 0 to 50 | 0 |
| 801-012 | Scanner CVT position | Scan CVT position | 0.1 mm increments Range 0 to 32 | 12 |
| 801-013 | Scanner Doc Size Pos | Doc size position | 0.1 mm increments Range = 0 to 2715 | 417 |
| 801-014 | Scan LE Hotline | Scan LE hot line | 0.1 mm increments Range = 0 to 327 | 307 |

Table 42 IIT NVM ID 801-001 to 801-214

| Table 42 | IIT N | II MVP | 801- | 001 to | 801-21 | 4 |
|----------|-------|--------|------|--------|--------|---|
|----------|-------|--------|------|--------|--------|---|

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------|----------------------------|---|---------|
| 801-015 | Mono Set Point Side 1 | Mono set point side 1 | Grey Level in whole number Range = 170 to 255 | 224 |
| 801-016 | Red Set Point Side 1 | Red set point side 1 | Grey Level in whole number Range = 170 to 255 | 223 |
| 801-017 | Green Set Point Side 1 | Green set point side 1 | Grey Level in whole number Range = 170 to 255 | 224 |
| 801-018 | Blue Set Point Side 1 | Blue set point side 1 | Grey Level in whole number Range = 170 to 255 | 230 |
| 801-020 | CvtWhiteRef- Mono Side 1 | CVT White Ref Mono Side 1 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 296 |
| 801-021 | CvtWhiteRefRed Side 1 | CVT White Ref Red Side 1 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 304 |
| 801-022 | CvtWhiteRef- Green Side 1 | CVT White Ref Green Side 1 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 301 |

| | | ble 42 III NVM ID 801-001 to | | Г |
|---------|--------------------------------|--|---|---------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 801-023 | CvtWhiteRefBlue Side 1 | CVT White Ref Blue Side 1 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 290 |
| 801-027 | DADH / Platen Configuration | SPDH / platen configuration | 0 = SPDH / Platen present 1 = Platen only Range = 0 to 1 | 0 |
| 801-046 | PlatenMechMag | Platen Mech Mag | Range = 0 to 1 | 0 |
| 801-047 | CVT Mech Mag | CVT Mech Mag side 1 | Range = 0 to 1 | 0 |
| 801-058 | Service Plan mirror | Service plan - CCS NVM mirrored value. (Read only). Refer to CCS 606-269 | 0 = Sold 1 = Non Sold 2 = Third Party 3 = XeroxMan- agedSupplies 4 = PagePack 5 = DMO Sold | 3 |
| 801-059 | Market Region mirror | Market Region - CCS NVM mirrored value. (Read only). Refer to CCS 616-001 | 0 = US 1 = XCL(Canada) 2 = FX (Fuji Xerox Japan) 3 = FXAPO (Fuji Xerox Asian Pacific) 4 = ACO(Latin) 5 = RX(Europe) 6 = MRDmoEast 7 = MRDmoWest | 0 |
| 801-061 | Machine Speed mirror | Machine Speed - CCS NVM mirrored value. (Read only). Refer to CCS 616-003 | Machine speed (Nominal ppm, not actual) Range = 0 to 255 | 255 |
| 801-062 | Serial Number mirror 1_2 | Machine Serial number - CCS NVM mirrored value. (Read only). Refer to CCS 616-023 | Range = 0 to 65535 | 12336 |
| 801-063 | Serial Number mirror 3_4 | Machine Serial number - CCS NVM mirrored value. (Read only). Refer to CCS 616-023 | Range = 0 to 65535 | 12336 |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------------------------------|---|--|---------|
| 801-064 | Serial Number mirror 5_6 | Machine Serial number - CCS NVM mirrored value. (Read only). Refer to CCS 616-023 | Range = 0 to 65535 | 12336 |
| 801-065 | Serial Number mirror 7_8 | Machine Serial number - CCS NVM mirrored value. (Read only). Refer to CCS 616-023 | Range = 0 to 65535 | 12336 |
| 801-066 | Serial Number mirror 9_10 | Machine Serial number - CCS NVM mirrored value. (Read only). Refer to CCS 616-023 | Range = 0 to 65535 | 12336 |
| 801-067 | Platen speed Adjustment 0.1% | Platen speed Adjustment 0.1% | Range = 900 to 1100 | 1000 |
| 801-068 | Mag Compensa- tion Side 1 | Mag Compensation 0.01% steps | Range = 0 to 200 | 100 |
| 801-069 | Mag Compensa- tion Side 2 | Mag Compensation 0.01% steps | Range = 0 to 200 | 100 |
| 801-070 | Overscan for DADH | Overscan for SPDH in all directions | Range = 0 to 4 | 0 |
| 801-071 | PWM % light mul- tiplier Side 1 | 55 Pwm Light Multipler for increasing / decreasing the pwm % 2 decimal place | Range = 0 to 255 | 150 |
| 801-073 | AutoInit_IIT_S1_ Version | The version of the side 1 NVM that will cause an side 1 NVM initialisation if differ- ent from the version held in the current SW set | Increment to cause an IIT NVM initiali- sation after SW upgrade. Range = 0 to 65535 | 25 |
| 801-074 | Calibration Control Side 1 | Bit mask that controls when calibration is performed on side 1 | Range = 0 to 65535 | 0 |
| 801-079 | AgcStartPixel Side 1 | AGC Start Pixel Side 1 | Indicates the start pixel number. Range = 10 to 100 | 10 |
| 801-080 | ScannerPaper- Code | Scanner Paper Code | Range = 1 to 10 | 5 |
| 801-081 | PlatenWhiteRe- fRed | Platen White Ref Red | Range = 128 to 512 | 260 |
| 801-082 | PlatenWhiteRef- Green | Platen White Ref Green | Range = 128 to 512 | 262 |
| 801-083 | PlatenWhiteRef- Blue | Platen White Ref Blue | Range = 128 to 512 | 260 |
| 801-084 | PlatenWhiteRef- Mono | Platen White Ref Mono | Range = 128 to 512 | 262 |

| | ıa | ble 42 IIT NVM ID 801-001 to | 001-214 | |
|---------|------------------------------|---------------------------------|-------------------|---------|
| NVM ID | NVM Name | NVM Description | Settings | Default |
| 801-093 | FpgaGainSide1R egister1 | FPGA Gain Side 1 Register 1 | Range = 70 to 170 | 100 |
| 801-094 | FpgaGainSide1R egister2 | FPGA Gain Side 1 Register 2 | Range = 70 to 170 | 100 |
| 801-095 | FpgaGainSide1R egister3 | FPGA Gain Side 1 Register 3 | Range = 70 to 170 | 100 |
| 801-096 | FpgaGainSide1R egister4 | FPGA Gain Side 1 Register 4 | Range = 70 to 170 | 100 |
| 801-097 | FpgaGainSide1R egister5 | FPGA Gain Side 1 Register 5 | Range = 70 to 170 | 100 |
| 801-098 | FpgaGainSide1R egister6 | FPGA Gain Side 1 Register 6 | Range = 70 to 170 | 100 |
| 801-099 | FpgaGainSide1R egister7 | FPGA Gain Side 1 Register 7 | Range = 70 to 170 | 100 |
| 801-100 | FpgaGainSide1R egister8 | FPGA Gain Side 1 Register 8 | Range = 70 to 170 | 100 |
| 801-101 | FpgaGainSide1R egister9 | FPGA Gain Side 1 Register 9 | Range = 70 to 170 | 100 |
| 801-102 | FpgaGainSide1R egister10 | FPGA Gain Side 1 Register 10 | Range = 70 to 170 | 100 |
| 801-103 | FpgaGainSide1R egister11 | FPGA Gain Side 1 Register 11 | Range = 70 to 170 | 100 |
| 801-104 | FpgaGainSide1R egister12 | FPGA Gain Side 1 Register 12 | Range = 70 to 170 | 100 |
| 801-105 | FpgaGainSide1R egister13 | FPGA Gain Side 1 Register 13 | Range = 70 to 170 | 100 |
| 801-106 | FpgaGainSide1R egister14 | FPGA Gain Side 1 Register 14 | Range = 70 to 170 | 100 |
| 801-107 | FpgaGainSide1R egister15 | FPGA Gain Side 1 Register 15 | Range = 70 to 170 | 100 |
| 801-108 | FpgaGainSide1R egister16 | FPGA Gain Side 1 Register 16 | Range = 70 to 170 | 100 |
| 801-109 | FpgaGainSide1R egister17 | FPGA Gain Side 1 Register 17 | Range = 70 to 170 | 100 |
| 801-110 | FpgaGainSide1R egister18 | FPGA Gain Side 1 Register 18 | Range = 70 to 170 | 100 |
| 801-111 | FpgaGainSide1R egister19 | FPGA Gain Side 1 Register 19 | Range = 70 to 170 | 100 |
| 801-112 | FpgaGainSide1R egister20 | FPGA Gain Side 1 Register 20 | Range = 70 to 170 | 100 |
| 801-113 | WhiteRefTarget- PlatRed | White Ref Target Plat Red | Range = 0 to 255 | 238 |
| 801-114 | WhiteRefTarget- PlatGreen | White Ref Target Plat Green | Range = 0 to 255 | 238 |

Table 42 IIT NVM ID 801-001 to 801-214

| NVM ID | IVM ID NVM Name NVM Description | | Settings | Default |
|---------|---------------------------------------|--------------------------------------|---|---------|
| 801-115 | WhiteRefTarget- PlatBlue | White Ref Target Plat Blue | Range = 0 to 255 | 238 |
| 801-116 | WhiteRefTarget- PlatMono | White Ref Target Plat Mono | Range = 0 to 255 | 238 |
| 801-117 | WhiteRefTar- getCvtRed Side 1 | White Ref Target CVT Red Side 1 | Range = 0 to 255 | 238 |
| 801-118 | WhiteRefTar- getCvtGreen Side 1 | White Ref Target CVT Green Side 1 | Range = 0 to 255 | 238 |
| 801-119 | WhiteRefTar- getCvtBlue Side 1 | WhiteRef Target CVT Blue Side 1 | Range = 0 to 255 | 238 |
| 801-120 | WhiteRefTar- getCvtMono Side 1 | White Ref Target CVT Mono Side 1 | Range = 0 to 255 | 238 |
| 801-121 | Mag Adjust Con- trol | Mag Adjust Control | Range = 0 to 6 | 0 |
| 801-137 | LED cal correction factor Side 1 | LED cal correction factor Side 1 | Range = 0 to 4 | 3 |
| 801-138 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 0 Side 1 | | 512 |
| 801-139 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 1 Side 1 | Range = 0 to 2047 | 0 |
| 801-140 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 2 Side 1 | Range = 0 to 2047 | 0 |
| 801-141 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 3 Side 1 | Range = 0 to 2047 | 0 |
| 801-142 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 4 Side 1 | Range = 0 to 2047 | 512 |
| 801-143 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 5 Side 1 | Range = 0 to 2047 | 0 |
| 801-144 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 6 Side 1 | Range = 0 to 2047 | 0 |
| 801-145 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 7 Side 1 | Range = 0 to 2047 | 0 |
| 801-146 | dc2006 BEcoeffi- cient 0 Side 1 | dc2006 BEcoefficient 8 Side 1 | Range = 0 to 2047 | 512 |
| 801-149 | No of Platen Cal Fail Retries | Number of Platen Cal Fail Retries | Range = 0 to 5 | 2 |
| 801-208 | Detect Paper Size 2 | Detect Paper Size 2 | 0 = A5 1 = 8.5 x 5.5 2 = Auto Media Size Group Set | 2 |
| 801-211 | Test Pattern Doc Count | Test Pattern Doc Count | Range = 0 to 65535 | 0 |

Table 42 IIT NVM ID 801-001 to 801-214

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|------------|---|--------------------|---------|
| 801-213 | TotalS1Nvm | Total number of S1 and S2 NVMs for this build | Range = 0 to 65535 | 69 |
| 801-214 | | IIT NVM Table version used to generate the code (read only) | Range = 0 to 65535 | 1063 |

Table 43 IIT NVM ID 803-001 to 803-213

| NVM ID NVM Name NVM I | | NVM Description | Settings | Default |
|-----------------------|--|------------------------------------|---|---------|
| 803-001 | DADH Centre Reg Side 2 | SPDH centre registration side 2 | Range = 3543 to 3899 | |
| 803-002 | DADH LE Reg Side 2 | SPDH lead edge registration side 2 | Scan Lines Range = 0 to 150 | 0 |
| 803-010 | AGC Enable Side 2 | AGC enable side 2 | AGC enable side 2 1 = Enable 0 = Disable Range = 0 to 1 | |
| 803-011 | DarkSetPoint Side 2 | Dark set point side 2 | Grey Level in whole number Range = 0 to 50 | 0 |
| 803-015 | | | 224 | |
| 803-016 | Red Set Point Side 2 | Red set point side 2 | Grey Level in whole number Range = 170 to 255 | 223 |
| 803-017 | Green Set Point Side 2 | ' ' | | 224 |
| 803-018 | -018 Blue Set Point Side 2 Blue set point side 2 Grey Level in whole number Range = 170 to 255 | | whole number Range = 170 to | 230 |
| 803-020 | CvtWhiteRef- Mono Side 2 | CVT White Ref Mono Side 2 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 294 |

| NVM ID | NVM Name | NVM Description | Settings | Default | |
|---------|-------------------------------|--|---|---------|--|
| 803-021 | CvtWhiteRefRed Side 2 | CVT White Ref Red Side 2 | 0 corresponds to 50% compensa- tion, 150 corre- sponds to no compensation and 300 corresponds to 200% compensa- tion. Range = 128 to 512 | 295 | |
| 803-022 | CvtWhiteRef- Green Side 2 | CVT White Ref Green Side 2 | Ref Green Side 0 corresponds to 50% compensation, 150 corresponds to no compensation and 300 corresponds to 200% compensation. Range = 128 to 512 | | |
| 803-023 | CvtWhiteRefBlue Side 2 | | | 286 | |
| 803-027 | DocHandlerCon- figuration | SPDH / Platen configuration | Range = 0 to 1 | 0 | |
| 803-047 | CVT Mech Mag Side 2 | CVT Mech Mag Side 2 | Range = 0 to 1 | 0 | |
| 803-071 | PWM % light multiplier Side 2 | | | 150 | |
| 803-073 | AutoInit_IIT_S1_ Version | The version of the side 2 NVM that will cause a side 2 NVM initialisation if differ- ent from the version held in the current SW set | Increment to cause an IIT NVM initiali- sation after SW upgrade. Range = 0 to 65535 | 16 | |
| 803-074 | Calibration Control Side 2 | Bit mask that controls when calibration is performed on side 2 | Range = 0 to 65535 | 0 | |

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|-----------------------------|---|---|---------|
| 803-075 | Mag Compensation 300 Side 2 | Mag Compensation 0.01% steps Side 2 | Side 2 Mag Compensation 0.01% (0 = -1% 200 = +1%) Range = 0 to 200 | 100 |
| 803-076 | Mag Compensation 560 Side 2 | Mag Compensation 0.01% Side 2 Mag Compensation 0.01% (0 = -1% 200 = +1%) Range = 0 to 200 | | 100 |
| 803-077 | Mag Compensation 150 Side 2 | Mag Compensation 0.01% steps Side 2 | Side 2 Mag Com- pensation 0.01% (0 = -1% 200 = +1%) Range = 0 to 200 | 100 |
| 803-078 | Mag Compensation 280 Side 2 | Mag Compensation 0.01% steps Side 2 | Side 2 Mag Compensation 0.01% (0 = -1% 200 = +1%) Range = 0 to 200 | 100 |
| 803-079 | AgcStartPixel Side 2 | AGC Start Pixel Side 2 | Indicates the start pixel number. Range = 10 to 200 | 10 |
| 803-113 | FpgaGainSide1R egister1 | FPGA Gain Side 2 Register | Range = 70 to 170 | 100 |
| 803-114 | FpgaGainSide1R egister2 | FPGA Gain Side 2 Register 2 | Range = 70 to 170 | 100 |
| 803-115 | FpgaGainSide1R egister3 | FPGA Gain Side 2 Register 3 | Range = 70 to 170 | 100 |
| 803-116 | FpgaGainSide1R egister4 | FPGA Gain Side 2 Register 4 | Range = 70 to 170 | 100 |
| 803-117 | FpgaGainSide1R egister5 | FPGA Gain Side 2 Register 5 | Range = 70 to 170 | 100 |
| 803-118 | FpgaGainSide1R egister6 | FPGA Gain Side 2 Register 6 | Range = 70 to 170 | 100 |
| 803-119 | FpgaGainSide1R egister7 | FPGA Gain Side 2 Register 7 | Range = 70 to 170 | 100 |
| 803-120 | FpgaGainSide1R egister8 | FPGA Gain Side 2 Register 8 | Range = 70 to 170 | 100 |
| 803-121 | FpgaGainSide1R egister9 | FPGA Gain Side 2 Register | Range = 70 to 170 | 100 |
| 803-122 | FpgaGainSide1R egister10 | FPGA Gain Side 2 Register | Range = 70 to 170 | 100 |
| 803-123 | FpgaGainSide1R egister11 | FPGA Gain Side 2 Register | Range = 70 to 170 | 100 |
| 803-124 | FpgaGainSide1R egister12 | FPGA Gain Side 2 Register 12 | Range = 70 to 170 | 100 |
| 803-125 | FpgaGainSide1R egister13 | FPGA Gain Side 2 Register 13 | Range = 70 to 170 | 100 |

Table 43 IIT NVM ID 803-001 to 803-213

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|---------------------------------------|---|-------------------|---------|
| 803-126 | FpgaGainSide1R egister14 | FPGA Gain Side 2 Register 14 | Range = 70 to 170 | 100 |
| 803-127 | FpgaGainSide1R egister15 | FPGA Gain Side 2 Register 15 | Range = 70 to 170 | 100 |
| 803-128 | FpgaGainSide1R egister16 | FPGA Gain Side 2 Register 16 | Range = 70 to 170 | 100 |
| 803-129 | FpgaGainSide1R egister17 | FPGA Gain Side 2 Register Range = 70 to 170 | | 100 |
| 803-130 | FpgaGainSide1R egister18 | FPGA Gain Side 2 Register 18 | Range = 70 to 170 | 100 |
| 803-131 | FpgaGainSide1R egister19 | FPGA Gain Side 2 Register 19 | Range = 70 to 170 | 100 |
| 803-132 | FpgaGainSide1R egister20 | FPGA Gain Side 2 Register 20 | Range = 70 to 170 | 100 |
| 803-133 | WhiteRefTar- getCvtRed Side 2 | White Ref Target CVT Red Side 2 | Range = 0 to 255 | 238 |
| 803-134 | WhiteRefTar- getCvtGreen Side 2 | White Ref Target CVT Green Side 2 | Range = 0 to 255 | 238 |
| 803-135 | WhiteRefTar- getCvtBlue Side 2 | WhiteRef Target CVT Blue Side 2 | Range = 0 to 255 | 238 |
| 803-136 | WhiteRefTar- getCvtMono Side 2 | White Ref Target CVT Mono Side 2 | Range = 0 to 255 | 238 |
| 803-137 | LED cal correction factor Side 2 | DC945 LED cal correction factor side 2 | Range = 0 to 4 | 3 |
| 803-138 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 0 Side 2 | Range = 0 to 2047 | 512 |
| 803-139 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 1 Side 2 | Range = 0 to 2047 | 0 |
| 803-140 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 2 Side 2 | Range = 0 to 2047 | 0 |
| 803-141 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 3 Side 2 | Range = 0 to 2047 | 0 |
| 803-142 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 4 Side 2 | Range = 0 to 2047 | 512 |
| 803-143 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 5 Side 2 | Range = 0 to 2047 | 0 |
| 803-144 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 6 Side Range = 0 to 2047 | | 0 |
| 803-145 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 7 Side Range = 0 to 2047 (| | 0 |
| 803-146 | dc2006 BEcoeffi- cient 0 Side 2 | dc2006 BEcoefficient 8 Side 2 | Range = 0 to 2047 | 512 |

Table 43 IIT NVM ID 803-001 to 803-213

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------|---|--------------------|---------|
| | | Number of Platen Cal Fail Retries | Range = 0 to 5 | 2 |
| 803-213 | | Total number of S1 and S2 NVMs for this build | Range = 0 to 65535 | 35 |

Table 44 IIT NVM ID 805-001 to 805-032

| NVM ID NVM Name NVM Descr | | NVM Description | Settings | Default |
|---------------------------|----------------------------------|--|--|---------|
| 805-001 | Page Counter | Page count error tracking | Range = 0 to 65535 | 0 |
| 805-002 | Jam Error Count | Jam error count tracking | Range = 0 to 65535 | 0 |
| 805-003 | Pick Error Count | Pick error count tracking | Pick error count tracking Range = 0 to 65535 | |
| 805-004 | Lead Edge Side 1 Colour 600 | Lead edge registration side 1 colour 600 | Range = -50 to 50 | 0 |
| 805-005 | Lead Edge Side 1 Mono 600 | Lead edge registration side 1 mono 600 | Range = -50 to 50 | 0 |
| 805-006 | Lead Edge Side 1 Colour 1200 | Lead edge registration side 1 colour 1200 | Range = -50 to 50 | 0 |
| 805-007 | Lead Edge Side 1 Mono 1200 | Lead edge registration side 1 mono 1200 | Range = -50 to 50 | 0 |
| 805-008 | Lead Edge Side 2 Colour 600 | Lead edge registration side 2 colour 600 | | |
| 805-009 | Lead Edge Side 2 Mono 600 | Lead edge registration side 2 mono 600 | | |
| 805-010 | Lead Edge Side 2 Colour 1200 | Lead edge registration side 2 colour 1200 | Range = -50 to 50 | 0 |
| 805-011 | Lead Edge Side 2 Mono 1200 | Lead edge registration side 2 mono 1200 | Range = -50 to 50 | 0 |
| 805-012 | Cal strip Speed Adjust | Calibration strip speed adjustment | Range = 0 to 3660 | 200 |
| 805-018 | Speed Adjust Colour 600 | Adjusts sheet speed over the scan head | Range = -30 to 30 | 0 |
| 805-019 | Speed Adjust Mono 600 | Adjusts sheet speed over the scan head | Range = -30 to 30 | 0 |
| 805-020 | Speed Adjust Colour 1200 | Adjusts sheet speed over the scan head | Range = -30 to 30 | 0 |
| 805-021 | Speed Adjust Mono 1200 | Adjusts sheet speed over the scan head | Range = -30 to 30 | 0 |
| 805-022 | Scaling Data Position | Calibration Strip Hotline Range = -50 to 50 Position | | -21 |
| 805-023 | Motor Speed Side 1 Colour 600 | Side 1 feed motor Speed. | Range = -30 to 30 | 0 |

Table 44 IIT NVM ID 805-001 to 805-032

| NVM ID | NVM Name | NVM Description | Settings | Default |
|---------|----------------------------------|---|------------------|---------|
| 805-024 | Motor Speed Side 1 Mono 600 | Side 1 feed motor Speed. Range = -30 to 30 | | 0 |
| 805-025 | Motor Speed Side 2 Colour 600 | Side 2 feed motor Speed. Range = -30 to 30 (| | 0 |
| 805-026 | Motor Speed Side 2 Mono 600 | Side 2 feed motor Speed. Range = -30 to 30 | | 0 |
| 805-027 | Registration Loop | Size of De-skew buckle | Range = 0 to 200 | 60 |
| 805-028 | Timing Sensor Adjustment | Sensor Light Level (Read only) | Range = 0 to 255 | 255 |
| 805-029 | TRA Sensor | Sensor Light Level (Read Range = 0 to 255 only) | | 255 |
| 805-030 | PreScan Sensor | Sensor Light Level (Read only) | Range = 0 to 255 | 255 |
| 805-031 | Mid Scanner | Sensor Light Level (Read only) | Range = 0 to 255 | 255 |
| 805-032 | Hardware Configuration | Hardware Configuration | Range = 0 to 255 | 0 |

dC132 Serial Number

Purpose

To restore the machine serial number.

Procedure

- Enter service mode, GP 1.
- Select the Maintenance tab.
- Select dC132 Machine Serial Number.
- 4. The machine identifier code (serial number) or '########' is displayed.
- If the displayed serial number does not match the number on the serial number label (Figure 1) or '########" is displayed, the serial number is corrupt. Perform Serial Number Restore.

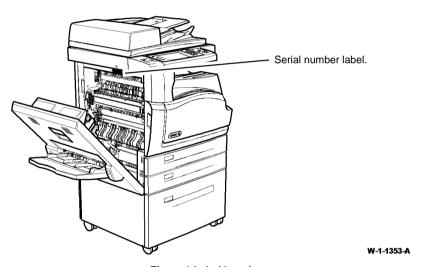


Figure 1 Label location

Serial Number Restore

- Select the Generate New Identifier Code button. The new machine identifier code will be displayed in the window above the button.
- Contact your next level of support to complete, then submit an ACAST form that includes the new machine identifier code (called machine unique identifier on the ACAST form) and other required information.
- Once the ACAST form is processed, a new passcode will be provided. Re-enter dC132, then select Enter Passcode.
- 4. Enter the new passcode.
- 5. Select Enter.
- Select Close to exit the routine.
- Select Call Closeout to exit service mode. Select Exit and Reboot.

dC134 Market Region

Purpose

To provide the option to select and set the appropriate market region for the machine.

Procedure

- Enter service mode, GP 1.
- 2. Select the Maintenance tab.
- 3. Select dC134 Market Region from the scroll list.
- Select the 0 US button for operation in North America or Canada.
 Select the 5 Europe button for operation in all other market regions.
- 5. Select Save.
- Select Close to exit routine.
- 7. Select Call Closeout to exit service mode.
- 8. Select Exit and Reboot.

dC135 CRU/HFSI Status

Purpose

To view the counters for customer replacement units (CRU) and high frequency service items (HFSI) indicating the type, name and percent remaining.

There are 2 types of CRUs. Some of the CRUs are equipped with CRU Monitor (CRUM) chips that are used for the management of data relevant to that particular CRU. Other CRUs do not have CRUMs; the management of these consumables is dependant upon the user to confirm replacement.

ERU's – Engineer Replaceable Units. These are typically replaced by a service technician, and do not trigger user warnings as end of life is reached. Of these, some are classified as HFSI, meaning that these will probably need to be replaced during the normal life expectancy of the machine.

Procedure

NOTE: The upper entry in the HFSI list is blank.

1. Enter service mode, GP 1.

- 2. Select the Service Info tab.
- Select dC135 CRU/HFSI.
- 4. Refer to Table 1 to observe the status of the items.
- 5. To reset the HFSI file:
 - Select the HFSI item.
 - Select Reset Counter.
 - c. Select Reset to confirm.

To edit the life of the HFSI file:

- a. Select the HFSI item.
- b. Select Edit Life.
- c. Enter the new value.
- Select Save to confirm.
- Select Close to exit the routine.
- 7. Select Call Closeout to exit service mode.
- 8. Select Exit and Reboot.

Table 1 HFSI Details

| Name | Parts List Reference | Est Life | Mgmt Type | End of Life Threshold NVM | Default End of Life Threshold | End of Life CSE adjustable |
|--------------------------------|--|-------------|-----------|------------------------------|----------------------------------|----------------------------|
| Tray 1 Feed Roll | PL 80.26 Item 4 (retard roll) PL 80.26 Item 5 (feed and nudger rolls) | 500K Feeds | Counter | 606-518 | 750K | Yes |
| Tray 2 Feed Roll | PL 80.26 Item 4 (retard roll) PL 80.26 Item 5 (feed and nudger rolls) | 500K Feeds | Counter | 606-519 | 750K | Yes |
| Tray 3 Feed Roll | PL 80.32 Item 9 (feed roll) PL 80.32 Item 10 (nudger roll) PL 80.32 Item 15 (retard roll) | 1500K Feeds | Counter | 606-520 | 400K | Yes |
| Tray 4 Feed Roll | PL 80.33 Item 11 (feed roll) PL 80.33 Item 12 (nudger roll) PL 80.33 Item 17 (retard roll) | 1500K Feeds | Counter | 609-319 | 400K | Yes |
| Tray 5 (Bypass Tray) Feed Roll | PL 70.35 Item 14 (feed roll) PL 70.35 Item 16 (retard roll) PL 70.35 Item 6 (retard pad) | 100K Feeds | Counter | 606-521 | 100K | Yes |
| Document Feeder Feed Roller | PL 5.20 Item 6 (feed roll) PL 5.20 Item 7 (nudger roll) PL 5.25 Item 3 (retard roll) | 170K Feeds | Counter | 606-516 | 170K | Yes |

dC136 Service Plan

Purpose

To allow the service plan to be changed from metered to sold. An authorization code is required from the Xerox service centre.

Procedure

- Enter service mode, GP 1.
- Select the Maintenance tab.
- Select dC136 Service Plan.
 - The service plan information is displayed.
- 4. Enter the authorization code to change the service plan.

NOTE: The service plan can be changed from and to any service plan.

- Select Close to exit routine.
- 6. Select Call Closeout.
- 7. Select Exit and Reboot.

dC137 PagePack

Purpose

To enable or disable the PagePack function. When enabled, a customer typically pays a fixed amount per month, or per page, for supplies and/or service plan.

Procedure

- Enter service mode, GP 1.
- 2. Select the Maintenance tab.
- Select dC137 PagePack.

The PagePack screen is displayed.

NOTE: The PagePack function is enabled in all XE installations. Depending on the customer's full service maintenance agreement, the PagePack function needs to be enabled when a USSG/XCL machine is installed in an XE region.

- 4. Select Disabled or Enabled.
- Enter the PagePack passcode, a 4 digit authorization code. The authorization code can be found in the customer's machine installation pack.
- 6. Select Save.
- 7. Select Call Closeout to exit service mode.
- Select Exit and Reboot.

dC140 Analog Monitor

Purpose

To provide tools to start (actuate) and stop (de-actuate) monitoring of specific analog components. The nominal range of the analog value and, when monitoring is active, the current value is displayed. The values are updated at least every second to allow the component state to be monitored.

Refer to Table 1 for the component list.

Procedure

- 1. Enter service mode, GP 1.
- 2. Select the Diagnostics tab.
- 3. Select dC140 Analog Monitor. The dc140 Analog Monitor screen is displayed.
- 4. Scroll the table to display the available analog components.
- 5. Select the required item from the table.
- 6. A popup menu will be displayed, select Start to confirm.
 - The table will display a status against the selected component.
 - While service mode is activated the components are not active so the value will not change.
 - To check the component, either manipulate the component manually or make a note
 of the value, exit Analog Monitor then go to dC330 Component Control. Run the
 component, then return to dc140 Analog Monitor.
 - Multiple components may be selected.
 - To stop monitoring, select the required component, then select Stop.
 - Selecting Stop All stops monitoring of all components.
- 7. Select Close to return to the Diagnostic Routine window.
- 8. Select Call Closeout to exit service mode.
- Select Exit and Reboot.

Table 1 Component List

| ID Code | Component Name | Range | Comments |
|---------|----------------------------|-----------|--|
| 010-601 | Fuser Front Temp Sensor | 0 to 255 | Display value in degrees C or degress F |
| 010-602 | Fuser Mid Temp Sensor | 0 to 255 | Display value in degrees C or degrees F |
| 075-601 | Bypass Tray Width Sensor | 0 to 300 | Display value in mm or inches |
| 091-601 | Humidity Sensor | 0 to 100 | Display value in % RH |
| 091-602 | Ambient Temperature Sensor | 0 to 255 | Display value in degrees C or degress F |
| 092-601 | Toner Concentration Sensor | 0 -to 255 | Display value in % |

dC301 NVM Initialization

General

The purpose of the NVM initialization routine is to reset the values of all applicable NVM parameters to default. There are 3 machine domains and 3 types of initialization.

The 3 machine domains are:

- Copier NVM Initialization.
- Network Controller NVM Initialization
- Fax NVM Initialization.

The 3 types of initialization are:

- **User data** That data which defines the way the customer prefers that the equipment operates (i.e. customer preference, SA/KO settings, configuration).
- System data That data which defines the way the equipment operates in relation to its environment (i.e. machine variables).
- All data: That additional data (on top of System and User data) which may be initialized
 without significantly impacting the machine's operation. (i.e. machine variables, SA/KO
 settings, fault log).

Copier NVM Initialization

Purpose

To reset specific machine variable NVM, or all machine variable NVM (with the exception of protected NVM for which a password is required) to their default values.

NOTE: Initialization does not affect the usage (billing) counters and accounting.

Procedure

- Save the NVM to disk. Refer to NVM Save and Restore. dC361.
- Enter service mode, GP 1.
- Select the Adjustments tab.
- 4. Select dC301 NVM Initialization.
- Select Copier.
- Select the sub-domain. Refer to Table 1 for the functions in each sub domain.
 - Copy Controller.
 - Scanner.
 - Print Engine.
 - Finisher.
- 7. Select the NVM data to reset. Refer to Table 1 for the functions that are reset to default.
 - User.
 - System.
 - Δ1
- 8. Select Initialize. When the pop-up window appears, confirm the request.

A message will be displayed to indicate successful completion.

- 9. Exit dc301 NVM initialization.
- Select Call Closeout to exit service mode.
- 11. Select Exit and Reboot.

NOTE: If a Reset All has been performed then go to the Post Reset All Procedure.

Post Reset All Procedure

If a Reset All has been selected, perform the steps that follow:

- Open the paper trays and allow them to fully lower. Close each tray to determine the amount of paper correctly.
- 2. Perform ADJ 60.3 IIT Registration, Magnification and Calibration.

Network Controller NVM Initialization

Purpose

To return to default the network controller NVM settings that are stored on the hard disk.

Procedure

- 1. Save the NVM to disk, refer to NVM Save and Restore, dC361.
- 2. Enter Service Mode, GP 1.
- 3. Select the Adjustments tab.
- 4. Select dc301 NVM Initialization.
- 5. Select Network Controller.
- Select Initialize, when the pop-up window appears confirm the request. A message will be displayed to indicate successful completion.
- 7. Refer to Table 2 for the functions that are reset.
- Exit dc301 NVM initialization.
- Select Call Closeout to exit service mode.
- 10. Select Exit and Reboot.

Fax NVM Initialization

Purpose

To return to default the fax NVM settings that are stored on the fax card. Refer to Fax NVM Document

NOTE: The Edoc CD must be in the CD drive to use the Fax Document link.

Procedure

- Save the NVM to disk. Refer to NVM Save and Restore, dC361.
- 2. Enter service mode, GP 1.
- Select the Adjustments tab.
- Select dC301 NVM Initialization.
- Select Fax.
- Select the NVM data to reset. Refer to Table 3 for the functions that are reset to default.
 - User.
 - System.
 - All.
- Select Initialize. When the pop-up window appears, confirm the request.
- 8. A message will be displayed to indicate successful completion.
- Exit dc301 NVM Initialization.
- 10. Select Call Closeout to exit service mode.
- 11. Select Exit and Reboot.

Table 1 Copier NVM

| Sub-Domain | NVM Initialization Type | User Data NVM | System Data NVM | All Data NVM |
|-----------------|---|------------------|--------------------|-----------------|
| Copy Controller | All | N | N | N |
| | Billing Counter | N | N | N |
| | System Usage Counter | | | Υ |
| | Fault Counter (1) | | | Υ |
| | Diagnostic Counter (1) | | | Υ |
| | SA / KO Setting | Υ | | Υ |
| | Fault Log | | | Υ |
| | Configuration | | | Υ |
| | Diagnostics | | | Υ |
| | Debug | | | Υ |
| | Machine Variable | | Υ | Υ |
| | Machine Variable Xero | | Υ | Υ |
| | Machine Variable Registration | | Υ | Υ |
| | Machine Variable Paper Path | | Υ | Υ |
| | Machine Variable SPDH | | Υ | Υ |
| | Machine Variable Platen | | Υ | Υ |
| | Auditron | Υ | | Υ |
| | ESS | N | N | N |
| | Crash Recovery Type | | | Υ |
| | Completed Job Log | | | Υ |
| | Controlled Access Machine Speed, Market Region | N | N | N |
| | JBA Database | Υ | | Υ |
| | JBA Configuration | Υ | | Υ |
| | Auditron Configuration | Υ | | Υ |
| | Xerox Standard Accounting | N | N | N |
| | HFSI Counter | N | N | N |
| Scanner | NVM Machine Variable | | Υ | Υ |
| | SA/KO Setting | Υ | | Υ |
| | Configuration | | | Υ |
| Printer | NVM Machine Variable | | Υ | Υ |
| | SA/KO Setting | Y | | Υ |
| | Configuration | | | Υ |
| Finisher | NVM Machine Variable | | Υ | Υ |
| | SA/KO Setting | Y | | Υ |
| | Configuration | | | Υ |

Table 2 Network Controller NVM

| NVM Initialization Type | Notes |
|--|---|
| Custom Certificates | Includes netscape, trusted, racoon, OSCP and root certificates. |
| NVRAM Configuration | Reset to default. |
| Network Device Configurations | |
| NC Data Store | Generated at runtime. |
| Runtime Generated Configuration Files | |
| Scan Templates | Used by Workflow Scanning. |
| Completed Job Logs | To prevent a list of old processed jobs displaying on the UI. |
| NC Debug Logs | |
| Print Spool Files | To prevent unwanted active jobs in the queue. |
| JBA Accounting Files | |
| Stored Images | Retaining these may breach confidentiality. |
| Temporary Jobs From The Scan Directory | Retaining these may breach confidentiality. |
| Cloning Data | Retaining these may breach confidentiality. |
| Downloadable Email Address Books | Retaining these may breach confidentiality. |
| Set FTP and TELNET access to OFF | Security measure. |
| Weblet and EIP Applications | These are deleted. |

Table 3 Fax NVM

| NVM Initialization Type | User Data NVM | System Data NVM | All Data NVM |
|-------------------------|------------------|--------------------|--------------|
| Controlled Access (2) | | | Υ |
| Completed Job Log | Υ | | (Y) |
| Auditron | Υ | | (Y) |
| Configuration | Υ | Υ | (Y) |
| SA/KO Setting | Υ | | (Y) |

(2) The Fax functionality for the NVM All Data Initialization will result in all of the NVM data being deleted, which is why the other categories are shown in brackets.

dC304 LED Print Head Validation

Purpose

To check the connectivity and data transfer integrity between the software on the SBC PWB and the LED Print Head.

Procedure

- Enter service mode, GP 1.
- 2. Select the Diagnostics tab.
- Select dC304 LED Print Head Validation.
- Select Start Test.

At test start, all EEPROM data is retrieved from the LED print head. The checksum of the retrieved data is calculated. The calculated checksum is compared with the retrieved checksum. The LED print head average power level and serial number are displayed. If the retrieved and calculated checksums match, the test indicates 'Pass'.

- 5. Select Close to exit the routine.
- 6. Select Call Closeout to exit service mode.
- 7. Select Exit and Reboot.

dC312 Network Echo Test

Purpose

To check network connectivity.

Procedure

- 1. Enter service mode, GP 1.
- Select the Diagnostics tab.
- Select dC312 Network Echo Test.
- 4. Select the required protocol from TCP/IP, AppleTalk or Novel or IPX.
- 5. Select Start Test.

The status region at the top of the user interface indicates that the test is in progress. The status region indicates the result of the test before returning to the previous display.

- Select Close to exit the routine.
- 7. Select Call Closeout to exit service mode.
- Select Exit and Reboot.

dC330 Component Control

Purpose

To show the status of input components e.g. sensors, and to run or energize output components e.g. motors, solenoids.

Description

Output and input component codes are entered into the Component Control Table on the UI, and then checked individually or in permitted groups. The codes in the tables are grouped in function chain order. Refer to GP 2 Fault Codes and History Files.

NOTE: To check the operation of the fuser temperature, humidity, ambient temperature, bypass width, toner concentration or developer temperature sensors, refer to dC140 Analog Monitor.

Go to the appropriate procedure:

- Input Components.
- Output Components.

Input Components

When the appropriate code is entered, the status of the component is shown on the UI.

NOTE: The logic level shown on the circuit diagrams with the signal name is the actual signal as measured with a service meter. This is not necessarily the same as the logic state shown on the UI, especially where the output is inverted. When testing components using these control codes, look for a change in state, not for a high or low.

The displayed status of the input component can be changed by causing the component status to change, e.g. operating a sensor with a sheet of paper.

Go to the appropriate table:

- Table 1 Input codes 001.
- Table 2 Input codes 003.
- Table 3 Input Codes 005.
- Table 4 Input Codes 010.
- Table 5 Input Codes 012.
- Table 6 Input Codes 061 to 602.
- Table 7 Input Codes 071 to 076.
- Table 8 Input Codes 081 to 083.
- Table 9 Input Codes 091.

Output Components

When the appropriate code is entered, the component runs or energizes for a set time. The default timeout for most components is set at 90 seconds, but can be as short as 5 seconds. Some components require that other components are run or energized at the same time. It is possible to enter and run or energize up to 6 component control codes (not fax), but only in permitted groups. If illegal combinations of codes are entered, the components do not run or energize.

Go to the appropriate table:

Table 10 Output Codes 005.

- Table 11 Output Codes 010.
- Table 12 Output Codes 012.
- Table 13 Output Codes 020.
- Table 14 Output Codes 062 to 066.
- Table 15 Output Codes 071 to 076.
- Table 16 Output Codes 080 to 083.
- Table 17 Output Codes 093.

Procedure

- 1. Enter service mode. GP 1.
- 2. Select the Diagnostics tab.
- 3. Select dC330 Component Control.



CAUTION

Check the component control tables for components that will damage the machine if run together.

4. Select the required codes as follows:

If the component control code is not known:

- Select a chain from the drop down list.
- b. Select the required component and select Add.

If the required component control code is known:

- a. Select the Chain field and enter the 3 digit chain number using the numeric keypad.
- b. Select the Link field and enter the required link number using the numeric keypad.
- c. Select Add.
- Once the required component control codes are in the lower list, select the required code and choose options from the menu as required.
- 6. Select Close to exit dc330 Component Control.
- 7. Select Call Closeout to exit service mode.
- 8. Select Exit and Reboot.

Table 1 Input codes 001

| Code | Displayed Name | Description | General |
|---------|---------------------------|--|-------------------------------------|
| 001-300 | Front Door Inter- lock | Front door interlock switch (S01-300). | High = door closed, low = door open |
| 001-305 | Left Door Interlock | Left hand door interlock (S01-305). | High = door closed, low = door open |

Table 2 Input codes 003

| Code | Displayed Name | Description | General |
|---------|----------------|---|--------------------|
| 003-047 | | Indicates the state of 24V input monitor. | High = 24V present |

Table 3 Input codes 005

| Code | Displayed Name | Description | General |
|---------|-----------------------------|--|---|
| 005-305 | DH top cover inter- lock | SPDH top cover interlock switch (S05-305). | High = cover closed, low = cover open |
| 005-307 | Lift home position sensor | SPDH lift home position sensor (Q05-307). | High = document present, low = no document |
| 005-308 | DH last sheet out sensor | SPDH last sheet out sensor (Q05-308). | High = document present, low = no document |
| 005-309 | DH doc present sensor | SPDH document present sensor (Q05-309). | High = document present, low = no document |
| 005-310 | DH stack height sensor | SPDH stack height sensor (Q05-310). | High = document present, low = no document |
| 005-315 | DH length sensor 1 | SPDH length sensor 1 (Q05-315). | High = document present, low = no document |
| 005-320 | DH length sensor 2 | SPDH length sensor 2 (Q05-320). | High = document present, low = no document |
| 005-325 | DH width sensor 1 | SPDH width sensor 1 (Q05-325). | High = document present, low = no document |
| 005-326 | DH width sensor 2 | SPDH width sensor 2 (Q05-326). | High = document present, low = no document |
| 005-327 | DH width sensor 3 | SPDH width sensor 3 (Q05-327). | High = document present, low = no document |
| 005-330 | DH feed sensor | SPDH feed sensor (Q05-330). | High = document present, low = no document |
| 005-335 | DH takeaway sen- sor | SPDH takeaway sensor (Q05-335). | High = document present, low = no document |
| 005-340 | DH reg sensor | SPDH registration sensor (Q05-340). | High = document present, low = no document |
| 005-343 | DH side 2 reg sensor | SPDH side 2 registration sensor (Q05-343). | High = document present, low = no document |

Table 3 Input codes 005

| Code | Displayed Name | Description | General |
|---------|-----------------------------|--|----------------------------------|
| 005-360 | DH Cal home position sensor | SPDH calibration home position sensor (Q05-360). Detects when the calibration strip of the side 2 scan assembly is in the home position. | High = Calibration strip home |
| 005-375 | DH LED fan lock alarm | SPDH LED fan lock alarm. | High = Alarm present |
| 005-385 | DH motor fan lock alarm | SPDH motor fan lock alarm. | High = Alarm present |

Table 4 Input codes 010

| Code | Displayed Name | Description | General |
|---------|--|--|--------------------------------------|
| 010-041 | Horizontal Trans- port Entry Sensor | Horizontal transport entry sensor (Q10-041). | High/Low |
| 010-042 | Horizontal Trans- port Interlock | Horizontal transport interlock sensor (Q10-042). | High/Low |
| 010-044 | IOTC PME | IOTC PME | High/Low |
| 010-120 | Post fuser sensor | IOT exit sensor (Q10-120), detects when paper exits the IOT. | High = paper present, low = no paper |
| 010-300 | Offset Sensor | Offset sensor (Q10-300). | High/Low |

Table 5 Input codes 012

| Code | Displayed Name | Description | General |
|---------|---------------------------------|--|--------------------------------------|
| 012-077 | Entry sensor | 2K LCSS and LVF BM entry sensor (Q12-077). | On = Made |
| 012-078 | Punch sensor 1 | 2K LCSS and LVF BM punch position sensor (Q12-078). | On = Made |
| 012-089 | BM entry sensor | LVF BM entry sensor (Q12-089) detects paper entry to the booklet maker. | High = paper present, low = no paper |
| 012-096 | Ejector motor encoder sensor | 2K LCSS and LVF BM ejector module motor encoder sensor (Q12-096) detects the timing for ejector module motor. | High = made, low = not detected |
| 012-106 | Compiler exit sen- sor | 2K LCSS and LVF BM compiler exit sensor (Q12-106). | On/Off |
| 012-107 | Top tray exit sensor | 2K LCSS and LVF BM top tray exit sensor (Q12-107). | On/Off |
| 012-133 | Low staple sensor | 2K LCSS and LVF BM low staple sensor (Q12-133). | On/Off |
| 012-134 | Self priming sensor | 2K LCSS and LVF BM self priming sensor (Q12-134). | On/Off |
| 012-135 | Staple home sen- sor | 2K LCSS and LVF BM staple home sensor (Q12-135). | On/Off |

Table 5 Input codes 012

| Code | Displayed Name | Description | General |
|---------|-------------------------------|--|--|
| 012-163 | Bin 1 Motor Encoder Sensor | 2K LCSS and LVF BM bin 1 motor encoder sensor (Q12-162) detects the timing for stacker unit motor. | High = made, low = not detected |
| 012-168 | Stapler index sensor | 2K LCSS and LVF BM stapler unit is in index position (Q12-168). | On = made |
| 012-170 | BM paper present sensor | LVF BM paper present sensor (Q12-170). | On = made |
| 012-177 | Docking interlock | 2K LCSS and LVF BM docking interlock switch (S12-176). | High = docked, low = un- docked |
| 012-180 | Front tamper home sensor | 2K LCSS and LVF BM front tamper home sensor (Q12-180) detects if front tamper is home. | High = home, low = not home |
| 012-181 | Rear tamper home sensor | 2K LCSS and LVF BM rear tamper home sensor (Q12-181), detects if rear tamper is home. | High = home, low = not home |
| 012-182 | Front tamper away sensor | 2K LCSS and LVF BM front tamper away sensor (Q12-182), detects if front tamper is away. | High = home, low = not home |
| 012-183 | Rear tamper away sensor | 2K LCSS and LVF BM rear tamper away sensor (Q12-183), detects if rear tamper is away. | High = home, low = not home |
| 012-184 | Ejector home sensor | 2K LCSS and LVF BM ejector home sensor (Q12-184) detects the home position of the ejector assembly. | High = home, low = not home |
| 012-185 | Ejector out sensor | 2K LCSS and LVF BM Ejector out sensor (Q12-185) detects the out position of the ejector assembly. | High = out, low= not out |
| 012-186 | Paddle roll home sensor | 2K LCSS and LVF BM paddle roll position sensor (Q12-186) detects the home position of the paddle roll. | High = home, low = not home |
| 012-187 | Bin 1 90% full sen- sor | 2K LCSS and LVF BM bin 1 90% full sensor (Q12-187) detects when bin 1 is 90% or more full. | High = 90% or more full, low = less than 90% full |
| 012-188 | Bin1 upper level sensor | 2K LCSS and LVF BM bin 1 upper level sensor (Q12-188) detects the top of the paper stack in bin 1. | High = stack sensed, low = stack not sensed |
| 012-190 | Bin1 upper limit switch | 2K LCSS and LVF BM bin 1 upper limit switch (S12-190) detects the upper limit of bin 1 movement. | High = bin detected, low = bin not detected |

Table 5 Input codes 012

| Code | Displayed Name | Description | General |
|---------|-------------------------------|---|---|
| 012-191 | Bin1 lower limit switch | 2K LCSS and LVF BM bin 1 upper limit switch (S12-191) detects the lower limit of bin 1 movement. | High = bin detected, low = bin not detected |
| 012-193 | Chad bin level sensor | 2K LCSS and LVF BM chad bin full sensor (Q12-193) detects when the level of the chad reaches a pre-set value. | High = bin full, low = bin not full |
| 012-194 | Punch head home sensor | 2K LCSS and LVF BM punch head home sensor (Q12-194) detects the home position of the punch head. | High = punch home, low = punch not home |
| | Punch head present sensor | 2K LCSS and LVF BM punch head present sensor (Q12-195) detects if a hole punch is installed. | High = punch installed, low = punch not installed |
| 012-196 | SH1 paper sensor | 2K LCSS and LVF BM staple head 1 home sensor (Q12-196) detects when the staple head is fully open (home position). | High = home, low = not home |
| 012-197 | Top cover interlock | 2K LCSS and LVF BM top cover interlock switch (S12-197) detects if the finisher top cover is open. | High = closed |
| 012-204 | BM guide home sensor | LVF BM guide home sensor (Q12-204) detects when the backstop is in the home position. | High = home, low = not home |
| 012-205 | BM tamper 1 home sensor | LVF BM tamper 1 home sensor (Q12-205) detects when the BM tampers are in the home position. | High = home, low = not home |
| | BM Bin 2 90% full sensor | LVF BM bin 2 90% full sensor (Q12-206) detects when bin 2 is 90% or more full. | High = 90% or more full, low = less than 90% full |
| 012-207 | Flapper home sensor | LVF BM flapper home sensor (Q12-207). | High = home |
| | BM exit sensor | LVF BM exit sensor (Q12-213) detects booklets exiting the booklet maker. | High = detected, low = not detected |
| | BM crease blade home | LVF BM crease blade home sensor (Q12-214) detects when the crease blade is fully retracted. | High = home, low = not home |
| 012-215 | BM crease blade motor encoder | LVF BM crease blade motor encoder sensor (Q12-215) generates motor speed pulses. | High = bar in encoder wheel, low = gap in encoder wheel |

Table 5 Input codes 012

| Code | Displayed Name | Description | General |
|---------|---|---|---|
| 012-216 | BM crease roll motor encoder | LVF BM crease roll motor encoder sensor (Q12-216) generates motor speed pulses. | High = bar in encoder wheel, low = gap in encoder wheel |
| 012-303 | | 2K LCSS and LVF BM front door interlock (Q12-303) detects if the finisher front door is open. | High = closed, low = open |
| 012-317 | Stapler cartridge sensor | 2K LCSS and LVF BM stapler cartridge sensor (Q12-317). | On = made, Off = clear |
| 012-318 | Stapler jaw home sensor | 2K LCSS and LVF BM stapler jaw home sensor (Q12-318). | On = made, Off = clear |
| 012-363 | SH1 cartridge sen- sor | 2K LCSS and LVF BM SH1 cartridge sensor (Q12-363). | On = made, Off = clear |
| 012-411 | BM Stapler Jaw Home Sensor | Booklet maker staple jaw home sensor (Q12-411). | High = home, low = not home |
| 012-412 | BM Front Staple Cartridge Low Sen- sor | BM Front Staple Cartridge Low Sensor (Q12-412). | High = almost empty, low = plentiful staples |
| 012-414 | BM Rear Staple Cartridge Low Sen- sor | BM Rear Staple Cartridge Low Sensor (Q12-414). | High = almost empty, low = plentiful staples |
| 012-438 | BM staple unit home sensor | LVF BM staple unit home sensor (Q12-438). | High = home, low = not home |
| 012-439 | BM staple unit away sensor | LVF BM staple unit away sensor (Q12-439). | High = at away position, low = not at away position |
| 012-440 | BM back stop mid home sensor | LVF BM end stop mid home sensor (Q12-440). | High = at mid home position, low = not at mid home position |
| 012-442 | BM front staple car- tridge primed sen- sor | LVF BM staple 1 prime sensor (Q12-442). | High = ready, low = not ready |
| 012-443 | BM rear staple car- tridge primed sen- sor | LVF BM staple 2 prime sensor (Q12-443). | High = ready, low = not ready |
| 012-450 | BM Front Staple Cartridge Present Sensor | BM Front Staple Cartridge Present Sensor (Q12-450) | High = present, low = not present |
| 012-451 | BM Rear Staple Cartridge Present Sensor | BM Rear Staple Cartridge Present Sensor (Q12-451) | High = present, low = not present |

Table 6 Input codes 061 to 062

| Code | Displayed Name | Description | General |
|---------|--------------------------|------------------------------------|---------------------|
| 062-019 | DH Platen Down Sensor | SPDH platen down sensor (Q62-019). | High = SPDH lowered |
| 062-020 | DH 24 Volts | SPDH 24V | High = 24V present |

Table 6 Input codes 061 to 062

| | Table 6 input source 501 to 502 | | | |
|---------|---------------------------------|-------------------------------------|--------------------------|--|
| Code | Displayed Name | Description | General | |
| 062-034 | Platen Scan Cool- | Detects when the scanner cool- | High = Fan off | |
| | ing Fan Input | ing is running. | | |
| 062-100 | Carriage Home | Carriage home sensor (Q62- | High = carriage home | |
| | Sensor | 100). This must be used in con- | | |
| | | junction with 62-023 Carriage | | |
| | | Home Sensor Test. Add both | | |
| | | components, start the sensor | | |
| | | test, then the carriage home sen- | | |
| | | sor test. The sensor will cycle its | | |
| | | state as the carriage moves to | | |
| | | and from home. | | |
| 062-251 | Doc Size Sensor 1 | Document size sensor 1 (Q62- | High = document not | |
| | | 251). | sensed, low = document | |
| | | | sensed | |
| 062-253 | Doc Size Sensor 2 | Document size sensor 2 (Q62- | High = document not | |
| | | 253). | sensed, low = document | |
| | | | sensed | |
| 062-301 | DH Angle Sensor | Input module angle sensor (Q62- | High = input module low- | |
| | | 301) detects the input module at | ered, low input module | |
| | | 30% angle for size sensing. | raised | |
| 062-322 | Platen Hotline | Platen hotline | High/Low | |

Table 7 Input codes 071 to 076

| Code | Displayed Name | Description | General |
|---------|---------------------------|--|---|
| 071-320 | T1 Empty Sensor | Tray 1 empty sensor (Q71-320). | High = tray empty, low = paper in tray |
| 071-330 | T1 stack height sensor | Tray 1 stack height sensor (Q71-330). | High = top of stack sensed, low = top of stack not sensed |
| 072-320 | T2 Empty Sensor | Tray 2 empty sensor (Q72-320). | High = paper in tray, low = tray empty |
| 072-330 | T2 stack height sensor | Tray 2 stack height sensor (Q72-330). | High = top of stack sensed, low = top of stack not sensed |
| 073-300 | T3 Home Sensor | Tray 3 home sensor (Q73-300). | High = tray home. low = tray not home |
| 073-320 | T3 Empty Sensor | Tray 3 empty sensor (Q73-320). | High = tray empty, low = paper in tray |
| 073-330 | T3 Stack Height Sensor | Tray 3 stack height sensor (Q73-330). | High = top of stack sensed, low = top of stack not sensed |
| 073-340 | T3 Level Encoder | Detects tray 3 paper level encoder status (Q73-340). | High = top of stack sensed, low = top of stack not sensed |

Table 7 Input codes 071 to 076

| Code | Displayed Name | Description | General |
|---------|---------------------------------|--|---|
| 074-300 | T4 Home Sensor | Tray 4 home sensor (Q74-300). | High = tray home. low = tray not home |
| 074-320 | T4 Empty Sensor | Tray 4 empty sensor (Q74-320). | High = paper in tray, low = tray empty |
| 074-330 | T4 Stack Height Sensor | Tray 4 stack height sensor (Q74-330). | High = top of stack sensed, low = top of stack not sensed |
| 074-340 | T4 Level Encoder | Detects tray 4 paper level encoder status (Q74-340). | High = top of stack sensed, low = top of stack not sensed |
| 075-040 | Bypass Tray Ele- vate Sensor | Bypass tray elevate sensor (Q75-040). | High = tray elevated |
| 075-320 | Bypass Empty Sensor | Bypass empty sensor (Q75-320). | High = tray empty, low = paper in tray |

Table 8 Input codes 081 to 083

| Code | Displayed Name | Description | General |
|---------|---------------------|--|--------------------------------------|
| 081-001 | Tray 1 TAR Sensor | Tray 1 TAR sensor (Q81-001). | High/Low |
| 081-103 | T3 Feed Sensor | Detects when lead edge of paper is at tray 3 feed sensor, (Q81-103). | High = paper present, low = no paper |
| 081-104 | T4 Feed Sensor | Detects when lead edge of paper is at tray 4 feed sensor, (Q81-104). | High = paper present, low = no paper |
| 081-108 | HCF Exit Sensor | Detects a sheet being fed from the HCF. | High = paper present, Low = no paper |
| 081-150 | Tray 4 Exit Sensor | Detects a sheet being fed through the tray 4 horizontal transport. (tray 4 exit sensor Q81-150). | High/Low |
| 082-001 | Tray 2 TAR Sensor | Tray 2 TAR sensor (Q82-001). | High/Low |
| 082-150 | Registration Sensor | Detects when paper is at the registration sensor (Q82-150). | High = paper present, low = no paper |
| 083-160 | Duplex Sensor | Detects when paper is at the duplex sensor (Q83-160). | High = paper present, low = no paper |

Table 9 Input codes 091

| Code | Displayed Name | Description | General |
|---------|------------------------|---|----------------------|
| 091-077 | Bias Charge Roll DC | Switches on the bias charge roll voltage. | High = on, low = off |
| 091-078 | Developer Bias DC | Switches on the developer bias voltage. | High = on, low = off |

Output Codes

Table 10 Output codes 005

| Code | Displayed Name | Description | General | |
|---------|--------------------------------------|---|----------------------------|--|
| 005-020 | DH feed motor | Runs the SPDH feed motor (MOT05-020) clockwise. | On/off. 90 seconds timeout | |
| 005-025 | DH feed clutch | Energizes the SPDH feed clutch (CL05-025). | On/off. 30 seconds timeout | |
| 005-030 | DH read motor | Runs the SPDH read motor (MOT05-030) clockwise. | On/off. 90 seconds timeout | |
| 005-370 | DH LED fan motor | Runs the SPDH LED fan (MOT05-370). | On/off | |
| 005-380 | DH motor cooling fan | Runs the SPDH motor fan motor (MOT05-380). | On/off | |
| 005-390 | DH tray elevate motor | SPDH tray elevator motor (MOT05-390). | On/off | |
| 005-400 | DH Reflection sen- sor adjustment | SPDH Reflection sensor adjust- ment. | On/off | |
| 005-420 | Feed motor (CCW) | Runs the SPDH feed motor (MOT05-020) counter clockwise. | On/off | |
| 005-425 | DH take away clutch | Energizes the SPDH takeaway clutch (CL05-425). | On/off | |
| 005-430 | Read motor (CCW) | Runs the SPDH read motor (MOT05-030) counter clockwise. | On/off | |

Table 11 Output codes 010

| Code | Displayed Name | Description | General |
|---------|---|--|----------------------------|
| 010-020 | Fuser Drive Motor | Runs the fuser/exit motor (MOT10-020). | On/off. 90 seconds timeout |
| 010-030 | Inverter Motor For- ward at process speed | Runs the inverter motor (MOT10-030) forward at process speed. | On/off. 90 seconds timeout |
| 010-035 | Inverter Motor Reverse at pro- cess speed | Runs the inverter motor (MOT10-030) in reverse at process speed. | On/off. 90 seconds timeout |
| 010-036 | Inverter Motor Duplex Hi Speed forward | Runs the inverter motor (MOT10-030) forward at high speed. | On/off. 90 seconds timeout |
| 010-037 | Inverter Motor Duplex Hi Speed reverse | Runs the inverter motor (MOT10-030) in reverse at high speed. | On/off. 90 seconds timeout |
| 010-040 | Horizontal Trans- port Motor | Runs the horizontal transport motor (MOT10-040). | On/off |

Table 11 Output codes 010

| Code | Displayed Name | Description | General |
|---------|-----------------------------|---|---------------------------|
| 010-045 | Inverter Gate Sole- noid | Energizes the invert path sole- noid (SOL10-045). When de- energized sheets are fed to the inverter. | On/off. 5 seconds timeout |
| 010-500 | Offset Motor - Forward | Runs the offset motor (MOT10-500) forward. | On/off |
| 010-501 | Offset Motor - Reverse | Runs the offset motor (MOT10-500) in reverse. | On/off |

Table 12 Output codes 012

| Code | Displayed Name | Description | General |
|---------|-----------------------------|--|-----------------------------------|
| 012-045 | SU1 Motor Back- ward | Stapling Unit 1 increment backward. | On/off. 110 seconds time- out |
| 012-059 | Elevator Motor Up | Runs the 2K LCSS and LVF BM bin 1 elevate motor (MOT12-241) by increments up. | On/off. 500 mseconds time- out |
| 012-060 | Elevator Motor Down | Runs the 2K LCSS and LVF BM bin 1 elevate motor (MOT12-241) by increments down. | On/off. 500 mseconds time- out |
| 012-223 | Transport Motor 1 | Runs the 2K LCSS and LVF BM transport Motor 1 (MOT12-223). | On/off. 90 seconds timeout |
| 012-224 | Transport Motor 2 | Runs the 2K LCSS and LVF BM transport motor 2 (MOT12-224). | On/off. 90 seconds timeout |
| 012-225 | Exit Diverter Sole- noid | Energises the 2K LCSS and LVF BM exit diverter gate solenoid (SOL12-225). | On/off. 5 seconds timeout |
| 012-226 | Front Tamper Motor Home | Runs the 2K LCSS and LVF BM front tamper motor (MOT12-227) to the home position. | On/off. 5 seconds timeout |
| 012-227 | Rear Tamper Motor Home | Runs the 2K LCSS and LVF BM rear tamper motor (MOT12-228) to home position. | On/off. 5 seconds timeout |
| 012-228 | Front Tamper Motor Move | Runs the 2K LCSS and LVF BM front tamper motor (MOT11-003) move inbound. | On/off. 5 seconds timeout |
| 012-229 | Rear Tamper Motor Move | Runs the 2K LCSS and LVF BM rear tamper motor (MOT11-004) move inbound. | On/off. 5 seconds timeout |
| 012-230 | Tampers to A4LEF | Moves the 2K LCSS and LVF BM tampers to A4LEF position. | On/off. 5 seconds timeout |
| 012-231 | Tampers to 8.5x11LEF | Moves the 2K LCSS and LVF BM tampers to 8.5"x11" LEF position. | On/off. 5 seconds timeout |
| 012-232 | Tamper Motor Cycle | Cycles the 2K LCSS and LVF BM tampers in and out until timeout or stop. | On/off. 90 seconds timeout |

Table 12 Output codes 012

| Code | Displayed Name | Description | General |
|---------|------------------------------|---|-----------------------------|
| 012-234 | Ejector Motor Home | Runs the 2K LCSS and LVF BM ejector motor (MOT12-234) to the home position. | On/off. 5 seconds timeout |
| 012-235 | , | Runs the 2K LCSS and LVF BM ejector motor (MOT12-234) to the out position. | On/off. 5 seconds timeout |
| 012-236 | Ejector Motor Cycle | Runs the 2K LCSS and LVF BM ejector motor (MOT12-234) cycle routine until timeout or stop. CAUTION | On/off. 90 seconds timeout |
| | | Do not run the following codes together: 012-045, 012-233, 012-236, 012-242, 012-244, 012-249, 012-250. Running these codes at the same time can cause damage to the machine. | |
| 012-237 | Paddle Roll Motor Home | Runs the 2K LCSS and LVF BM paddle roll motor (MOT12-237) to the home position. | On/off. 15 seconds timeout |
| 012-238 | Paddle Roll Motor Run | Runs the 2K LCSS and LVF BM paddle roll motor (MOT12-237) until timeout or stop. | On/off. 15 seconds timeout |
| 012-241 | Bin 1 Elevator Motor Home | Runs the 2K LCSS and LVF BM bin 1 elevate motor (MOT12-241) to the home position. | On/off. 15 seconds timeout |
| 012-242 | Bin1 Elevator Motor Cycle | Runs the 2K LCSS and LVF BM bin 1 elevate motor (MOT12-242) to cycle bins up/down until timeout or stop. CAUTION Do not run the following codes | On/off. 90 seconds timeout. |
| | | together: 012-045, 012-233, 012- 236, 012-242, 012-244, 012-249, 012-250. Running these codes at the same time can cause dam- age to the machine. | |
| 012-243 | Punch head move home | Runs the 2K LCSS and LVF BM hole punch motor (MOT12-243) to the home position. | On/off. 15 seconds timeout |

Table 12 Output codes 012

| Code | Displayed Name | Description | General |
|---------|----------------------------|---|----------------------------|
| 012-244 | Punch Head Run | Runs the 2K LCSS and LVF BM hole punch motor (MOT12-244) continuously. | On/off. 15 seconds timeout |
| | | ! CAUTION | |
| | | Do not run the following codes together: 012-045, 012-233, 012-236, 012-242, 12-244, 012-249, 012-250. Running these codes at the same time can cause damage to the machine. | |
| 012-247 | Staple Head 1 Motor | Runs the 2K LCSS and LVF BM staple head 1 motor (MOT12-247). | On/off. 15 seconds timeout |
| | | CAUTION | |
| | | Do not run code 012-247 without 2 sheets of paper in the stapler | |
| | | jaws. Running this code without | |
| | | the paper in position can cause damage to the machine. | |
| 012-248 | SH 1 Motor Reverse Home | Runs the 2K LCSS and LVF BM staple head 1 motor (MOT12-248) in reverse to the home position. | On/off. 15 seconds timeout |
| 012-249 | SU1 Motor Forward | Runs the 2K LCSS and LVF BM stapling unit 1 motor (MOT12-249) increment forward. | On/off. 15 seconds timeout |
| | | | |
| | | Do not run the following codes together: 012-045, 012-233, 012-236, 012-242, 012-244, 012-249, 012-250. Running these codes at the same time can cause damage to the machine. | |

Table 12 Output codes 012

| Code | Displayed Name | Description | General |
|---------|----------------------------------|--|----------------------------|
| 012-250 | SU1 Motor Cycle | Runs the 2K LCSS and HVF sta- pling unit 1 motor (MOT12-250) cycle routine. | On/off. 90 seconds timeout |
| | | ! CAUTION | |
| | | Do not run the following codes together: 012-045, 012-233, 012- | |
| | | 236, 012-242, 012-244, 012-249, 012-250. Running these codes at the same time can cause dam- | |
| | | age to the machine. | |
| 012-252 | BM Crease Blade Motor | Runs the LVF BM crease blade motor (MOT12-252) cycle routine. | On/off. 90 seconds timeout |
| 012-253 | Crease Roll Motor | Runs the LVF BM crease roll motor (MOT12-253). | On/off. 6 seconds timeout |
| 012-255 | BM Backstop Motor | Runs the LVF BM backstop motor (MOT12-255) to receive, staple, then crease positions. | On/off. 90 seconds timeout |
| 012-256 | BM Tamper 1 Motor | Runs the LVF BM tamper motor (MOT12-256). | On/off. 90 seconds timeout |
| 012-258 | BM Diverter Sole- noid | Energizes the LVF BM diverter gate solenoid (SOL12-258). | On/off. 5 seconds timeout |
| 012-271 | BM Flapper Motor | Runs the LVF BM flapper motor (MOT12-271). | On/off. 90 seconds timeout |
| 012-435 | BM Stapler Unit Move to Home. | Runs the BM staple unit move motor (MOT12-435) to drive the stapler unit to home. | On/off. 5 seconds timeout |
| | BM Stapler Unit Move to Away. | Runs the BM staple unit move motor (MOT12-435) to drive the stapler unit away from home. | On/off. 5 seconds timeout |
| 012-437 | BM Staple Clinch Motor | BM Saddle Stitch Run 1 Cycle (Clinching). | On/off. 15 seconds timeout |

Table 13 Output codes 020

| Code | Displayed Name | Description | General |
|---------|-------------------------|-------------------------------------|---------|
| 020-010 | Sngl Tone 0Hz Ln1 | Emits single tone 0Hz on line 1. | On/off |
| 020-011 | Sngl Tone 400Hz Ln1 | Emits single tone 400Hz on line 1. | On/off |
| 020-012 | Sngl Tone 1100Hz Ln1 | Emits single tone 1100Hz on line 1. | On/off |
| 020-013 | Sngl Tone 1300Hz Ln1 | Emits single tone 1300Hz on line 1. | On/off |

Table 13 Output codes 020

| Code | Displayed Name | Description | General |
|---------|---------------------------|---|---------|
| 020-014 | Sngl Tone 1650Hz Ln1 | Emits single tone 1650Hz on line 1. | On/off |
| | Sngl Tone 1850Hz Ln1 | Emits single tone 1850Hz on line 1. | On/off |
| | Sngl Tone 2100Hz Ln1 | Emits single tone 2100Hz on line 1. | On/off |
| | ANSAM Ln1 | Switches on the line 1 ANSAM tone. | On/off |
| 020-018 | | Switches line 1 to off hook quiet mode. | On/off |
| | DTMF # Line1 | Emits DTMF # on line 1. | On/off |
| 020-021 | DTMF * Line1 | Emits DTMF * on line 1. | On/off |
| 020-022 | DTMF 0 Line1 | Emits DTMF 0 on line 1. | On/off |
| | DTMF 1 Line1 | Emits DTMF 1on line 1. | On/off |
| 020-024 | DTMF 2 Line1 | Emits DTMF 2 on line 1. | On/off |
| 020-025 | DTMF 3 Line1 | Emits DTMF 3 on line 1. | On/off |
| 020-026 | DTMF 4 Line1 | Emits DTMF 4 on line 1. | On/off |
| 020-027 | DTMF 5 Line1 | Emits DTMF 5 on line 1. | On/off |
| 020-028 | DTMF 6 Line1 | Emits DTMF 6 on line 1. | On/off |
| 020-029 | DTMF 7 Line1 | Emits DTMF 7 on line 1. | On/off |
| 020-030 | DTMF 8 Line1 | Emits DTMF 8 on line 1. | On/off |
| 020-031 | DTMF 9 Line1 | Emits DTMF 9 on line 1. | On/off |
| 020-032 | DTMF A Line1 | Emits DTMF A on line 1. | On/off |
| 020-033 | DTMF B Line1 | Emits DTMF B on line 1. | On/off |
| 020-034 | DTMF C Line1 | Emits DTMF C on line 1. | On/off |
| 020-035 | DTMF D Line1 | Emits DTMF D on line 1. | On/off |
| 020-040 | V.21 300 bps Line1 | Emits V.21 300 bps on line 1. | On/off |
| 020-041 | V.27ter 2400 bps Line1 | Emits V.27ter 2400 bps on line 1. | On/off |
| | V.27ter 4800 bps Line1 | Emits V.27ter 4800 bps on line 1. | On/off |
| | V.29 7200 bps Line1 | Emits V.29 7200 bps on line 1. | On/off |
| | V.29 9600 bps Line1 | Emits V.29 9600 bps on line 1. | On/off |
| | V.17 7200 bps Line1 | Emits V.17 7200 bps on line 1. | On/off |
| 020-046 | V.17 9600 bps Line1 | Emits V.17 9600 bps on line 1. | On/off |
| | V.17 12000 bps Line1 | Emits V.17 12000 bps on line 1. | On/off |
| 020-048 | V.17 14400 bps Line1 | Emits V.17 14400 bps on line 1. | On/off |

Table 13 Output codes 020

| Code | Displayed Name | Description | General |
|---------|-------------------------|-------------------------------------|---------|
| 020-049 | V.34 2400 bps Line1 | Emits V.34 2400 bps on line 1. | On/off |
| 020-050 | V.34 4800 bps Line1 | Emits V.34 4800 bps on line 1. | On/off |
| 020-051 | V.34 7200 bps Line1 | Emits V.34 7200 bps on line 1. | On/off |
| 020-052 | V.34 9600 bps Line1 | Emits V.34 9600 bps on line 1. | On/off |
| 020-053 | V.34 12000 bps Line1 | Emits V.34 12000 bps on line 1. | On/off |
| 020-054 | V.34 14400 bps Line1 | Emits V.34 14400 bps on line 1. | On/off |
| 020-055 | V.34 16800 bps Line1 | Emits V.34 16800 bps on line 1. | On/off |
| 020-056 | V.34 19200 bps Line1 | Emits V.34 19200 bps on line 1. | On/off |
| 020-057 | V.34 21600 bps Line1 | Emits V.34 21600 bps on line 1. | On/off |
| 020-058 | V.34 24000 bps Line1 | Emits V.34 24000 bps on line 1. | On/off |
| 020-059 | V.34 26400 bps Line1 | Emits V.34 26400 bps on line 1. | On/off |
| 020-060 | V.34 28800 bps Line1 | Emits V.34 28800 bps on line 1. | On/off |
| 020-061 | V.34 31200 bps Line1 | Emits V.34 31200 bps on line 1. | On/off |
| 020-062 | V.34 33600 bps Line1 | Emits V.34 33600 bps on line 1. | On/off |
| 020-080 | Sngl Tone 0Hz Ln2 | Emits single tone 0Hz on line 2. | On/off |
| 020-081 | Sngl Tone 400Hz Ln2 | Emits single tone 400Hz on line 2. | On/off |
| 020-082 | Sngl Tone 1100Hz Ln2 | Emits single tone 1100Hz on line 2. | On/off |
| 020-083 | Sngl Tone 1300Hz Ln2 | Emits single tone 1300Hz on line 2. | On/off |
| 020-084 | Sngl Tone 1650Hz Ln2 | Emits single tone 1650Hz on line 2. | On/off |
| 020-085 | Sngl Tone 1850Hz Ln2 | Emits single tone 1850Hz on line 2. | On/off |
| 020-086 | Sngl Tone 2100Hz Ln2 | Emits single tone 2100Hz on line 2. | On/off |
| 020-087 | ANSAM Ln2 | Switches on the line 2 ANSAM tone. | On/off |

Table 13 Output codes 020

| 020-088 Cl Ln2 | Code | Displayed Name | Description | General |
|--|---------|--------------------|---------------------------------------|---------|
| DTMF * Line2 | 020-088 | CI Ln2 | · · · · · · · · · · · · · · · · · · · | On/off |
| 020-092 DTMF 0 Line2 Emits DTMF 0 on line 2. On/off 020-093 DTMF 1 Line2 Emits DTMF 1 on line 2. On/off 020-094 DTMF 2 Line2 Emits DTMF 2 on line 2. On/off 020-095 DTMF 3 Line2 Emits DTMF 3 on line 2. On/off 020-096 DTMF 4 Line2 Emits DTMF 4 on line 2. On/off 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 8 on line 2. On/off 020-102 DTMF B Line2 Emits DTMF 8 on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 400 b | 020-090 | DTMF # Line2 | Emits DTMF # on line 2. | On/off |
| 020-093 DTMF 1 Line2 Emits DTMF 1 on line 2. On/off 020-094 DTMF 2 Line2 Emits DTMF 2 on line 2. On/off 020-095 DTMF 3 Line2 Emits DTMF 3 on line 2. On/off 020-096 DTMF 4 Line2 Emits DTMF 3 on line 2. On/off 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 5 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 5 on line 2. On/off 020-099 DTMF 8 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 9 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF C on line 2. On/off 020-103 DTMF B Line2 Emits DTMF C on line 2. On/off 020-104 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 4800 bps Emits | 020-091 | DTMF * Line2 | Emits DTMF * on line 2. | On/off |
| 020-094 DTMF 2 Line2 Emits DTMF 2 on line 2. On/off 020-095 DTMF 3 Line2 Emits DTMF 3 on line 2. On/off 020-096 DTMF 4 Line2 Emits DTMF 4 on line 2. On/off 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 4800 bps Line2 Emits V.27ter 4800 bps on line 2. On/off 020-112 V.27ter 4800 bps Lin | 020-092 | DTMF 0 Line2 | Emits DTMF 0 on line 2. | On/off |
| 020-095 DTMF 3 Line2 Emits DTMF 3 on line 2. On/off 020-096 DTMF 4 Line2 Emits DTMF 4 on line 2. On/off 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 8 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-113 V.2 | 020-093 | DTMF 1 Line2 | Emits DTMF 1on line 2. | On/off |
| 020-096 DTMF 4 Line2 Emits DTMF 4 on line 2. On/off 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 6 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF 9 on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF D Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.27ter 4800 bps on line 2. On/off 020-113 V.29 9600 bps Line3 Emits V.29 9600 bps on line 2. On/off Line2 | 020-094 | DTMF 2 Line2 | Emits DTMF 2 on line 2. | On/off |
| 020-097 DTMF 5 Line2 Emits DTMF 5 on line 2. On/off 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF D Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-104 DTMF D Line2 Emits V.21 300 bps on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.27 ter 2400 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-113 V.29 7200 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-11 | 020-095 | DTMF 3 Line2 | Emits DTMF 3 on line 2. | On/off |
| 020-098 DTMF 6 Line2 Emits DTMF 6 on line 2. On/off 020-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-105 DTMF D Line2 Emits V.21 300 bps on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-111 V.27ter 4800 bps Line2 Emits V.27ter 4800 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7900 bps Line2 Emits V.17 7200 bps on line 2. On/off | 020-096 | DTMF 4 Line2 | Emits DTMF 4 on line 2. | On/off |
| D20-099 DTMF 7 Line2 Emits DTMF 7 on line 2. On/off | 020-097 | DTMF 5 Line2 | Emits DTMF 5 on line 2. | On/off |
| 020-100 DTMF 8 Line2 Emits DTMF 8 on line 2. On/off 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF C on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off Line2 Emits V.27ter 4800 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-113 V.29 7200 bps Emits V.29 9600 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.17 7200 bps on line 2. On/off 020-115 V.17 7200 bps Emits V.17 9600 bps on line 2. On/off 020-116 V.77 14000 bps Emits V.17 12000 bps on line 2. On/off Line2 Emits V.17 14400 bps on line 2. | 020-098 | DTMF 6 Line2 | Emits DTMF 6 on line 2. | On/off |
| 020-101 DTMF 9 Line2 Emits DTMF 9 on line 2. On/off 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF C on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.27ter 4800 bps on line 2. On/off 020-113 V.29 7200 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7200 bps Line2 Emits V.17 7200 bps on line 2. On/off 020-115 V.17 9600 bps Line2 Emits V.17 12000 bps on line 2. On/off 020-116 V.17 12000 bps Line2 Emits V.17 14400 bps on line 2. On/off 020-118 V.17 14400 bps Line2 Emits V.34 2400 bps on line | 020-099 | DTMF 7 Line2 | Emits DTMF 7 on line 2. | On/off |
| 020-102 DTMF A Line2 Emits DTMF A on line 2. On/off 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF C on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-113 V.29 7200 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.17 7200 bps on line 2. On/off 020-115 V.17 7200 bps Line2 Emits V.17 9600 bps on line 2. On/off 020-116 V.17 9600 bps Line2 Emits V.17 12000 bps on line 2. On/off 020-117 V.17 14400 bps Line2 Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off | 020-100 | DTMF 8 Line2 | Emits DTMF 8 on line 2. | On/off |
| 020-103 DTMF B Line2 Emits DTMF B on line 2. On/off 020-104 DTMF C Line2 Emits DTMF C on line 2. On/off 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-113 V.29 7200 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7200 bps Line2 Emits V.17 7200 bps on line 2. On/off 020-115 V.17 9600 bps Line2 Emits V.17 9600 bps on line 2. On/off 020-117 V.17 12000 bps Line2 Emits V.17 14400 bps on line 2. On/off 020-118 V.17 14400 bps Line2 Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Line2 Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Line2 Emit | 020-101 | DTMF 9 Line2 | | On/off |
| D20-104 DTMF C Line2 Emits DTMF C on line 2. On/off | 020-102 | DTMF A Line2 | Emits DTMF A on line 2. | On/off |
| 020-105 DTMF D Line2 Emits DTMF D on line 2. On/off 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Line2 Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Line2 Emits V.27ter 4800 bps on line 2. On/off 020-113 V.29 7200 bps Line2 Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Line2 Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7200 bps Line2 Emits V.17 7200 bps on line 2. On/off 020-116 V.17 9600 bps Line2 Emits V.17 9600 bps on line 2. On/off 020-117 V.17 12000 bps Line2 Emits V.17 12000 bps on line 2. On/off 020-118 V.17 14400 bps Line2 Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Line2 Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on l | 020-103 | DTMF B Line2 | Emits DTMF B on line 2. | On/off |
| 020-110 V.21 300 bps Line2 Emits V.21 300 bps on line 2. On/off 020-111 V.27ter 2400 bps Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Emits V.27ter 4800 bps on line 2. On/off 020-113 V.29 7200 bps Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7200 bps Emits V.17 7200 bps on line 2. On/off 020-116 V.17 9600 bps Emits V.17 9600 bps on line 2. On/off 020-117 V.17 12000 bps Emits V.17 12000 bps on line 2. On/off 020-118 V.17 14400 bps Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-104 | DTMF C Line2 | Emits DTMF C on line 2. | On/off |
| 020-111 V.27ter 2400 bps Emits V.27ter 2400 bps on line 2. On/off 020-112 V.27ter 4800 bps Emits V.27ter 4800 bps on line 2. On/off 020-113 V.29 7200 bps Emits V.29 7200 bps on line 2. On/off 020-114 V.29 9600 bps Emits V.29 9600 bps on line 2. On/off 020-115 V.17 7200 bps Emits V.17 7200 bps on line 2. On/off 020-116 V.17 9600 bps Emits V.17 9600 bps on line 2. On/off 020-117 V.17 12000 bps Emits V.17 12000 bps on line 2. On/off 020-118 V.17 14400 bps Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-105 | DTMF D Line2 | Emits DTMF D on line 2. | On/off |
| Line2 020-112 V.27ter 4800 bps | 020-110 | V.21 300 bps Line2 | Emits V.21 300 bps on line 2. | On/off |
| Line2 020-113 V.29 7200 bps | 020-111 | | Emits V.27ter 2400 bps on line 2. | On/off |
| Line2 020-114 V.29 9600 bps | 020-112 | | Emits V.27ter 4800 bps on line 2. | On/off |
| Line2 020-115 V.17 7200 bps Emits V.17 7200 bps on line 2. On/off 020-116 V.17 9600 bps Emits V.17 9600 bps on line 2. On/off 020-117 V.17 12000 bps Emits V.17 12000 bps on line 2. On/off 020-118 V.17 14400 bps Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-113 | | Emits V.29 7200 bps on line 2. | On/off |
| Line2 020-116 V.17 9600 bps | 020-114 | ' | Emits V.29 9600 bps on line 2. | On/off |
| Line2 020-117 V.17 12000 bps Emits V.17 12000 bps on line 2. On/off 020-118 V.17 14400 bps Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | | Line2 | · | On/off |
| Line2 020-118 V.17 14400 bps Emits V.17 14400 bps on line 2. On/off 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-116 | | Emits V.17 9600 bps on line 2. | On/off |
| Line2 020-119 V.34 2400 bps Emits V.34 2400 bps on line 2. On/off 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-117 | • | Emits V.17 12000 bps on line 2. | On/off |
| Line2 020-120 V.34 4800 bps Emits V.34 4800 bps on line 2. On/off 020-121 V.34 7200 bps Emits V.34 7200 bps on line 2. On/off 020-122 V.34 9600 bps Emits V.34 9600 bps on line 2. On/off | 020-118 | • | · | On/off |
| Line2 | | Line2 | · | On/off |
| Line2 | | Line2 | · | On/off |
| 1 1 1 1 | | Line2 | Emits V.34 7200 bps on line 2. | On/off |
| | 020-122 | | Emits V.34 9600 bps on line 2. | On/off |

Table 13 Output codes 020

| Code | Displayed Name | Description | General |
|---------|-------------------------|---------------------------------|---------|
| 020-123 | V.34 12000 bps Line2 | Emits V.34 12000 bps on line 2. | On/off |
| 020-124 | V.34 14400 bps Line2 | Emits V.34 14400 bps on line 2. | On/off |
| 020-125 | V.34 16800 bps Line2 | Emits V.34 16800 bps on line 2. | On/off |
| 020-126 | V.34 19200 bps Line2 | Emits V.34 19200 bps on line 2. | On/off |
| 020-127 | V.34 21600 bps Line2 | Emits V.34 21600 bps on line 2. | On/off |
| 020-128 | V.34 24000 bps Line2 | Emits V.34 24000 bps on line 2. | On/off |
| 020-129 | V.34 26400 bps Line2 | Emits V.34 26400 bps on line 2. | On/off |
| 020-130 | V.34 28800 bps Line2 | Emits V.34 28800 bps on line 2. | On/off |
| 020-131 | V.34 31200 bps Line2 | Emits V.34 31200 bps on line 2. | On/off |
| 020-132 | V.34 33600 bps Line2 | Emits V.34 33600 bps on line 2. | On/off |

Table 14 Output codes 061 to 066

| Code | Displayed Name | Description | General |
|---------|------------------------------------|---|----------------------------|
| 062-002 | Platen Exposure Lamp | Energizes the scanner exposure lamp. | On/off. 90 seconds timeout |
| 062-023 | Carriage Home Sensor Test | Scanner carriage home sensor test. This must be used in conjunction with 62-100 Carriage Home Sensor. Add both components, start the sensor test, then the carriage home sensor test. The sensor will cycle its state as the carriage moves to and from home. | On/off. 90 seconds timeout |
| 062-024 | Carriage Move Doc Size Position | Drives the scanner carriage to the document size position. | On/off. 90 seconds timeout |
| 062-025 | Carriage Move CVT Position | Drives the scanner carriage to the CVT position. | On/off. 90 seconds timeout |
| 062-026 | Carriage Move Test Position A | Drives the scanner carriage to test position A. | On/off. 90 seconds timeout |
| 062-027 | Carriage Move Test Position B | Drives the scanner carriage to test position B. | On/off. 90 seconds timeout |
| 062-028 | Carriage Move Test Position C | Drives the scanner carriage to test position C. | On/off. 90 seconds timeout |

Table 14 Output codes 061 to 066

| Code | Displayed Name | Description | General |
|---------|-------------------------------------|--|----------------------------|
| 062-029 | Scan Cooling Fan | Runs the scanner cooling fan. | On/off. 90 seconds timeout |
| 062-030 | Carriage Move Cal Strip Position | Drives the scanner carriage to the calibration position. | On/off. 90 seconds timeout |
| 062-031 | Carriage Move Home Position | Drives the scanner carriage to the home position. | On/off. 90 seconds timeout |
| 066-002 | DH Exposure Lamp | Energizes the SPDH exposure lamp. | On/off. |
| 066-030 | DH move Cal Strip Position | Drives the SPDH calibration strip to the home position. | On/off. |

Table 15 Output codes 071 to 076

| Code | Displayed Name | Description | General |
|---------|------------------|--|---|
| 071-010 | T1 Elevate Motor | Runs the tray 1 elevator motor (MOT71-010) up. | On/off. Linked to tray 1 home sensor. Only run with tray out. 5 seconds timeout |
| 072-010 | T2 Elevate Motor | Runs the tray 2 elevator motor (MOT72-010) up. | On/off. Linked to tray 2 home sensor. Only run with tray out. 5 seconds timeout |
| 073-010 | T3 Elevate Motor | Runs the tray 3 elevator motor (MOT73-010) up. | On/off. Linked to tray 3 home sensor. Only run with tray out. 10 seconds time- out |
| 074-010 | T4 Elevate Motor | Runs the tray 4 elevate motor (MOT74-010) up. | On/off. Linked to tray 4 home sensor. Only run with tray out. 10 seconds time- out |

Table 16 Output codes 080 to 083

| Code | Displayed Name | Description | General |
|---------|---|--|-----------------------------|
| 080-006 | TAR/Bypass Tray Motor (TAR Rolls) Process speed | Runs the TAR/bypass tray motor (MOT80-006) forward at process speed to drive the tray 1 and 2 transport rolls. | On/off. 60 seconds timeout. |
| 080-007 | TAR/Bypass Tray Motor (TAR Rolls) Hi Speed | Runs the TAR/bypass tray motor (MOT80-006) forward at high speed to drive the tray 1 and 2 transport rolls. | On/off. 60 seconds timeout. |
| 080-015 | Left Door Fans | Runs both left door fans. | On/off. 90 seconds timeout. |
| 080-025 | TAR/Bypass Tray Motor (Bypass) | Runs the TAR/bypass tray motor (MOT80-006) to drive the bypass tray feed roll. | On/off. 60 seconds timeout. |
| 080-040 | Registration Motor | Runs the registration motor (MOT80-040). | On/off. 5 seconds timeout. |

Table 16 Output codes 080 to 083

| Code | Displayed Name | Description | General |
|---------|------------------------|---|--|
| 081-010 | | Runs the tray 1 feed motor (MOT 81-010). | On/off. Linked to tray 1 home sensor. Paper tray must be open when motor energized. 60 seconds tim- eout |
| 081-020 | T2 Feed Motor | Runs the tray 2 feed motor. (MOT81-020). | On/off. Linked to tray 2 home sensor. Paper tray must be open when motor energized. 60 seconds tim- eout |
| 081-030 | T3 Feed Motor | Runs the tray 3 feed motor (MOT81-030). | On/off. Linked to tray 3 home sensor. Paper tray must be open when motor energized. 90 seconds tim- eout |
| 081-033 | T3 Feed Clutch | Energizes the tray 3 feed clutch (CL81-033). NOTE: The bypass tray clutch will also energize when component control code 081-033 is entered. | On/off. Linked to tray 3 home sensor. Paper tray 3 must be open when the solenoid is energized |
| 081-040 | T4 Feed Motor | Runs the tray 4 feed motor (MOT81-040). | On/off. Linked to tray 4 home sensor. Paper tray must be open when motor energized. 90 seconds tim- eout |
| 081-043 | T4 Feed Clutch | Energizes the tray 4 feed clutch (CL81-043). | On/off. Linked to tray 4 home sensor. Paper tray 4 must be open when the solenoid is energized. 90 seconds timeout |
| 081-045 | HCF Transport Motor | Runs the tray 3 and 4 transport motor (MOT81-045). | On/off. 90 seconds timeout |
| 083-060 | Duplex Motor Slow | Runs the duplex motor (MOT83-060) at simplex speed. | On/off. 90 seconds timeout |
| 083-062 | Duplex Motor Fast | Runs the duplex motor (MOT83-060) at duplex speed. | On/off. 90 seconds timeout |

Table 17 Output codes 093

| Code | Displayed Name | Description | General |
|---------|--------------------------|---|-----------------------------|
| 093-001 | Print Cartridge Fan | Runs the print cartridge fan (MOT93-001) | On/off. 90 seconds timeout. |
| 093-040 | Toner Cartridge Motor | Runs the toner cartridge motor (MOT93-040). | On/off. 60 seconds timeout |

Table 17 Output codes 093

| Code | Displayed Name | Description | General |
|---------|-----------------|--------------------------------|----------------------------|
| 093-045 | Print Cartridge | Runs the print cartridge motor | On/off. 60 seconds timeout |
| | Motor | (MOT93-045). | |

dC361 NVM Save and Restore

Purpose

To restore the NVM parameters of the machine to their previous values after completion of a service action; i.e. NVM expansion, SBC PWB replacement, or any others that would necessitate a full NVM initialization. It can also be used to recover a machine's NVM values to a recent service call, in the event that a complete NVM failure occurred. As an additional tool, the ability to copy files between the hard drive and a USB drive is provided.

The NVM save to hard disk must be performed at the first service call and whenever the system software is changed.

This procedure will save and restore only the SBC and IIT NVM.

NOTE: After a USB flash drive is first connected to the machine, a UI screen message offering scan to and print from USB options will display. This screen message can be closed or left open before entering diagnostics without effecting the NVM save/restore processes. The USB screen message will not reappear on exit from service mode.

Procedure

NVM Save

- 1. If necessary, connect the USB flash drive to the USB port in the UI housing.
- 2. Enter service mode, GP 1.
- Select the Adjustments tab.
- 4. Select dC361 NVM Save and Restore.

The screen displays the NVM data.

NOTE:

- The top entry displays the live NVM data for the machine.
- If the data has previously been saved to the hard disk, these will be displayed in a list below the live data.
- If a USB device containing NVM data is connected, these will be displayed below the hard disk data. To be recognized by the machine, the USB device must be connected at the time dC361 is started.
- Save the NVM data.
 - To save the live data to the hard disk, select the live data entry, then select Save to Hard Drive.
 - To save the hard disk data to a USB device, select the hard disk entry, then select Save to USB Device.
 - To save the USB data to the hard disk, select the USB entry, then select Save to HDD.

NOTE: Data cannot be saved or restored directly to or from the USB device to the machine.

- Select Close to return to the service mode window.
- 7. Select Call Closeout to exit service mode

NVM Restore

1. If necessary, connect the USB drive to the USB port in the UI housing.

- 2. Enter service mode, GP 1.
- 3. Select the Adjustments tab.
- 4. Select dC361 NVM Save and Restore.

The screen displays the NVM data.

- Restore the NVM data.
 - a. Select the entry from the available NVM data on the hard drive.

NOTE: NVM data on a USB device should be copied to the hard drive before it can be restored.

Select Restore Machine NVM.

The status region at the top of the screen will report that the NVM was restored successfully.

- Select Close to return to the service mode window.
- Select Call Closeout to exit service mode.
- 8. Select Exit and Reboot.

dC604 Registration Setup Procedure

Description

The dC604 routine allows the measurement and adjustment of image to paper registration for the Image Output Terminal.

Purpose

To measure and adjust the lead edge and top edge image to paper registration of the image output terminal by performing the routines that follow:

- Image Output Terminal Registration All Trays side 1 simplex lead and top edge registration adjustment.
- Image Output Terminal Registration All Trays side 2 duplex lead and top edge registration adjustment.
- Image Output Terminal Registration Individual trays side 1 simplex lead and top edge registration adjustment.
- Image Output Terminal Registration Individual trays side 2 duplex lead and top edge registration adjustment.

Initial Action

Ensure that 8.5 x 11 or A4 LEF paper is loaded in tray 1.

Procedure

NOTE: During the registration routines, the zone areas are either shifted or cropped, and the remaining lengths of the remaining test pattern rulers are used to calculate the new registration NVM values, Figure 2. The test pattern is designed for both market regions, therefore the size of the edge deletions will depend on the paper size.

- For A4 LEF paper, all edges have a 10mm deletion, but the bottom edge (Zone C on Figure 1) measures 28mm from the edge of the paper.
- For 8.5 x 11 LEF paper, all edges have a 10mm deletion, but the trail edge (Zone B on Figure 1) measures 16mm from the edge of the paper.

NOTE: Always perform the IOT Registration Side 1 adjustments before performing any other registration adjustment, as the IOT Registration Side 1 adjustment affects the others.

NOTE: Always perform an All Trays registration before the registration of any Individual Trays. If the processes are run in reverse order the registration of any individual trays will be overwritten and lost.

- 1. Enter service mode. GP 1.
- Select the Adjustment tab.
- Select dC604 Registration Setup.
- Select dC604 IOT Registration.
- Select All Trays.

NOTE: Do not select individual trays unless directed by the documentation.

- Select Side 1.
- 7. Select Print Test Patterns, then follow the UI screen prompts.
- 8. Select Side 2.
- Select Print Test Patterns, then follow the UI screen prompts.

NOTE: The output prints are duplex. Side 2 is face up in the output tray.

- 10. If the correct registration can not be obtained because the registration scales are out of range or off the page, enter dC301 NVM Initialization. Select Machine Variable NVM and initialize. This will reset all of the registration values to default. Return to step 3.
- 11. The individual trays can be adjusted to compensate for any mechanical variation between the trays, which may cause an error in the top edge registration.

The individual tray top edge has an adjustment range of \pm 1-10mm with increments of 0.5mm. When saved, the adjustment will update the NVM offset value for the specific tray.

To adjust the top edge registration on individual trays perform the steps that follow:

- a. Enter service mode GP 1.
- b. Select the Adjustments tab.
- Select dC604 Registration Setup.
- d. Select Individual trays.
- e. Select Print Test Patterns, then follow the UI screen prompts.
- Select Image Output Terminal Registration Side 2. Repeat the above procedure as necessary.
- g. Select Close to return to the service mode window.
- Select Call Closeout to exit service mode.
- i. Select Exit and Reboot.
- 12. Check for skew. Refer to IQS 5 Skew.

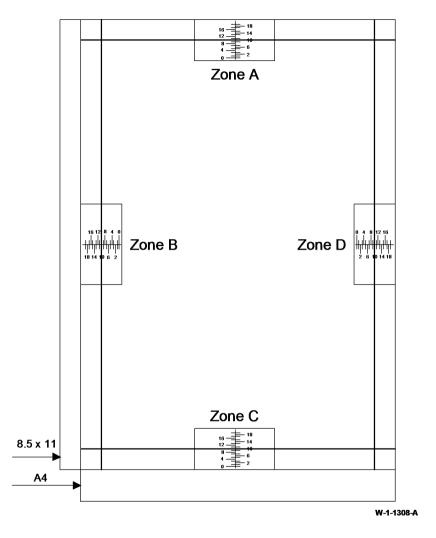


Figure 1 Registration test pattern

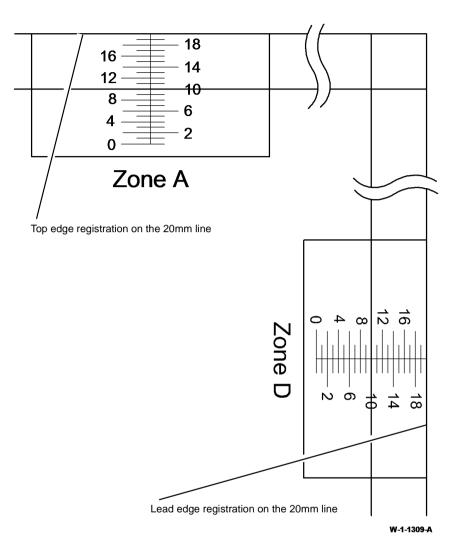


Figure 2 IOT registration

dC608 Document Feeder Registration

Purpose

This feature checks the registration of the document feeder and corrects any misalignments. The process runs automatically and does not require any user intervention other than inserting 3 blank sheets in the document feeder.

Initial Action

This routine must be run in conjunction and in numerical order with the dC routines listed in Table 1.

Table 1 dC routine order

| IIT Conjunctional dC Routine Sequence |
|---|
| 1. dC604 Image Output Terminal Registration |
| 2. dC609 Document Glass Registration |
| 4. dC610 CCD Lamp Profile Adjustment |
| 5. dC608 Document Feeder Registration |
| 6. dC945 IIT Calibration |

Procedure

- Enter service mode, GP 1.
- Select the Adjustments tab.
- 3. Perform all the listed dC routines preceding this routine in Table 1.

NOTE: Do not continue with this routine unless dC604, dC609 and dC610 have been performed.

- 4. Select dC608 Document Feeder Registration.
- 5. Insert 3 blank A4 or 8.5x11 inch white sheets, SEF, into the document feeder.
- Ensure the document guides are correctly adjusted.
- 7. Select Start.

The document feeder feeds the documents.

The screen displays the registration values.

- Select Close to exit the routine.
- Perform all the listed dC routines following this routine in Table 1.
- Select Call Closeout to exit service mode
- 11. Select Exit and Reboot.

NOTE: Ensure that dC945 is performed after this routine has been completed.

dC609 Document Glass Registration

Purpose

This feature checks the registration of the document glass and corrects any misalignments. The process runs automatically and does not require any user intervention other than keeping the SPDH open during the operation.

Initial Action

This routine must be run in conjunction and in numerical order with the dC routines listed in Table 1.

Table 1 dC routine order

| IIT Conjunctional dC Routine Sequence | |
|---|--|
| 1. dC604 Image Output Terminal Registration | |
| 2. dC609 Document Glass Registration | |
| 4. dC610 CCD Lamp Profile Adjustment | |
| 5. dC608 Document Feeder Registration | |
| 6. dC945 IIT Calibration | |

Procedure

- 1. Enter service mode, GP 1.
- 2. Select the Adjustments tab.
- Perform all the listed dC routines preceding this routine in Table 1.

NOTE: Do not continue with this routine unless dC604, has been performed.

- Select dC609 Document Glass Registration.
 - The screen displays the current registration values.
- Open the SPDH. Remove any documents from the document glass.

NOTE: The SPDH should remain open until this procedure is complete.

- Select Start to run the routine.
 - The screen displays the values for before and after registration.
- Select Close to exit the routine.
- 8. Perform all the listed dC routines following this routine in Table 1.
- Select Call Closeout to exit service mode.
- Select Exit and Reboot.

NOTE: Ensure that dC610, dC608 and dC945 are performed after this routine has been completed.

dC610 CCD Lamp Profile Adjustment

Purpose

To adjust the side 1 (scanner), then the side 2 (SPDH) scan lamps to maintain optimum image quality.

Initial Action

This routine must be run in conjunction and in numerical order with the dC routines listed in Table 1.

Table 1 dC routine order

| IIT Conjunctional dC Routine Sequence | |
|--|--|
| dC604 Image Output Terminal Registration | |
| 2. dC609 Document Glass Registration | |
| 4. dC610 CCD Lamp Profile Adjustment | |
| 5. dC608 Document Feeder Registration | |
| 6. dC945 IIT Calibration | |

Procedure

- 1. Enter service mode, GP 1.
- 2. Select the Adjustment tab.
- 3. Perform all the listed dC routines preceding this routine in Table 1.

NOTE: Do not continue with this routine unless dC604 and dC609 have been performed.

- Select dC610 CCD Lamp Profile Adjustment.
- 5. Select Start to run the routine.
- 6. Select Close to exit the routine.
- 7. Perform all the listed dC routines following this routine in Table 1.
- Select Call Closeout to exit service mode.
- 9. Select Exit and Reboot.

NOTE: Ensure that dC608 and dC945 are performed after this routine has been completed.

dC610 Failure

- If dC610 reports a failure when adjusting the side 1 (scanner), check the fault history of the machine. Clear any faults, Run dC610 again. If side 1 still fails, check all wiring and connectors between the scanner PWB and the scan carriage assembly, refer to WD16. Pay particular attention to ensure the ribbon cable connections are good.
- If dC610 reports a failure when adjusting the side 2 (SPDH), check the fault history of the
 machine. Clear any faults, Run dC610 again. If side 2 still fails, check all wiring connectors between the SPDH PWB and the side 2 scan assembly, refer to WD13 and WD16.
 Also check the wiring and connectors between the SPDH PWB and the scanner PWB,
 refer to WD13. Pay particular attention to ensure the ribbon cable connections are good.

dC612 Print Test Pattern

Purpose

To print the internal test patterns.

NOTE: All test prints should be printed long edge feed.

Procedure

- Enter service mode, GP 1.
- Select the Diagnostics tab.
- Select dC612 Print Test Pattern
- Select the test pattern required. Refer to IQ1 Image Quality Entry RAP. Select from the available options for the required test pattern.

NOTE: In most instances the recommended paper size is Letter/A4, but the test can be run from all trays, paper sizes or paper types.

- Select Close to exit the routine.
- Select Call Closeout to exit service mode.
- Select Exit and Reboot.

NOTE: For details of test patterns, descriptions of their application, media size and other features, refer to IQ1 Image Quality Entry RAP.

dC945 IIT Calibration

Purpose

To automatically calculate and set the white-reference correction factor for paper white and calibration strip variations. This procedure must be run whenever a side 2 scan assembly, scan carriage assembly, scanner module, scanner module component, or a complete SPDH is removed.

Initial Action

- Perform as appropriate ADJ 60.1 Scanner Cleaning Procedure and/or ADJ 60.2 Side 2 Scan Assembly Cleaning Procedure.
- This routine must be run in conjunction and in numerical order with the dC routines listed in Table 1.

Table 1 dC routine order

| IIT Conjunctional dC Routine Sequence |
|--|
| dC604 Image Output Terminal Registration |
| 2. dC609 Document Glass Registration |
| 4. dC610 CCD Lamp Profile Adjustment |
| 5. dC608 Document Feeder Registration |
| 6. dC945 IIT Calibration |

Procedure

II.

- 1. Enter service mode, GP 1.
- 2. Select the Adjustments tab.

NOTE: This routine requires the use of 1 of the 5 approved paper types, set to a corresponding NVM value, Table 2. If a correct paper type is not available, do not run the dC 945 routine. Leave the NVM setting at default, Table 3.

- Set the NVM value to your approved paper type, Table 2. Refer to dC131 NVM Read/
- Perform all the listed dC routines preceding this routine in Table 1.

NOTE: Do not continue with this routine before dC604, dC609, dC610 and dC608 have been performed.

- Select dC945 IIT Calibration.
- Select Document Handler.
- Follow the on screen instructions.
- Select Platen.
- Follow the on screen instructions.
- Select Close to exit the routine.
- 11. Select Call Closeout to exit service mode.

Table 2 Approved paper types

| Approved Paper Types for dC945 | Approved Paper Size | ScannerPaperCode NVM Location 801-80 Value Setting |
|--------------------------------|---------------------|--|
| J_ Paper 22lb, 82gsm | A3 or 11 x 17 inch | 1 |
| ColorXpressions 24lb, 90gsm | A3 or 11 x 17 inch | 5 |
| ColorTechPlus 24lb, 90gsm | A3 or 11 x 17 inch | 6 |
| Xerox 4200 20lb, 75gsm | A3 or 11 x 17 inch | 7 |
| Xerox Business 21lb, 80gsm | A3 or 11 x 17 inch | 8 |

dC945 Failure

If dC945 fails, perform the steps that follow:

- Set the NVM values listed in Table 3 to their default value. Refer to dC131 NVM Read/ Write.
- Go to SCP 1 Initial Actions. Then check the fault history of the machine. Clear any faults, then perform dC945.

Table 3 NVM Values

| Description | NVM Location | NVM Value | |
|---------------------|--------------|-----------|--|
| PlatenWhiteRefRed | 801 - 81 | 260 | |
| PlatenWhiteRefGreen | 801 - 82 | 262 | |
| PlatenWhiteRefBlue | 801 - 83 | 260 | |
| PlatenWhiteRefMono | 801 - 84 | 262 | |
| CvtWhiteRefMono | 801 - 20 | 296 | |
| CvtWhiteRefRed | 801 - 21 | 304 | |
| CvtWhiteRefGreen | 801 - 22 | 301 | |
| CvtWhiteRefBlue | 801 - 23 | 290 | |
| CvtWhiteRefMono | 803 - 20 | 294 | |
| CvtWhiteRefRed | 803 - 21 | 295 | |
| CvtWhiteRefGreen | 803 - 22 | 295 | |
| CvtWhiteRefBlue | 803 - 23 | 286 | |

Tags

Purpose

To provide a list of all the tag numbers used, together with a description of each of the machine modifications.

Description

Each modification to the system is assigned a unique tag number. This section of the service documentation contains a listing and brief description of all change tags.

Change tags listed in this section are listed by machine module. The module to which the tag relates is identified by the tag prefix letter. For example; Tag F048 applies to the 2K LCSS. The module prefixes are:

- Processor Tags 001 to 250 (no prefix).
- SPDH Tags D001 to D050.
- Scanner Tags S001 to S050.
- 2K LCSS Tags F001 to F050.
- LVF BM Tags B001 to B050.
- Fax Tags X001 to X050.

Tag Information

Information that may be included with each tag item is as follows:

- Tag indicates the control number for the tag.
- Class indicates the classification codes as listed in Table 1.
- Use identifies the multinational operating markets affected by the modification.
- Manufacturing Serial Number indicates the serial number of the factory-built machines with the modification installed.
- Purpose provides a brief description of the modification.
- Name identifies the name of the part or modification.
- Kit Number identifies the part number of the kit or part required to install the modification.
- Reference or Parts List On indicates the parts list where the kit or modification part can be found.

Mod/Tag Plate Location

The Processor module. Open the left door assembly. The Mod/Tag plate is located on the inboard rear of the IOT frame.

The SPDH module. Lift up the SPDH top cover assembly. The Mod / Tag plate is located on the inside of the top cover on the outboard side.

The scanner module. Remove the scanner rear cover, PL 5.10 Item 1. The Mod/Tag plate is located on the inside of the rear cover.

The 2K LCSS module. Un-dock the 2K LCSS. Refer to REP 12.13-110. The Mod/Tag plate is located in the base pan of the 2K LCSS.

The LVF BM module. Undock the LVF BM module. Refer to REP 12.13-150. The Mod/Tag plate is located on the booklet tamper assembly, PL 12.380 Item 1.

Fax module. The Mod/Tag plate is located on the underside of the fax module.

Classification Codes

The class or classification codes are described in Table 1.

Table 1 Classification codes

| NASG Code | XE Code | Description |
|--------------|------------|---|
| - | 1 | Safety: install this tag immediately. |
| М | 2 | Mandatory: install this tag at the next opportunity. |
| R | 3 | Repair: install this tag as a repair, at the failure of a component. |
| 0 | 4 | Optional: install as a customer option or a field engineering decision. |
| S | 4 | Situational: install as the situation demands. |
| N | 5 | Manufacturing: cannot be installed in the field. |
| - | 6 | Refurbishing only. |

Processor Tags

TAG: 001

CLASS: 4

NAME: Horizontal Transport Kit

PURPOSE: To convert a centre output tray configured machine for use with a 2K LCSS or

LVF BM finishing device. After conversion, the offset sensor, PL 10.11 Item 8, and offset motor, PL 10.11 Item 14, are not used, but remain in place. Also refer

to TAG 002.

KIT NUMBER: 497K13821
PARTS LIST ON: PL 31.14 Item 5

TAG: 002

CLASS: 4

NAME: Horizontal Transport Shuttle Fastening

PURPOSE: To indicate that a screw fastens the horizontal transport offset shuttle in

machines converted to centre output tray configuration. Also refer to TAG 001.

KIT NUMBER: 497K13821 **PARTS LIST ON:** PL 10.11

TAG: 003

CLASS: 3

NAME: Tray 3 Paper Feed Assembly Spares Kit

PURPOSE: To install a new paper feed assembly that does not have a tray over elevate

switch. An over elevate switch bypass harness is also installed.

PARTS LIST ON: PL 31.12 Item 6.

TAG: 004

CLASS: 3

NAME: Tray 4 Paper Feed Assembly Spares Kit

PURPOSE: To install a new paper feed assembly that does not have a tray over elevate

switch. An over elevate switch bypass harness is also installed.

PARTS LIST ON: PL 31.12 Item 6.

TAG: 005

CLASS: 4

NAME: Horizontal Transport Motor Grounding

PURPOSE: To provide a ground path for the horizontal transport motor and prevent an elec-

trical charge build-up.

PARTS LIST ON: PL 10.16.

TAG: 006

CLASS: 4

NAME: Duplex Sensor Position

PURPOSE: To improve the performance of the duplex sensor by moving its location, also to

apply a black surface to the duplex roll shaft to eliminate reflections.

PARTS LIST ON: PL 80.10.

TAG: 007

CLASS: 5

NAME: IOT enablement for new single pole interlock switches

PURPOSE: Introduction of single pole front door and left door interlock switch type and har-

nesses W/TAG 015. IOTC will receive switch status from LVPS and not as pre-

viously from switches directly.

PARTS LIST ON: PL 1.10.

TAG: 008

CLASS: 5

NAME: LVPS enablement for single pole interlock switches W/TAG 015

PURPOSE: Introduction of single pole front door and left door interlock switch type and har-

nesses W/TAG 015. LVPS will provide switch status to the IOT PWB.

PARTS LIST ON: PL 1.10.

TAG: 009

CLASS:

NAME: IOT Enablement for non HCF tray 4 controller PWB requirement

PURPOSE: Design improvement.

PARTS LIST ON: PL 1.10.

.

015

CLASS: NAME:

TAG:

E: Single pole front door and left interlock switches and harnesses

PURPOSE: Design improvement. Requires Mod. TAG 007 and Mod. TAG 008 as enablers

for the interlock switches to function.

PARTS LIST ON: PL 1.12.

TAG: 010

CLASS: 5

NAME: Removal of the Encoder from the tray 3 and tray 4 elevator motors

PURPOSE: Supported by SMP2.

PARTS LIST ON: PL 70.21.

TAG: 013

CLASS: 4

NAME: Disabled Toner Cartridge CRUM RFID Reader

PURPOSE: To disable the RFID functionality of the toner cartridge CRUM, then remove the

toner cartridge PWB and associated wiring. This is a requirement in high security environments where RFID readers are not permitted. Refer to GP 42.

PARTS LIST ON: PL 90.17.

TAG: 014

CLASS: 4

NAME: Centre output tray kit

PURPOSE: To convert a horizontal transport configured machine to a centre outup tray

machine. After conversion, the offset sensor, PL 10.11 Item 8, and offset motor,

PL 10.11 Item 14, are put back into use.

PARTS LIST ON: PL 31.11 Item 9.

SPDH Tags

TAG: D-001

CLASS: 4

NAME: Doc present sensor actuator

PURPOSE: Design of actuator revised to cope better with curled originals.

PARTS LIST ON: PL 5.30 Item 6.

TAG: D-002

CLASS: 5

NAME: Last sheet out sensor

PURPOSE: Sensor with reduced sensitivity to overhead lighting.

PARTS LIST ON: PL 5.30 Item 2, PL 5.30 Item 18,

NOTE: There are 3 Mod. Tag D-002 associated spares available:

- PL 5.30 Item 2, provides a Mod. Tag D-002 ready tray upper assembly.
- PL 5.30 Item 18, provides a Mod. Tag D-002 ready sensor.
- PL 5.30 Item 20, provides a Mod. Tag D-002 add on filter to convert a W/O tag D-002 sensor.

TAG: D-003

CLASS: 5

NAME: Removal of earth wire to length sensor 2
PURPOSE: To reduce the SPDH sensitivity to ESD.

PARTS LIST ON: PL 5.30 Item 3.

NOTE: The removed ground wire was part of the tray lower assembly. The ground wire was connected to a grounding strip adjacent to length sensor 2. Electrostatic discharge was tracking through the removed ground wire and interfering with the SPDH sensor system.

TAG: D-004

CLASS: 4

NAME: SPDH separation assembly Mylar guide length increased from 13mm to 15

mm

PURPOSE: To improve the initial feed of documents from the input tray of the SPDH. Instal-

lation of the larger Mylar guide W/TAG D004 prevents document jams

against the retard roll.

PARTS LIST ON: PL 5.25, PL 31.14.

NOTE: There are 2 Mod. Tag D-004 associated spares available:

- PL 31.14 Item 14, provides an extended mylar guide to convert a W/O TAG 004 seperation assembly.
- PL 31.14 Item 15, provides a seperation assembly with an extended mylar guide.

Scanner Tags

S-00X

TAG:

2K LCSS Tags

TAG: F-001

CLASS: 5

NAME: New 2K LCSS graphic labels
PURPOSE: New jam clearance instructions.

KIT NUMBER: None PARTS LIST ON: None

TAG: F-002

CLASS: 5

NAME: 2K LCSS tamper arms and exit sensor timing

PURPOSE: To improve stacking performance.

KIT NUMBER:

PARTS LIST ON: PL 12.45

TAG: F-003

CLASS: 5

NAME: 2K LCSS entry guide cover change

PURPOSE: To improve performance.

KIT NUMBER:

PARTS LIST ON: PL 12.70 Item 5

TAG: F-004

CLASS: 5

NAME: 2K LCSS noise reduction kit
PURPOSE: Reduction of operational noises.

KIT NUMBER: PARTS LIST ON:

TAG: F-005

CLASS: 5

NAME: 2K LCSS elevator motor encoder sensor.

PURPOSE: A new sensor with an improved response time.

KIT NUMBER:

PARTS LIST ON: PL 12.30 Item 11

TAG: F-006

CLASS: 4

NAME: 2K LCSS hole punch field repair kit.

PURPOSE: To implement an adjustment for the 2K LCSS hole punch, for machines with TAG F014 installed, in order to return the 2K LCSS to manufactured specifica-

tion. All machines with an 2K LCSS hole punch are manufactured with TAG

F006.

KIT NUMBER:

PARTS LIST ON: PL 12.20

TAG: F-007

CLASS: 5

NAME: 2K LCSS rear frame cutout modified.

PURPOSE: Change to the cutout in the rear frame to accommodate all configurations of

hole punches

KIT NUMBER: PARTS LIST ON: -

TAG: F-008

CLASS: 4

NAME: 2K LCSS legal 2 hole enable kit.

PURPOSE: For use on machines with TAG F007 installed. TAG F008 moves the position of

the punch sensor 1, Q12-078. All types of hole punch (2 hole, 3 hole, 4 hole,

Swedish and legal SEF) are compatible with TAG F008.

KIT NUMBER:

PARTS LIST ON: PL 12.20

TAG: F-009

CLASS: 4

NAME: Sharp edges removed from area 5 (safety)

PURPOSE: To make safe the customer interaction area around the hole punch.

KIT NUMBER:

PARTS LIST ON: -

TAG: F-010

CLASS: 4

NAME: 20 ohm tamper motor

PURPOSE: To eliminate the tamper motor from stalling.

KIT NUMBER: -

PARTS LIST ON: PL 12.45

TAG: F-011

CLASS: 4

NAME: Re-routed harness

PURPOSE: To improve the routing of the staple harness by using a longer harness.

KIT NUMBER: -

PARTS LIST ON: -

TAG: F-013

CLASS: 4

NAME: 2K LCSS bin 1 kit

PURPOSE: Modified angle to the output tray to reduce problem with paper curl.

KIT NUMBER:

PARTS LIST ON: PL 12.10

TAG: F-014

CLASS: 4

NAME: 2K LCSS Hole punch field repair kit

PURPOSE: To implement an adjustment for the 2K LCSS hole punch in the outboard direc-

tion.

KIT NUMBER:

PARTS LIST ON: PL 12.20

TAG: F-015

CLASS: 2

NAME: 2K LCSS Control PWB kit

PURPOSE: To enable the erase part of the software load.

KIT NUMBER:

PARTS LIST ON: PL 12.75

TAG: F-016

CLASS: 3

NAME: 2K LCSS Paddle assembly

PURPOSE: New paddle wheel shaft assembly featuring increased grip paddles that are

now a clip in fitting.

KIT NUMBER: -

PARTS LIST ON: PL 12.25

TAG: F-017

CLASS: 3

NAME: Shaft Diverter Assembly Spares Kit

PURPOSE: Cost saving replacement shaft diverter assembly with 3 KL-clip fixings

KIT NUMBER:

PARTS LIST ON: PL 12.60

LVF BM Tags TAG: B-000

Fax Tags

TAG: X-001

CLASS: 3

NAME: R6 1 line and 2 line fax PWB

PURPOSE: Designed to reduce the instances of 320-320-00 faults.

KIT NUMBER:

PARTS LIST ON: PL 20.05

TAG: X-002

CLASS: 3

NAME: CFax34 1 line and 2 line fax PWB
PURPOSE: Introduction of a new fax modem.

KIT NUMBER:

PARTS LIST ON: PL 20.05

NOTE: Requires machine software version 073.xxx.xxx.xxx to function.

7 Wiring Data

| Plug Jack Locations | |
|---------------------|------|
| PJ Locations | 7-3 |
| Wiring Diagrams | |
| Wiring Diagrams | 7-25 |

PJ Locations

PJ Location Tables

To locate a PJ, go to the appropriate table.

- HVPS Contacts, Table 1.
- PJ1 to PJ81, Table 2.
- PJ100 to PJ251, Table 3.
- PJ300 to PJ318, Table 4.
- PJ400 to PJ450, Table 5.
- PJ451 to PJ494, Table 6.
- PJ507 to PJ977. Table 7.

Location Figures for PWB Connectors and In-line Connectors

NOTE: Part list references are given with each figure.

NOTE: The pin numbers shown on the location figures depict the location of the pins as marked on the PWB. If the pin numbers marked on a harness connector differ, the PWB pin numbers take precedence.

- 1. 2K LCSS PWB, Figure 1.
- 2. Fax connector PWB, Figure 2.
- 3. Finisher communications connector, Figure 3.
- 4. Foreign device interface PWB, Figure 4.
- 5. Fuser module, Figure 5.
- 6. HVPS, Figure 6.
- 7. In-line connectors PJ177/178 and PJ179/180, Figure 7.
- 8. In-line connectors PJ184/185, PJ187/188, PJ224/225 and PJ512, Figure 8.
- 9. In-line connectors PJ198/199, PJ217/218, PJ222/223, PJ226/227 and PJ595, Figure 9.
- 10. In-line connectors PJ250/251, PJ507, PJ508 and PJ514, Figure 10.
- 11. In-line connector PJ456/492, Figure 11.
- 12. In-line connectors PJ483/484, PJ485/486, PJ487/488 and PJ493/494, Figure 12.
- 13. In-line connector PJ620/622 and PJ621/623, Figure 13.
- 14. In-line connector PJ740/741, Figure 14.
- 15. IOT PWB, Figure 15.
- 16. LED print head module, Figure 16.
- 17. LVF PWB, Figure 17.
- 18. LVF BM PWB, Figure 18.
- 19. LVPS, Figure 19.
- 20. Main drive module, Figure 20.
- 21. Print cartridge, Figure 21.
- 22. SBC PWB, Figure 22.
- 23. Scanner PWB, Figure 23.
- 24. Scanner CCD PWB, Figure 24.
- 25. Scanner LED Drive PWB, Figure 25.

- 26. Scanner LED Lamp PWB, Figure 26.
- 27. Side 2 CCD PWB, Figure 27.
- 28. SPDH LED drive PWB, Figure 28.
- 29. SPDH LED lamp PWB, Figure 29.
- 30. SPDH PWB, Figure 30.
- 31. Tray 1 paper size sensing PWB, Figure 31.
- 32. Tray 2 paper size sensing PWB, Figure 32.
- 33. Tray 4 control PWB, Figure 33.
- 34. UI control PWB, Figure 34.
- 35. UI keyboard PWB, Figure 35.
- 36. UI Status PWB, Figure 36.

Table 1 HVPS contacts

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|-------------|----------------|
| BTR | Figure 6 | HVPS | WD 10 |
| DTS | Figure 6 | HVPS | WD 10 |
| DB | Figure 6 | HVPS | WD 10 |
| BCR | Figure 6 | HVPS | WD 10 |

Table 2 PJ1 to PJ81

| PJ Number | Figure No. | PJ location | Wiring Diagram |
|-----------|------------|------------------------------|----------------|
| 1 | Figure 2 | Fax connector PWB | WD 4 |
| 1 | Figure 19 | LVPS | WD 1 |
| 2 | Figure 2 | Fax connector PWB | WD 4 |
| 16 | Figure 4 | Foreign device interface PWB | WD 4 |
| 81 | Figure 34 | UI control PWB | WD 4 |

Table 3 PJ100 to PJ251

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|------------------------------|----------------|
| 100 | Figure 4 | Foreign device interface PWB | WD 4 |
| 100 | Figure 5 | Fuser module | WD 9 |
| 101 | Figure 18 | LVF BM PWB | WD 27 |
| 101 | Figure 20 | Main drive module | WD 7 |
| 102 | Figure 18 | LVF BM PWB | WD 27 |
| 102 | Figure 20 | Main drive module | WD 7 |
| 103 | Figure 18 | LVF BM PWB | WD 27 |
| 104 | Figure 18 | LVF BM PWB | WD 27 |
| 105 | Figure 18 | LVF BM PWB | WD 28 |
| 106 | Figure 18 | LVF BM PWB | WD 28 |

Table 3 PJ100 to PJ251

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|-----------------------------------|----------------|
| 107 | Figure 18 | LVF BM PWB | WD 28 |
| 108 | Figure 18 | LVF BM PWB | WD 28 |
| 109 | Figure 18 | LVF BM PWB | WD 28 |
| 110 | Figure 18 | LVF BM PWB | WD 29 |
| 111 | Figure 18 | LVF BM PWB | WD 29 |
| 112 | Figure 18 | LVF BM PWB | WD 29 |
| 113 | Figure 18 | LVF BM PWB | WD 29 |
| 130 | Figure 34 | UI control PWB | WD 4 |
| 141 | Figure 5 | Fuser module | WD 9 |
| 155 | Figure 33 | Tray 4 control PWB | WD 18 |
| 156 | Figure 33 | Tray 4 control PWB | WD 18 |
| 157 | Figure 33 | Tray 4 control PWB | WD 18 |
| 158 | Figure 33 | Tray 4 control PWB | WD 18 |
| 159 | Figure 33 | Tray 4 control PWB | WD 18 |
| 160 | Figure 33 | Tray 4 Control PWB | WD 18 |
| 161 | Figure 33 | Tray 4 control PWB | WD 18 |
| 162 | Figure 33 | Tray 4 control PWB | WD 18 |
| 177 | Figure 7 | In-line connector IOT PWB side | WD 5, WD 6 |
| 178 | Figure 7 | In-line connector component side | WD 5, WD 6 |
| 179 | Figure 7 | In-line connector component side | WD 5, WD 6 |
| 180 | Figure 7 | In-line connector IOT PWB side | WD 5, WD 6 |
| 184 | Figure 8 | In-line connector IOT PWB side | WD 7 |
| 185 | Figure 8 | In-line connector component side | WD 7 |
| 187 | Figure 8 | In-line connector cartridge side | WD 9 |
| 188 | Figure 8 | In-line connector IOT PWB side | WD 9 |
| 198 | Figure 9 | In-line connector IOT PWB side | WD 5, WD 7 |
| 199 | Figure 9 | In-line connector IOT sensor side | WD 5, WD 7 |
| 217 | Figure 9 | In-line connector IOT PWB side | WD 5, WD 7 |
| 218 | Figure 9 | In-line connector sensor side | WD 5, WD 7 |
| 222 | Figure 9 | In-line connector IOT PWB side | WD 8 |
| 223 | Figure 9 | In-line connector motor side | WD 8 |
| 224 | Figure 8 | In-line connector IOT PWB side | WD 8 |
| 225 | Figure 8 | In-line connector motor side | WD 8 |
| 226 | Figure 9 | In-line connector component side | WD 5, WD 7 |
| 227 | Figure 9 | In-line connector IOT PWB side | WD 5, WD 7 |
| 250 | Figure 10 | In-line connector IOT PWB | WD 6 |
| 251 | Figure 10 | In-line connector component side | WD 6 |

Table 4 PJ300 to PJ318

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|-------------|----------------|
| 300 | Figure 1 | 2K LCSS PWB | WD 19 |
| 300 | Figure 17 | LVF PWB | WD 23 |
| 301 | Figure 1 | 2K LCSS PWB | WD 19 |
| 301 | Figure 17 | LVF PWB | WD 23 |
| 302 | Figure 1 | 2K LCSS PWB | WD 19 |
| 302 | Figure 17 | LVF PWB | WD 23 |
| 303 | Figure 1 | 2K LCSS PWB | WD 19 |
| 303 | Figure 17 | LVF PWB | WD 23 |
| 304 | Figure 1 | 2K LCSS PWB | WD 19 |
| 304 | Figure 17 | LVF PWB | WD 23 |
| 305 | Figure 1 | 2K LCSS PWB | WD 19 |
| 305 | Figure 17 | LVF PWB | WD 23 |
| 306 | Figure 1 | 2K LCSS PWB | WD 20 |
| 306 | Figure 17 | LVF PWB | WD 24 |
| 307 | Figure 1 | 2K LCSS PWB | WD 20 |
| 307 | Figure 17 | LVF PWB | WD 24 |
| 308 | Figure 1 | 2K LCSS PWB | WD 20 |
| 308 | Figure 17 | LVF PWB | WD 24 |
| 309 | Figure 1 | 2K LCSS PWB | WD 21 |
| 309 | Figure 17 | LVF PWB | WD 25 |
| 310 | Figure 1 | 2K LCSS PWB | WD 21 |
| 310 | Figure 17 | LVF PWB | WD 25 |
| 311 | Figure 1 | 2K LCSS PWB | WD 21 |
| 311 | Figure 17 | LVF PWB | WD 25 |
| 312 | Figure 1 | 2K LCSS PWB | WD 21 |
| 312 | Figure 17 | LVF PWB | WD 25 |
| 313 | Figure 1 | 2K LCSS PWB | WD 22 |
| 314 | Figure 1 | 2K LCSS PWB | WD 22 |
| 314 | Figure 17 | LVF PWB | WD 26 |
| 315 | Figure 1 | 2K LCSS PWB | WD 22 |
| 315 | Figure 17 | LVF PWB | WD 26 |
| 316 | Figure 1 | 2K LCSS PWB | WD 22 |
| 316 | Figure 17 | LVF PWB | WD 26 |
| 317 | Figure 1 | 2K LCSS PWB | WD 22 |
| 318 | Figure 1 | 2K LCSS PWB | WD 22 |
| 318 | Figure 17 | LVF PWB | WD 26 |

Table 5 PJ400 to PJ450

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|-----------------------|----------------|
| 400 | Figure 17 | LVF PWB | WD 26 |
| 401 | Figure 17 | LVF PWB | WD 26 |
| 402 | Figure 17 | LVF PWB | WD 26 |
| 410 | Figure 23 | Scanner PWB | WD 16 |
| 411 | Figure 23 | Scanner PWB | WD 16 |
| 412 | Figure 23 | Scanner PWB | WD 16 |
| 413 | Figure 23 | Scanner PWB | WD 16 |
| 414 | Figure 23 | Scanner PWB | WD 16 |
| 415 | Figure 23 | Scanner PWB | WD 16 |
| 416 | Figure 23 | Scanner PWB | WD 16 |
| 417 | Figure 23 | Scanner PWB | WD 16 |
| 418 | Figure 23 | Scanner PWB | WD 16 |
| 419 | Figure 23 | Scanner PWB | WD 16 |
| 420 | Figure 23 | Scanner PWB | WD 17 |
| 421 | Figure 23 | Scanner PWB | WD 17 |
| 422 | Figure 23 | Scanner PWB | WD 17 |
| 423 | Figure 23 | Scanner PWB | WD 17 |
| 424 | Figure 23 | Scanner PWB | WD 17 |
| 425 | Figure 23 | Scanner PWB | WD 17 |
| 426 | Figure 23 | Scanner PWB | WD 17 |
| 427 | Figure 23 | Scanner PWB | WD 17 |
| 428 | Figure 23 | Scanner PWB | WD 17 |
| 429 | Figure 23 | Scanner PWB | WD 17 |
| 430 | Figure 23 | Scanner PWB | WD 17 |
| 431 | Figure 23 | Scanner PWB | WD 17 |
| 432 | Figure 23 | Scanner PWB | WD 17 |
| 433 | Figure 23 | Scanner PWB | WD 17 |
| 445 | Figure 24 | Scanner CCD PWB | WD 16 |
| 446 | Figure 24 | Scanner CCD PWB | WD 16 |
| 447 | Figure 24 | Scanner CCD PWB | WD 16 |
| 448 | Figure 25 | Scanner LED drive PWB | WD 16 |
| 449 | Figure 25 | Scanner LED drive PWB | WD 16 |
| 450 | Figure 26 | Scanner LED lamp PWB | WD 16 |

Table 6 PJ451 to PJ494

| P | J Number | Figure No. | PJ Location | Wiring Diagram |
|----|----------|------------|----------------|----------------|
| 45 | 51 | Figure 27 | Side 2 CCD PWB | WD 16 |

Table 6 PJ451 to PJ494

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|---------------------------------|----------------|
| 452 | Figure 27 | Side 2 CCD PWB | WD 13 |
| 453 | Figure 27 | Side 2 CCD PWB | WD 13 |
| 454 | Figure 28 | Side 2 LED drive PWB | WD 14 |
| 455 | Figure 29 | Side 2 LED lamp PWB | WD 15 |
| 456 | Figure 11 | In-line connector side 2 PWB | WD 13, WD 14 |
| 458 | Figure 30 | SPDH PWB | WD 13 |
| 459 | Figure 30 | SPDH PWB | WD 13 |
| 460 | Figure 30 | SPDH PWB | WD 13 |
| 461 | Figure 30 | SPDH PWB | WD 13 |
| 462 | Figure 30 | SPDH PWB | WD 13 |
| 463 | Figure 30 | SPDH PWB | WD 13 |
| 464 | Figure 30 | SPDH PWB | WD 14 |
| 465 | Figure 30 | SPDH PWB | WD 14 |
| 466 | Figure 30 | SPDH PWB | WD 14 |
| 467 | Figure 30 | SPDH PWB | WD 14 |
| 468 | Figure 30 | SPDH PWB | WD 14 |
| 469 | Figure 30 | SPDH PWB | WD 15 |
| 470 | Figure 30 | SPDH PWB | WD 15 |
| 471 | Figure 30 | SPDH PWB | WD 15 |
| 472 | Figure 30 | SPDH PWB | WD 15 |
| 473 | Figure 30 | SPDH PWB | WD 15 |
| 474 | Figure 30 | SPDH PWB | WD 15 |
| 475 | Figure 30 | SPDH PWB | WD 15 |
| 483 | Figure 12 | In-line connector SPDH PWB side | WD 15 |
| 484 | Figure 12 | In-line connector fan side | WD 15 |
| 485 | Figure 12 | In-line connector SPDH PWB side | WD 15 |
| 486 | Figure 12 | In-line connector clutch side | WD 15 |
| 487 | Figure 12 | In-line connector SPDH PWB | WD 15 |
| 488 | Figure 12 | In-line connector clutch side | WD 15 |
| 492 | Figure 11 | In-line connector side 2 PWB | WD 13, WD 14 |
| 493 | Figure 12 | In-line connector SPDH PWB side | WD 14 |
| 494 | Figure 12 | In-line connector sensor side | WD 14 |

Table 7 PJ507 to PJ977

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|---|----------------|
| 507 | Figure 10 | In-line connector tray 3 feed clutch | WD 7 |
| 508 | Figure 10 | In-line connector tray 3 elevator motor | WD 7 |
| 510 | Figure 21 | Print cartridge | WD 9 |
| 511 | Figure 16 | LED print head module | WD 2 |

Table 7 PJ507 to PJ977

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|--|----------------|
| 512 | Figure 8 | In-line connector | WD 9 |
| 513 | Figure 21 | Print cartridge | WD 9 |
| 514 | Figure 10 | In-line connector tray 3 over elevate switch | WD 7 |
| 537 | Figure 31 | Tray 1 paper size sensing PWB | WD 5 |
| 544 | Figure 32 | Tray 2 paper size sensing PWB | WD 5 |
| 595 | Figure 9 | In-line connector bypass tray clutch | WD 7 |
| 620 | Figure 13 | In-line connector IOT PWB side | WD 9 |
| 621 | Figure 13 | In-line connector LVPS side | WD 1 |
| 622 | Figure 13 | In-line connector fuser side | WD 9 |
| 623 | Figure 13 | In-line connector main drive module side | WD 1 |
| 650 | Figure 19 | LVPS | WD 9 |
| 651 | Figure 19 | LVPS | WD 1 |
| 652 | Figure 19 | LVPS | WD 1 |
| 653 | Figure 19 | LVPS | WD 9 |
| 654 | Figure 19 | LVPS | WD 1 |
| 655 | Figure 19 | LVPS | WD 2 |
| 656 | Figure 19 | LVPS | WD 1 |
| 740 | Figure 14 | In-line connector print cartridge side | WD 9 |
| 741 | Figure 14 | In-line connector fuser side | WD 9 |
| 750 | Figure 15 | IOT PWB | WD 5 |
| 751 | Figure 15 | IOT PWB | WD 5 |
| 752 | Figure 15 | IOT PWB | WD 6 |
| 754 | Figure 15 | IOT PWB | WD 6 |
| 755 | Figure 15 | IOT PWB | WD 6 |
| 756 | Figure 15 | IOT PWB | WD 7 |
| 757 | Figure 15 | IOT PWB | WD 7 |
| 759 | Figure 15 | IOT PWB | WD 7 |
| 761 | Figure 15 | IOT PWB | WD 7 |
| 762 | Figure 15 | IOT PWB | WD 8 |
| 763 | Figure 15 | IOT PWB | WD 8 |
| 764 | Figure 15 | IOT PWB | WD 9 |
| 766 | Figure 15 | IOT PWB | WD 9 |
| 767 | Figure 15 | IOT PWB | WD 9 |
| 768 | Figure 15 | IOT PWB | WD 10 |
| 769 | Figure 15 | IOT PWB | WD 10 |
| 770 | Figure 15 | IOT PWB | WD 10 |
| 772 | Figure 15 | IOT PWB | WD 10 |
| 773 | Figure 15 | IOT PWB | WD 11 |
| 775 | Figure 15 | IOT PWB | WD 11 |

Table 7 PJ507 to PJ977

| PJ Number | Figure No. | PJ Location | Wiring Diagram |
|-----------|------------|-----------------------------------|----------------|
| 776 | Figure 15 | IOT PWB | WD 12 |
| 782 | Figure 15 | IOT PWB | WD 12 |
| 783 | Figure 15 | IOT PWB | WD 12 |
| 785 | Figure 15 | IOT PWB | WD 31 |
| 786 | Figure 15 | IOT PWB | WD 31 |
| 830 | Figure 6 | HVPS | WD 10 |
| 850 | Figure 22 | SBC PWB | WD 2 |
| 851 | Figure 22 | SBC PWB | WD 2 |
| 852 | Figure 22 | SBC PWB | WD 2 |
| 853 | Figure 22 | SBC PWB | WD 2 |
| 854 | Figure 22 | SBC PWB | WD 3 |
| 860 | Figure 22 | SBC PWB | WD 3 |
| 861 | Figure 22 | SBC PWB | WD 3 |
| 864 | Figure 22 | SBC PWB | WD 4 |
| 865 | Figure 22 | SBC PWB | WD 4 |
| 866 | Figure 22 | SBC PWB | WD 4 |
| 867 | Figure 22 | SBC PWB | WD 4 |
| 880 | Figure 22 | SBC PWB | WD 4 |
| 881 | Figure 22 | SBC PWB | WD 4 |
| 882 | Figure 22 | SBC PWB | WD 4 |
| 889 | Figure 22 | SBC PWB | WD 4 |
| 905 | Figure 34 | UI control PWB | WD 4 |
| 907 | Figure 34 | UI control PWB | WD 4 |
| 907 | Figure 36 | UI status PWB | WD 4 |
| 908 | Figure 34 | UI control PWB | WD 4 |
| 909 | Figure 34 | UI control PWB | WD 4 |
| 910 | Figure 35 | UI keyboard PWB | WD 4 |
| 910 | - | UI touch screen | WD 4 |
| 943 | Figure 34 | UI control PWB | WD 4 |
| 945 | Figure 34 | UI control PWB | WD 4 |
| 966 | Figure 3 | Finisher communications connector | WD 19, WD 23 |
| 973 | Figure 20 | Main drive module | WD 7 |
| 977 | Figure 20 | Main drive module | WD 8 |

Fax Connector PWB

Location: PL 20.05 Item 2

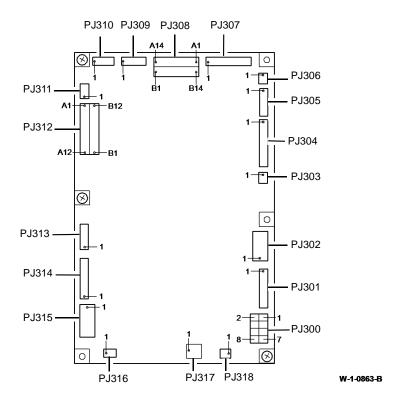


Figure 1 2K LCSS PWB

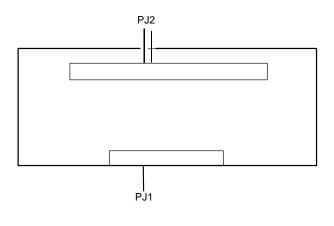
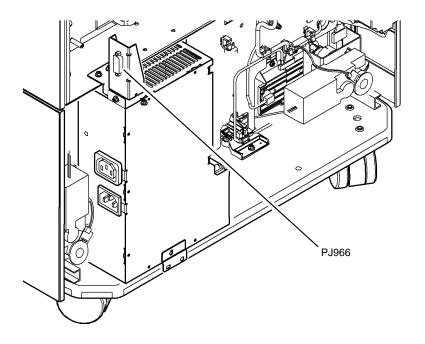
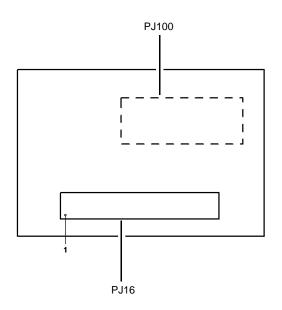


Figure 2 Fax connector PWB

W-10898-A

Location: PL 3.22 Item 18





W-1-1306-A W-1-0897-A

Figure 3 Finisher connector

Figure 4 Foreign device interface PWB

HVPS

Location: PL 1.10 Item 5

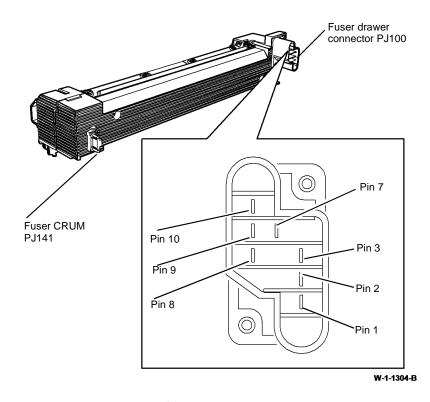
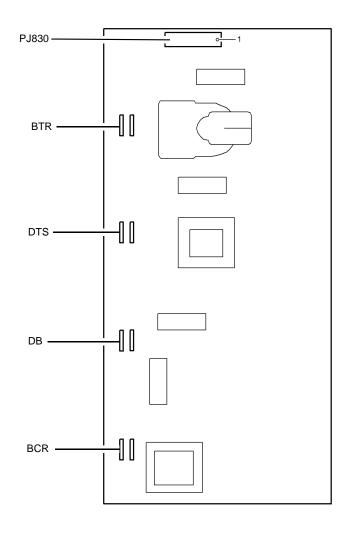


Figure 5 Fuser module



W-1-0893-A

Figure 6 HVPS

Location: PL 80.26 Location: PL 10.11, PL 10.12 and PL 90.17

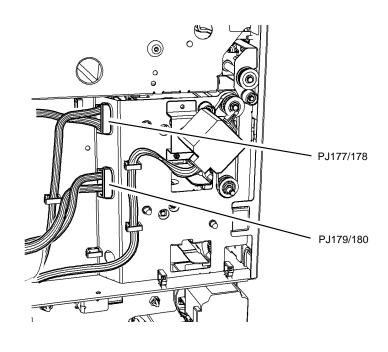


Figure 7 In-line connectors



W-1-1166-A

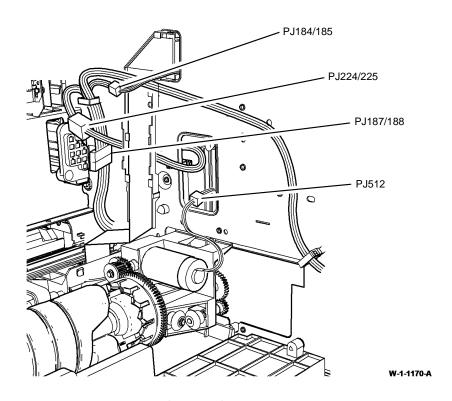
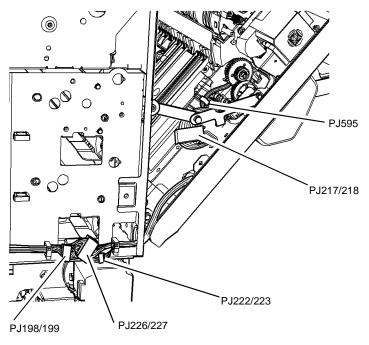


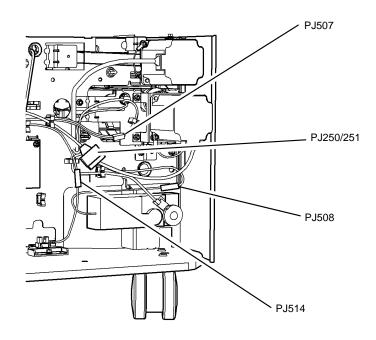
Figure 8 In-line connectors

Location: PL 70.21



W-1-1165-A

Figure 9 In-line connectors

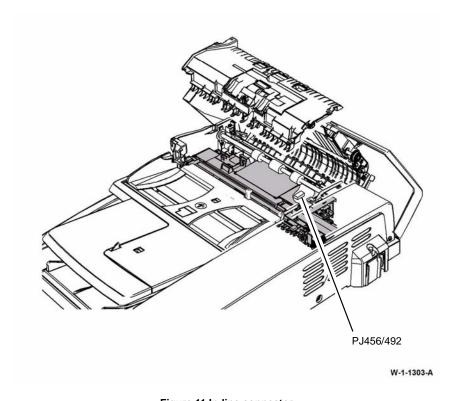


W-1-1302-A

Figure 10 In-line connectors

Location: PL 5.18





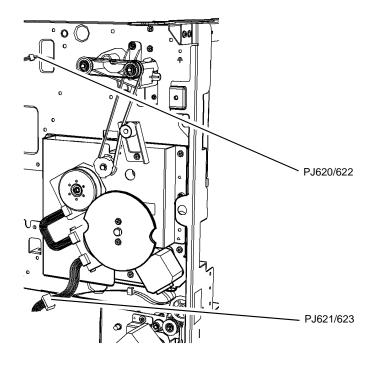
PJ487/488
PJ483/484
PJ485/486
W-1-1167-A

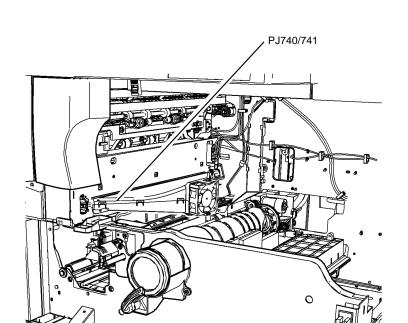
Figure 11 In-line connector

Figure 12 In-line connector

In-line Connector PJ740/741

Location: PL 40.15





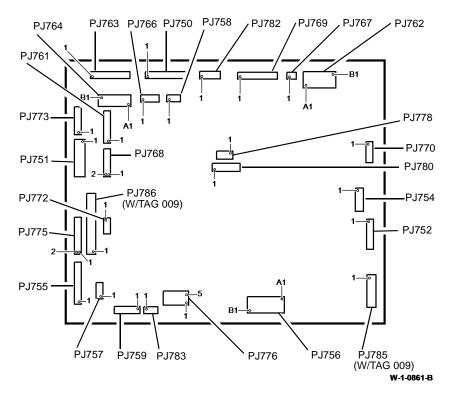
W-1-1380-A

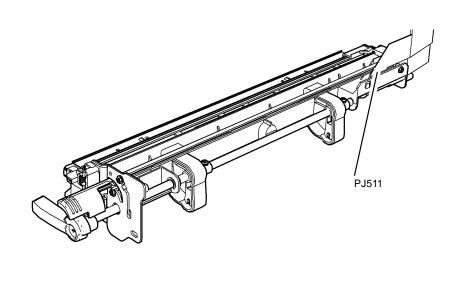
W-1-1312-A

Figure 13 In-line connector

Figure 14 In-line connector

Location: PL 60.35 Item 1





W-1-0953-A

Figure 15 IOT PWB

Figure 16 LED print head module

LVF BM PWB

Location: PL 12.425 Item 1

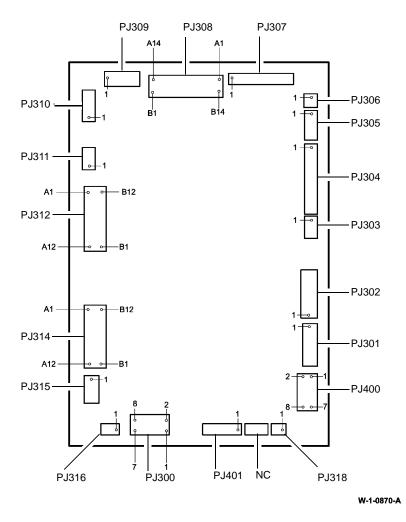


Figure 17 LVF PWB

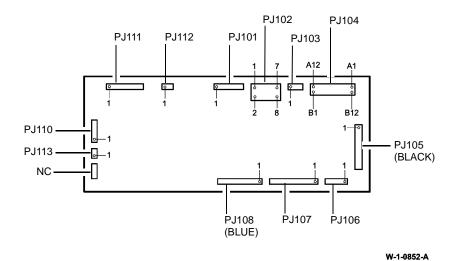
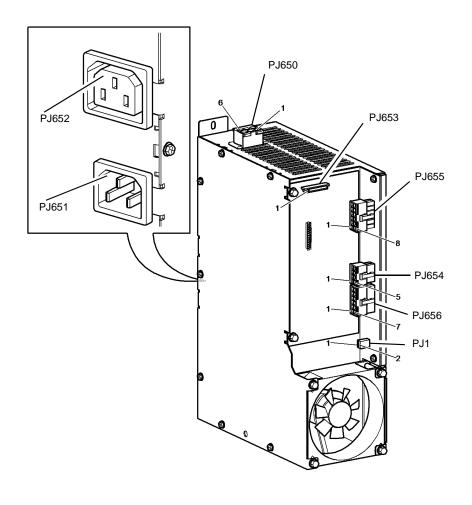


Figure 18 LVF BM PWB

Main Drive Module

Location: PL 40.15 Item 1



PJ102
PJ973 Print cartridge motor PJ977 Registration motor (MOT93-045)

Registration motor (MOT80-040)

W-1-0958-A

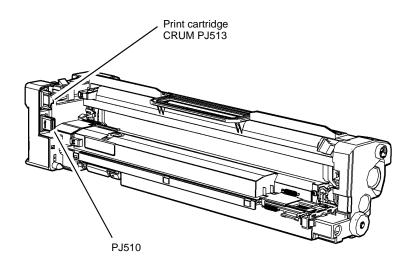
Figure 20 Main drive module

W-1-0862-A

Figure 19 LVPS

SBC PWB

Location: PL 3.22 Item 3



W-1-1305-A

Figure 21 Print cartridge

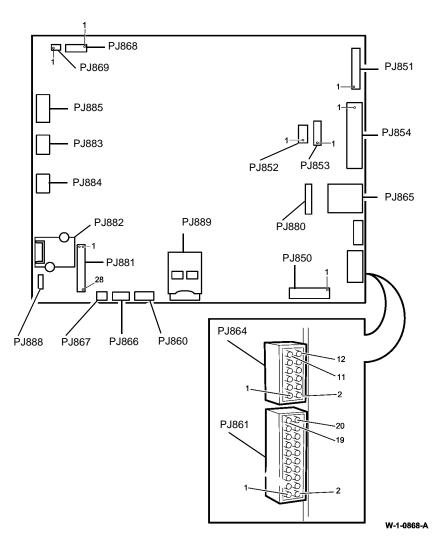
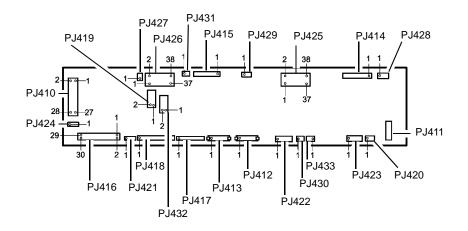
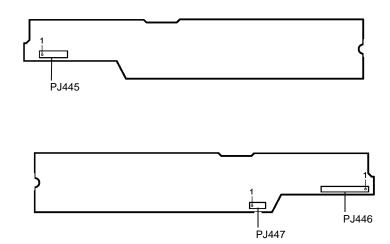


Figure 22 SBC PWB

Location: PL 60.20 Item 4

Location: PL 60.25 Item 4



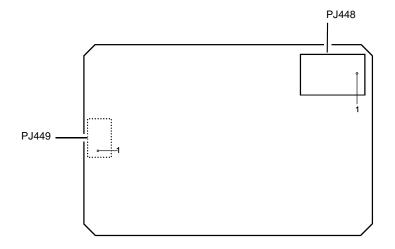


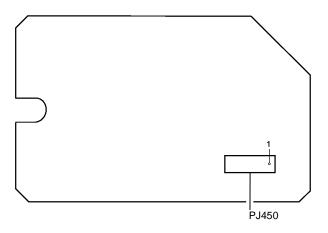
W-1-0860-A W-1-0858-A

Figure 23 Scanner PWB

Figure 24 Scanner CCD PWB







W-1-0872-A W-1-0859-A

Figure 25 Scanner LED drive PWB

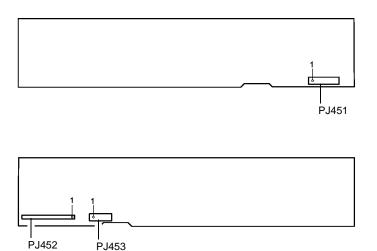
Figure 26 Scanner LED lamp PWB

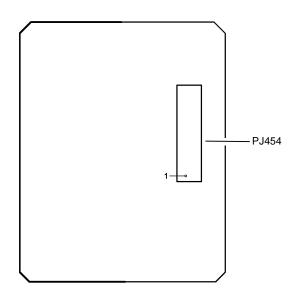
Wiring Data

PJ Locations

Location: PL 60.30 Item 4

Location: PL 60.30





W-1-0855-A

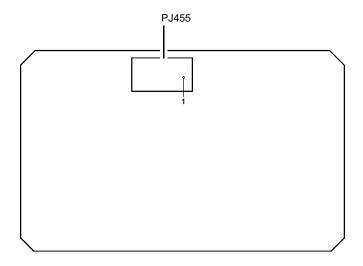
Figure 28 Side 2 LED drive PWB

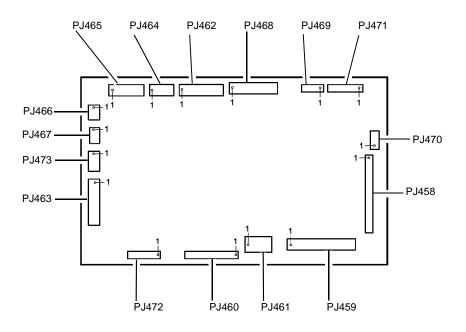
Figure 27 Side 2 CCD PWB

W-1-0856-A

SPDH PWB

Location: PL 5.10 Item 5





W-1-0857-A W-1-0853-A

Figure 29 Side 2 LED lamp PWB

Figure 30 SPDH PWB

Tray 2 Paper Size Sensing PWB

Location: PL 70.10 Item 18

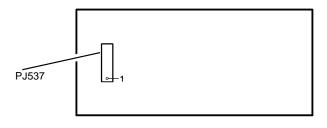


Figure 31 Tray 1 paper size sensing PWB

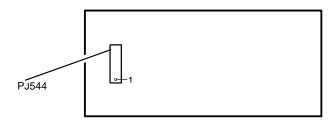


Figure 32 Tray 2 paper size sensing PWB

Wiring Data
PJ Locations

W-1-1072-A

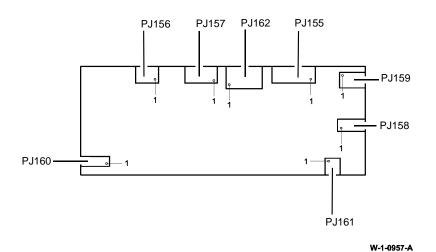
W-1-1073-A

Location: PL 70.21 Item 2

Xerox® WorkCentre® 5945 Family

UI Control PWB

Location: PL 2.10 Item 6



PJ907 PJ909
PJ943 PJ905

PJ908

PJ130

PJ81

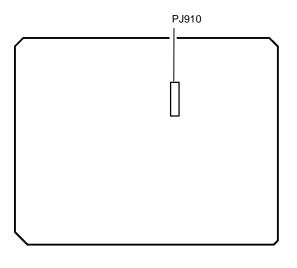
W-1-0865-A

Figure 33 Tray 4 Control PWB

Figure 34 UI control PWB

Location: PL 2.10 Item 9

Location: PL 2.10 Item 7



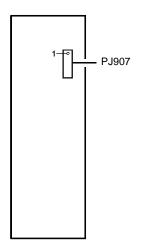


Figure 35 UI keyboard PWB

Figure 36 UI status PWB

W-1-0854-A

W-1-0869-A

Wiring Diagrams

Purpose

Wiring diagrams are an aid to trace wiring faults. Wiring diagrams are used to complement the circuit diagram in the relevant RAP.

Introduction

```
The main PWB connections are in the wiring diagrams that follow:
```

```
IOT PWB, bypass tray, TAR sensors, tray 1 and 2 sensors, WD 5.
```

IOT PWB, tray 1 and 2 feed motors, tray 3 sensors, WD 6.

IOT PWB, tray 3 motors, main drive module, WD 7.

IOT PWB, invert motor, duplex motor, registration motor, WD 8.

IOT PWB, LVPS, fuser, print cartridge, WD 9.

IOT PWB, HVPS, SBC PWB, WD 10.

IOT PWB, horizontal transport, tray 4 control PWB W/O TAG 009, WD 11.

IOT PWB, LVPS, HVPS, WD 12.

2K LCSS PWB, WD 19, WD 20, WD 21, WD 22.

LVF PWB, WD 23, WD 24, WD 25, WD 26.

LVF BM PWB, WD 27, WD 28, WD 29.

LVPS W/O TAG 008, WD 1.

SBC PWB, WD 2, WD 3, WD 4.

Scanner PWB, WD 16, WD 17.

SPDH PWB, side 2 CCD PWB, scanner PWB, WD 13.

SPDH PWB, WD 15.

SPDH PWB, side 2 CCD PWB, side 2 LED drive PWB, side 2 LED lamp, WD 14.

Tray 4 Control PWB W/O TAG 009, WD 18.

LVPS W/TAG 008, WD 30.

IOT PWB, tray 4 control W/TAG 009, WD 31.

The diagrams have the features that follow:

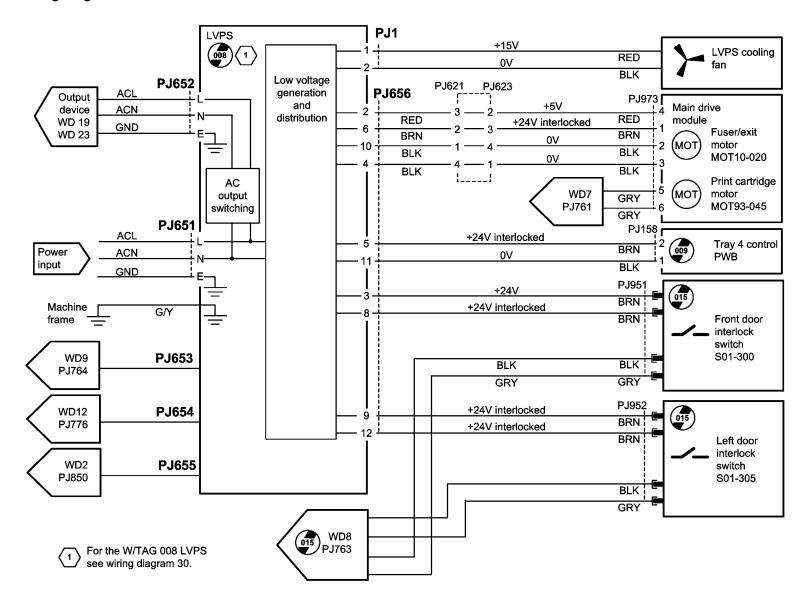
- The connections on the PWBs are in PJ numerical sequence where possible.
- The complete component to PWB wiring is shown. All interconnecting connectors are shown, in part or in whole. Connectors shown in part have reference to other wiring diagrams as necessary.
- Where necessary, components have references to show additional connections to them.
- Straight through tracks on the PWBs are shown.
- The pin numbers shown depict the location of the pins as marked on the PWB. If the pin numbers marked on a harness connector differ, the PWB pin numbers take precedence.

How to Use Wiring Diagrams

NOTE: All Adjustments, Repairs and Part List references are shown in the relevant RAP.

Wiring diagrams are used in conjunction with the circuit diagrams and their supporting RAPs. The steps that follow should be used:

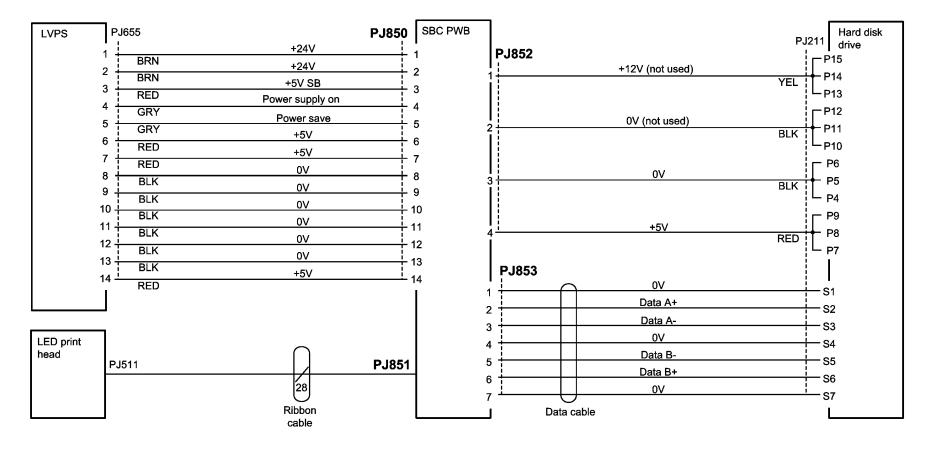
- 1. From the circuit diagram in the RAP, note the name of the PWB.
- 2. Note the component and its harness connection on the PWB.
- 3. Go to the relevant wiring diagram.
- 4. Locate the connector on the PWB.
- Assess the dependency of other components in the same harness connected to the PWB.
- 6. Isolate and repair the wiring fault.



TW-1-0177-B

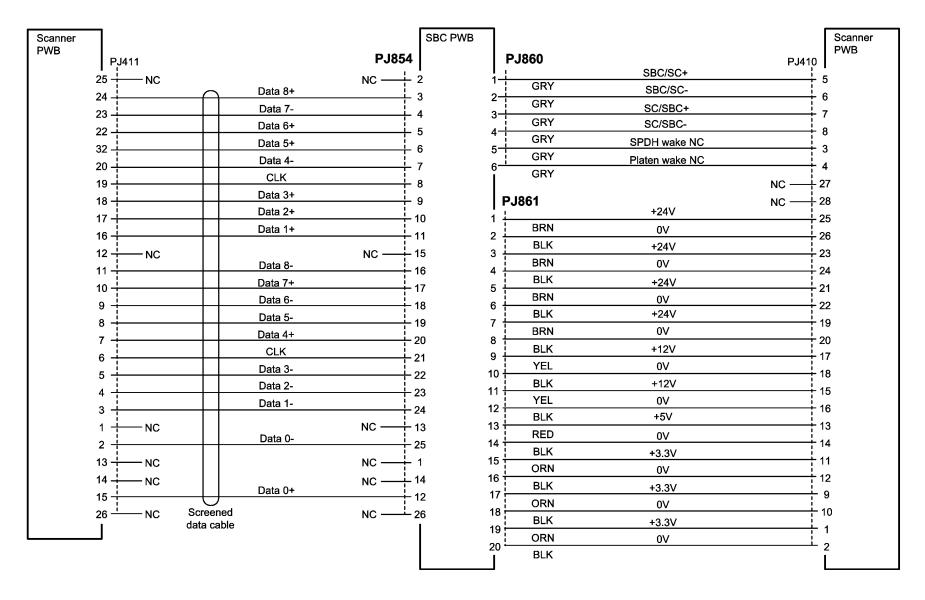
Figure 1 Wiring Diagram 1

Wiring Diagram 2



TW-1-0173-A

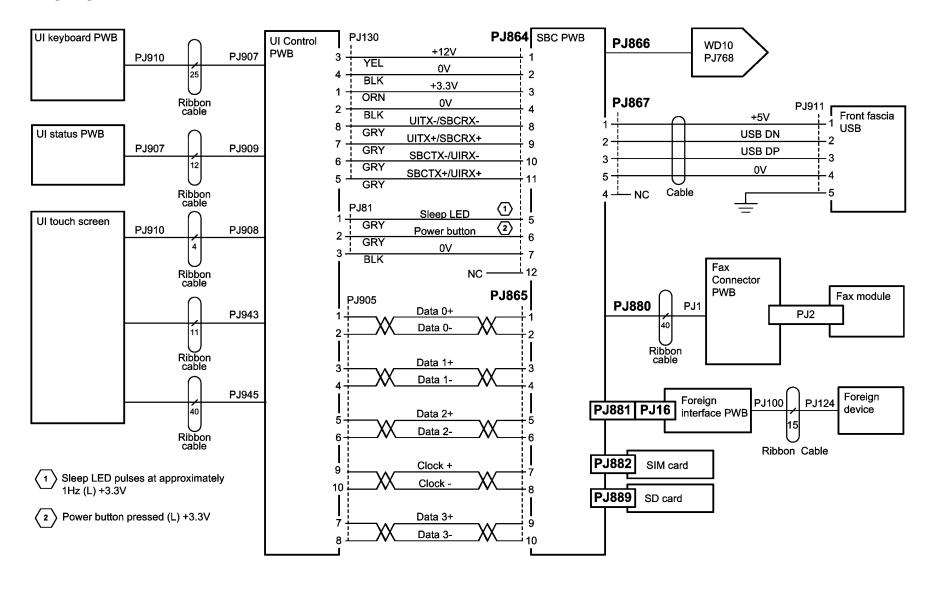
Figure 2 Wiring Diagram 2



TW-1-0174-A

Figure 3 Wiring Diagram 3

Wiring Diagram 4



TW-1-0175-B

Figure 4 Wiring Diagram 4

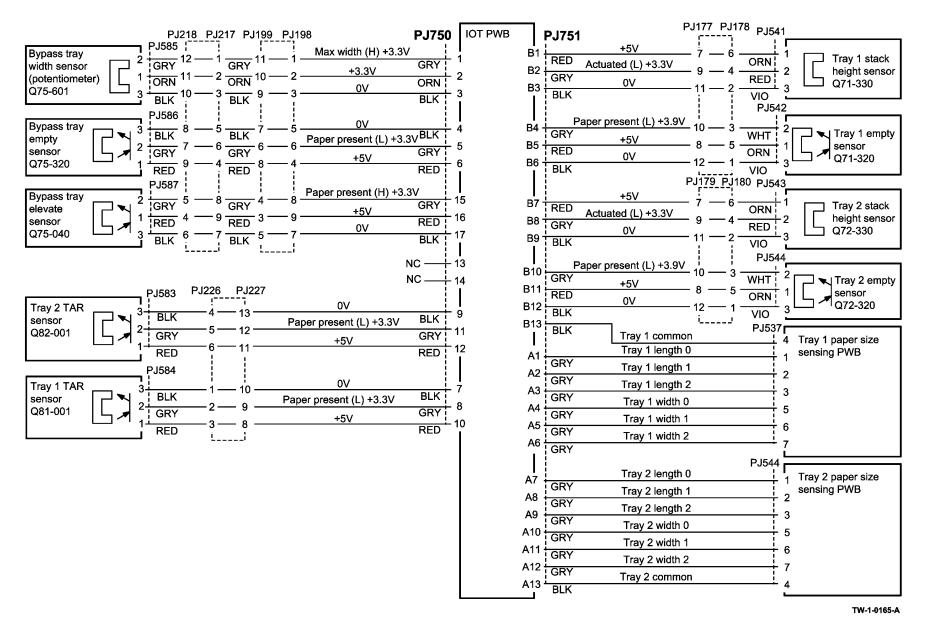
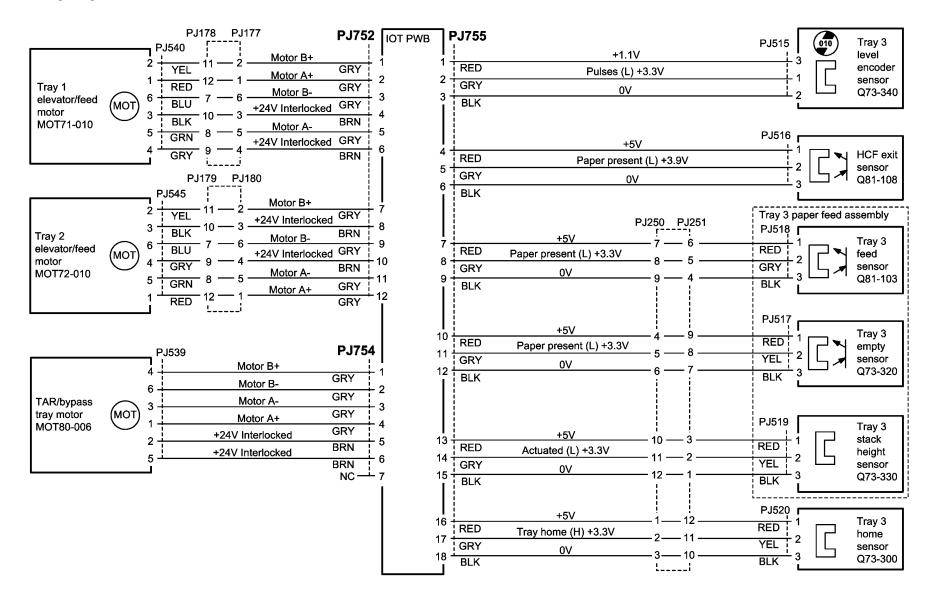


Figure 5 Wiring Diagram 5



TW-1-0166-B

Figure 6 Wiring Diagram 6

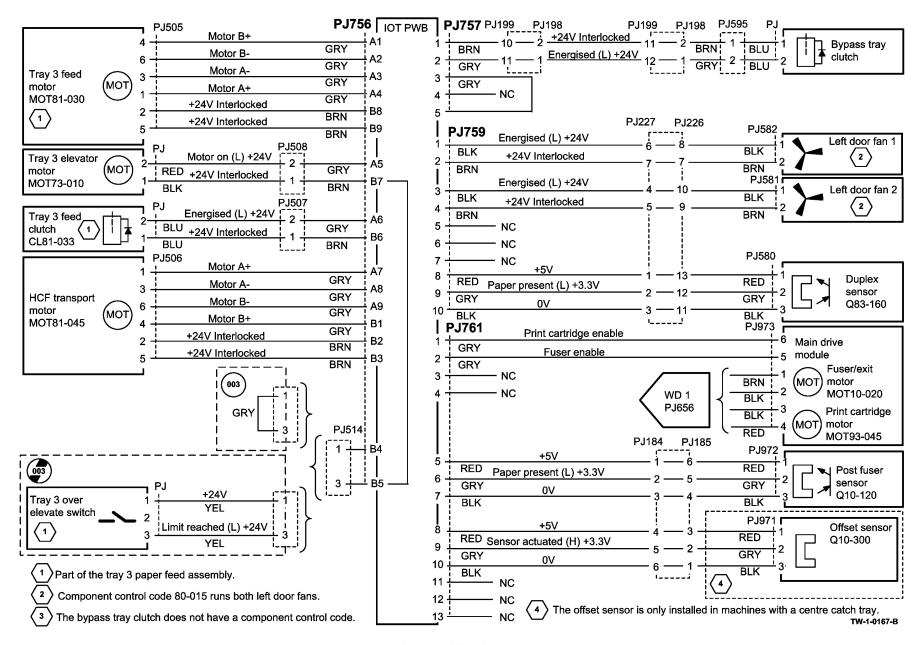
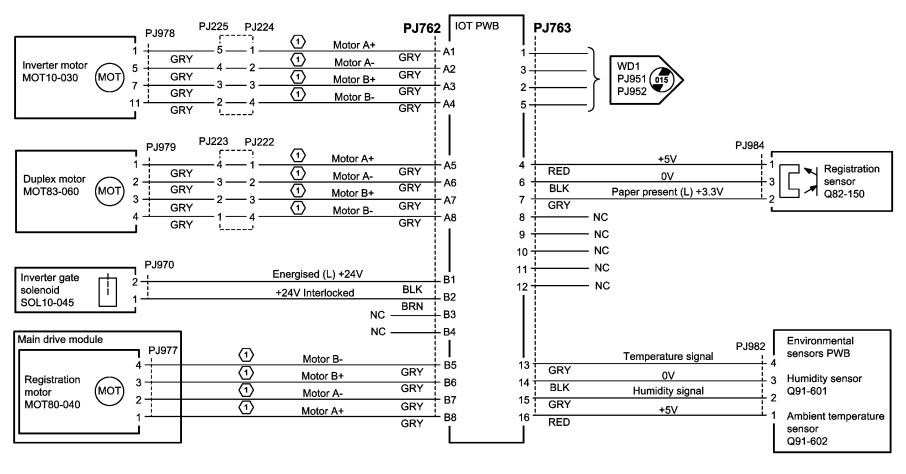


Figure 7 Wiring Diagram 7



1 Motor on pulses (H) +24V

TW-1-0168-B

Figure 8 Wiring Diagram 8

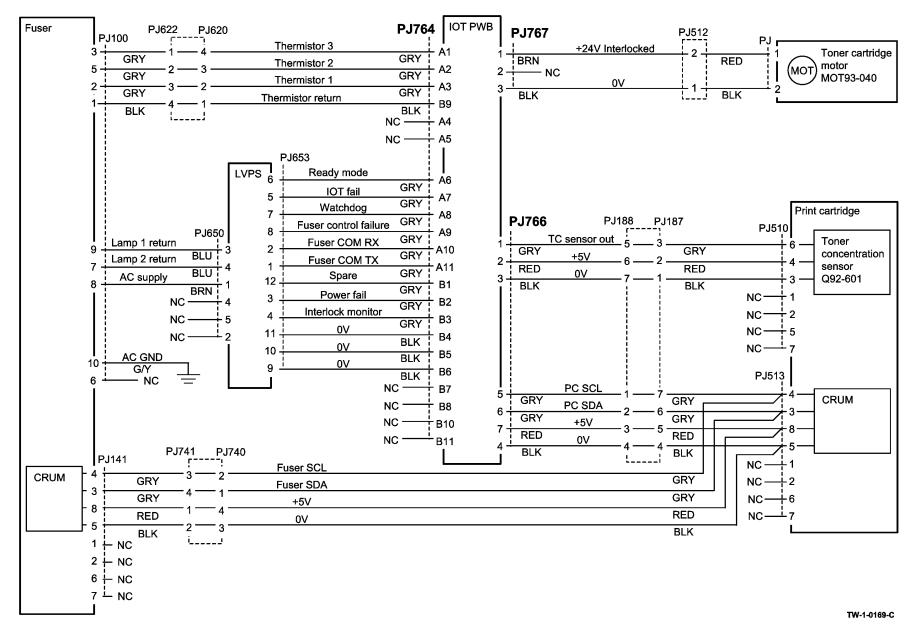
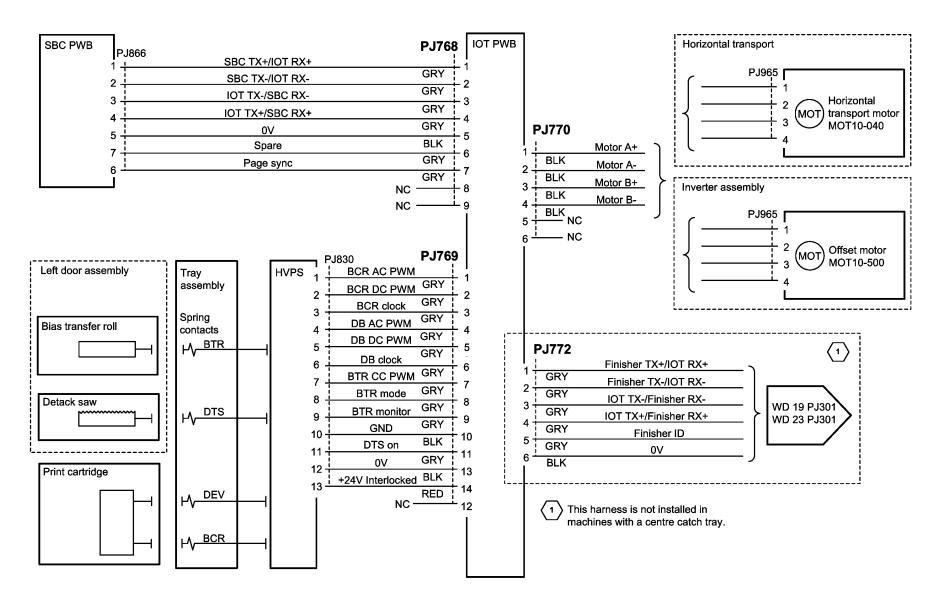


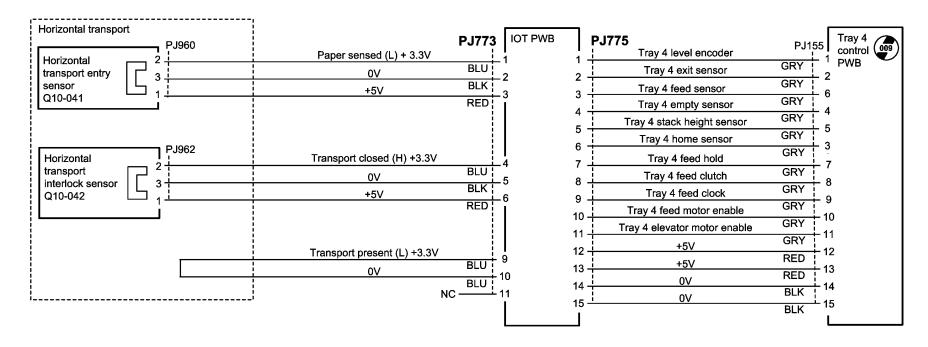
Figure 9 Wiring Diagram 9



TW-1-0170-A

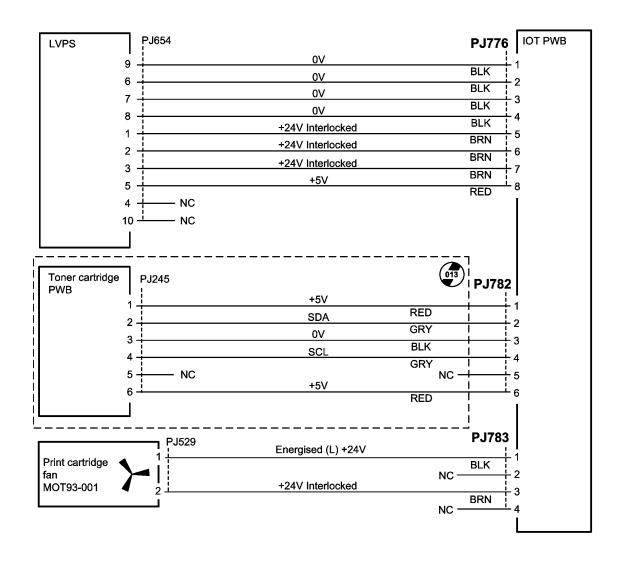
Figure 10 Wiring Diagram 10

Wiring Diagram 11



TW-1-0171-B

Figure 11 Wiring Diagram 11



TW-1-0172-B

Figure 12 Wiring Diagram 12

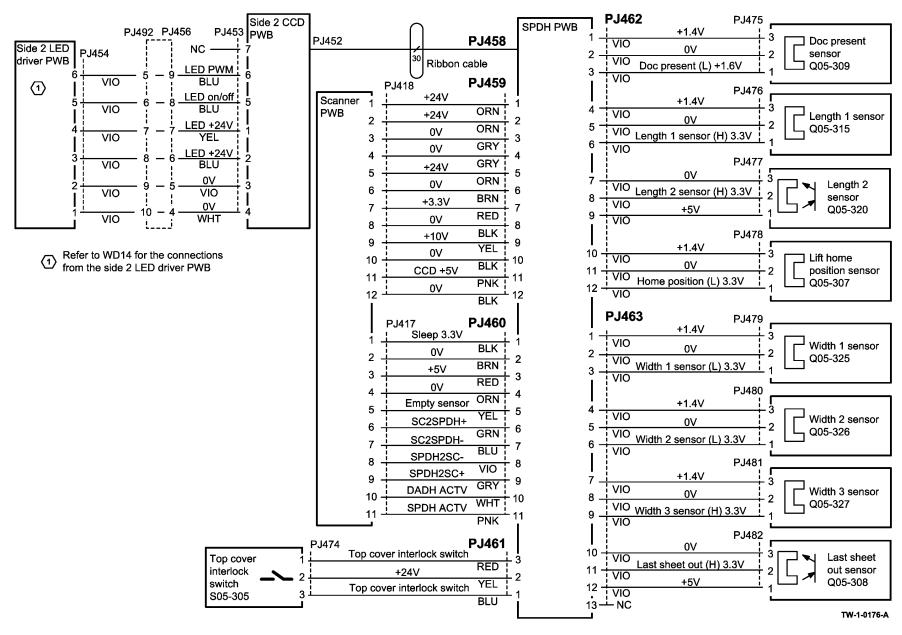


Figure 13 Wiring Diagram 13

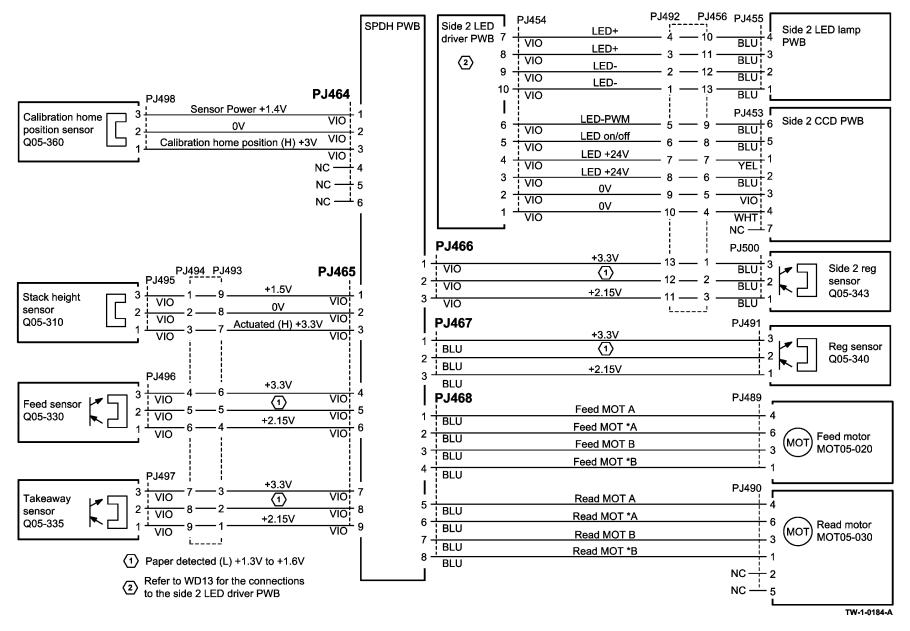
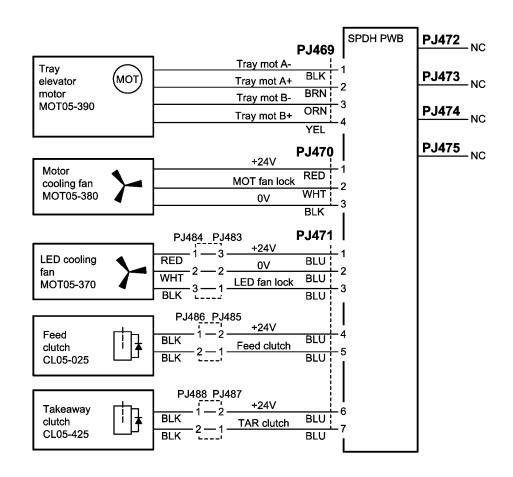


Figure 14 Wiring Diagram 14



TW-1-0183-A

Figure 15 Wiring Diagram 15

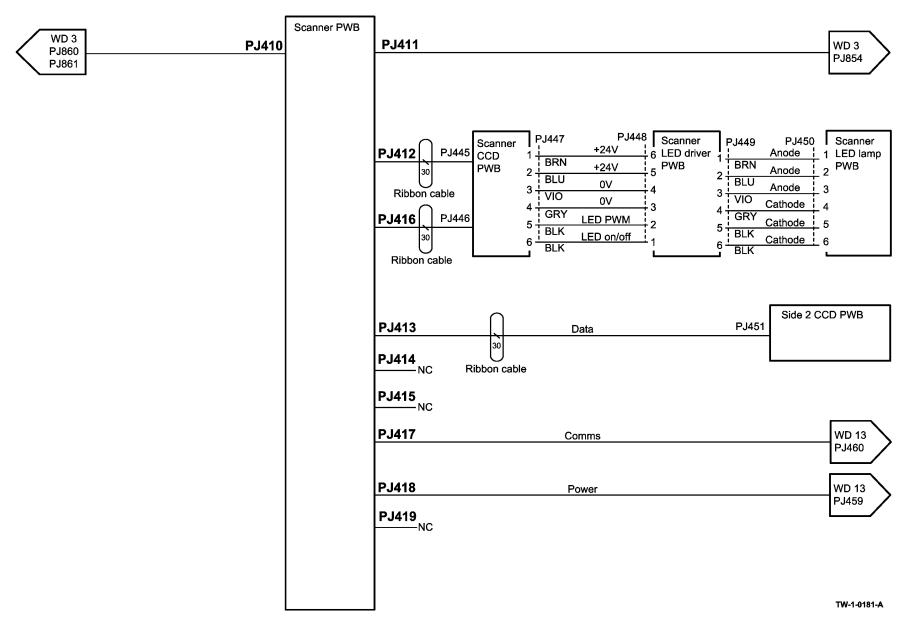
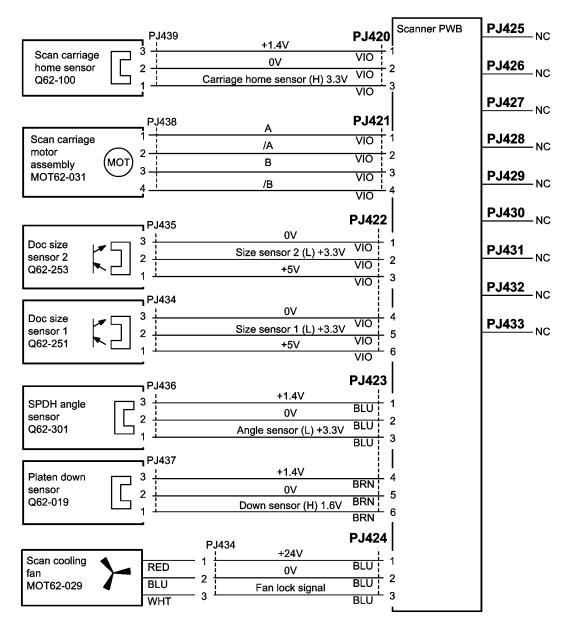


Figure 16 Wiring Diagram 16



TW-1-0182-A

Figure 17 Wiring Diagram 17

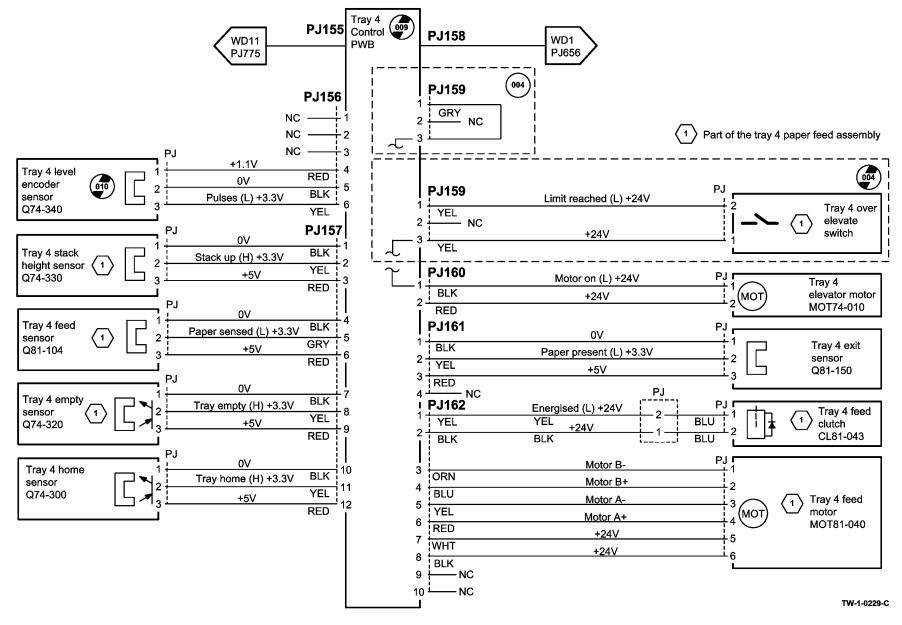


Figure 18 Wiring Diagram 18

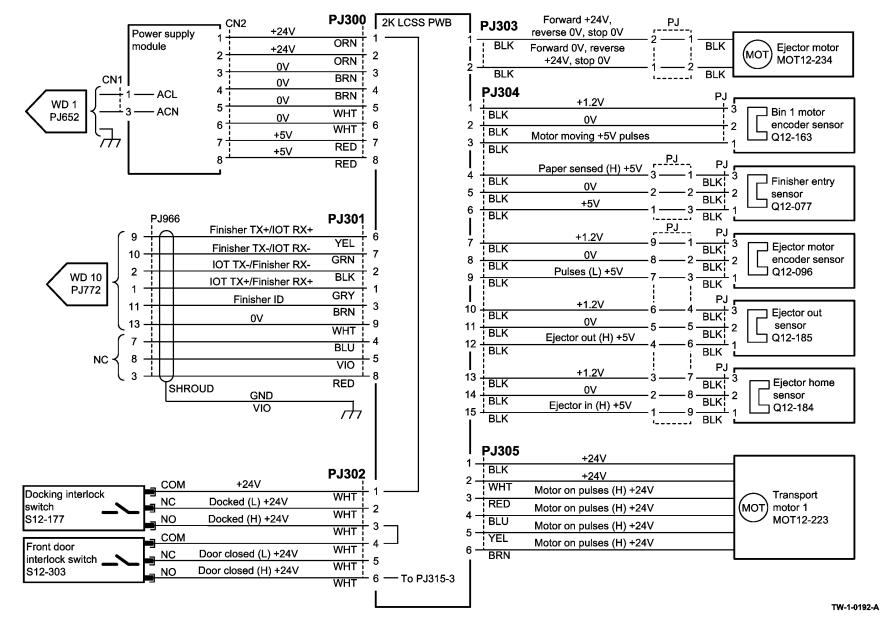


Figure 19 Wiring Diagram 19

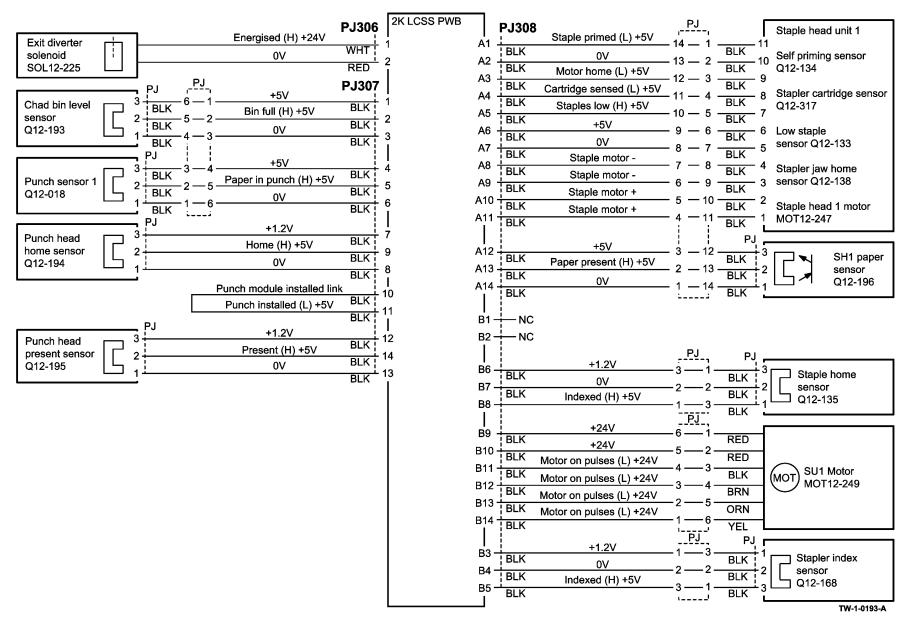
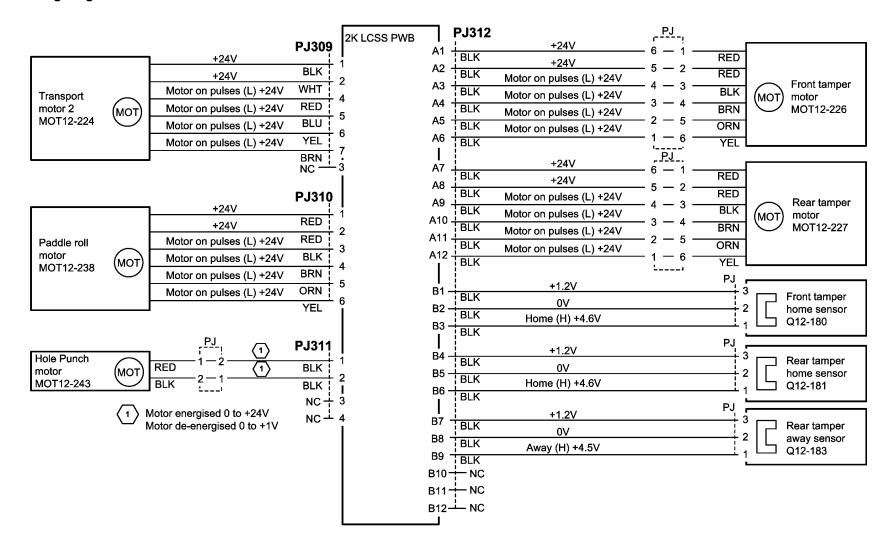
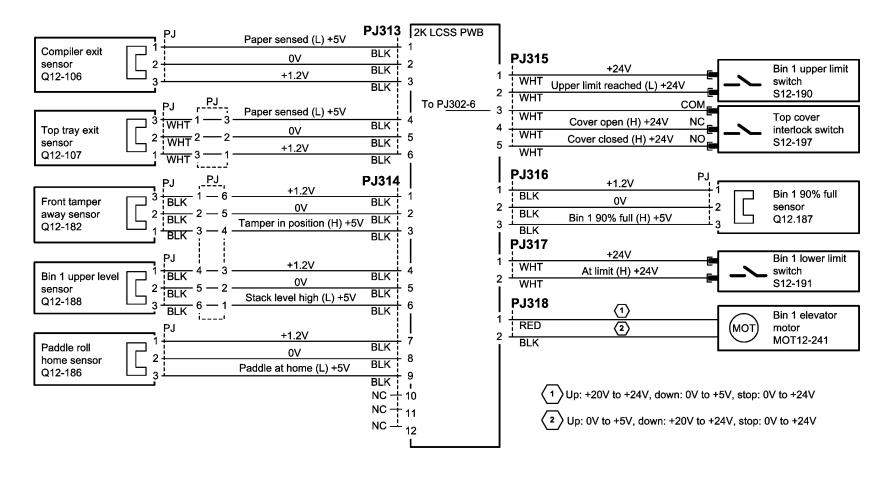


Figure 20 Wiring Diagram 20



TW-1-0194-A

Figure 21 Wiring Diagram 21



TW-1-0195-A

Figure 22 Wiring Diagram 22

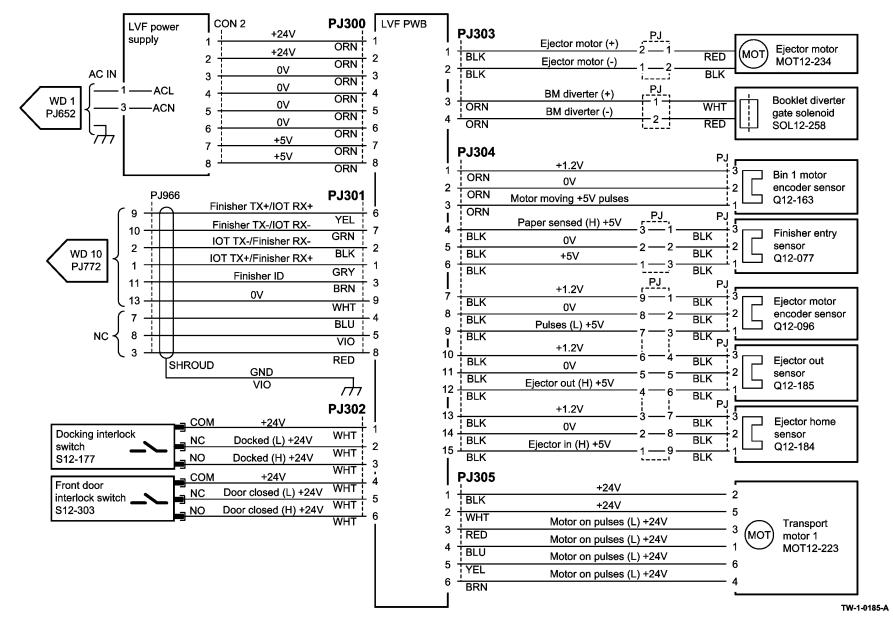
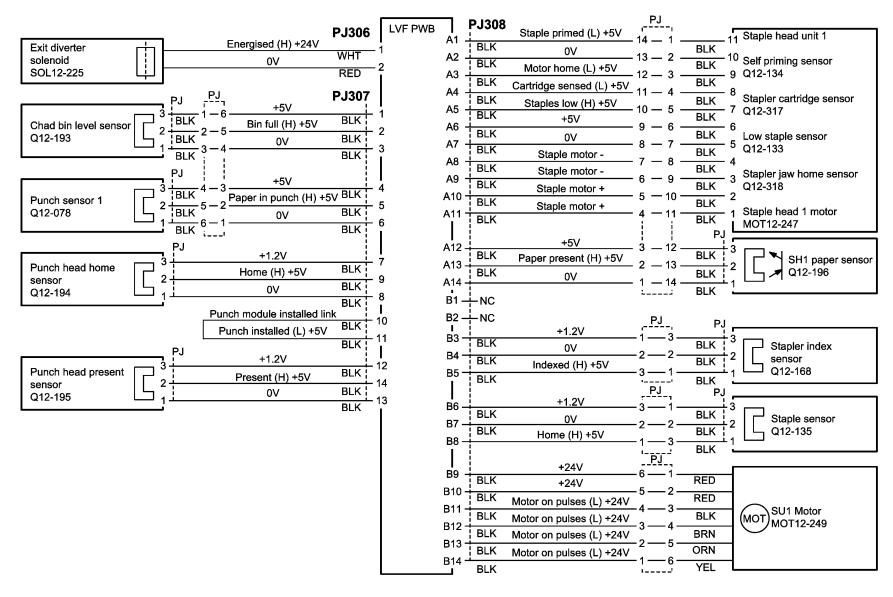


Figure 23 Wiring Diagram 23

Xerox® WorkCentre® 5945 Family



TW-1-0186-A

Figure 24 Wiring Diagram 24

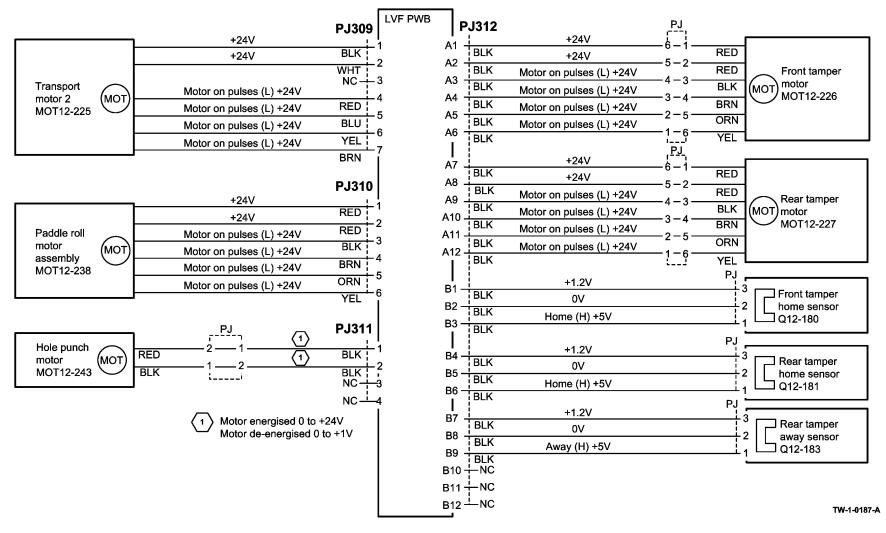


Figure 25 Wiring Diagram 25

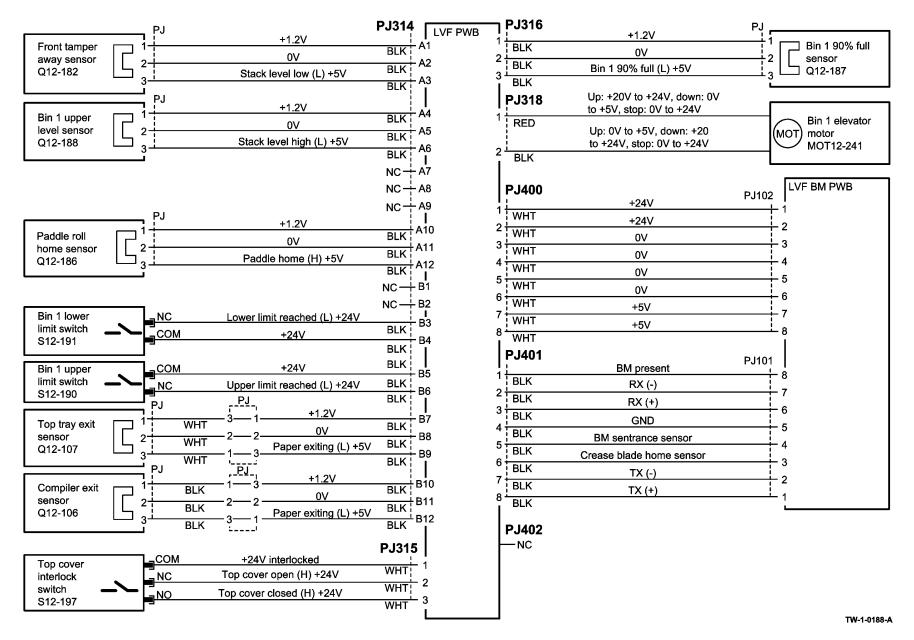
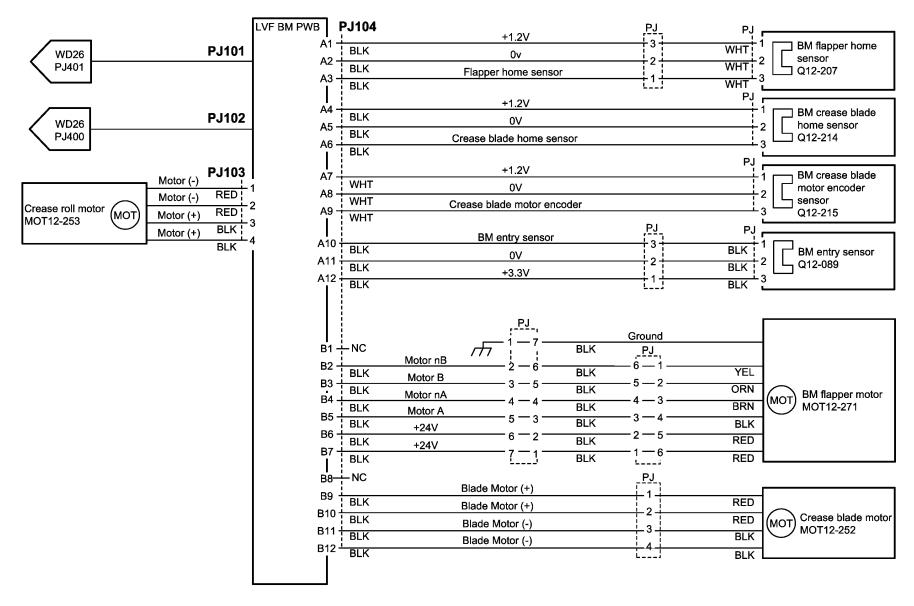


Figure 26 Wiring Diagram 26



TW-1-0189-A

Figure 27 Wiring Diagram 27

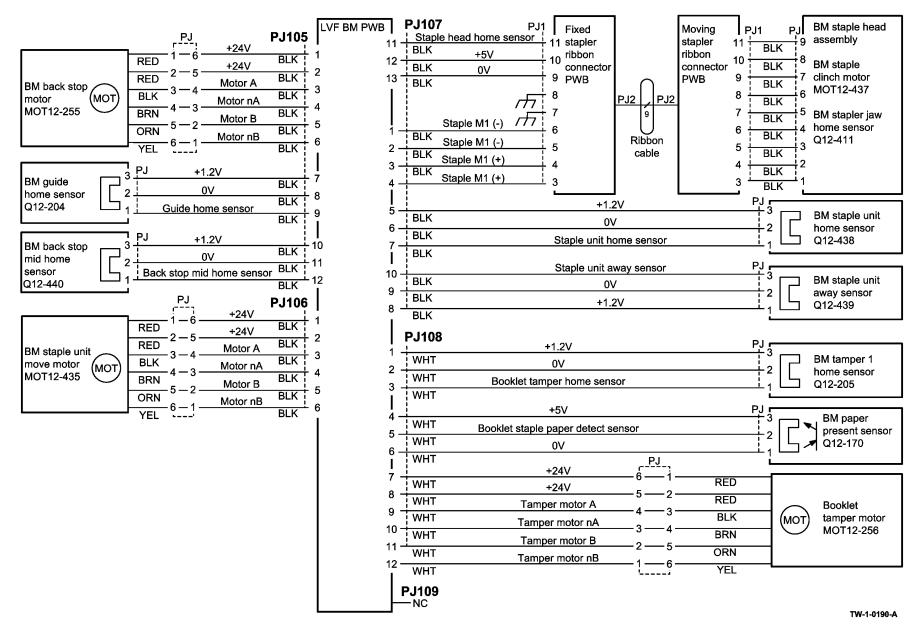
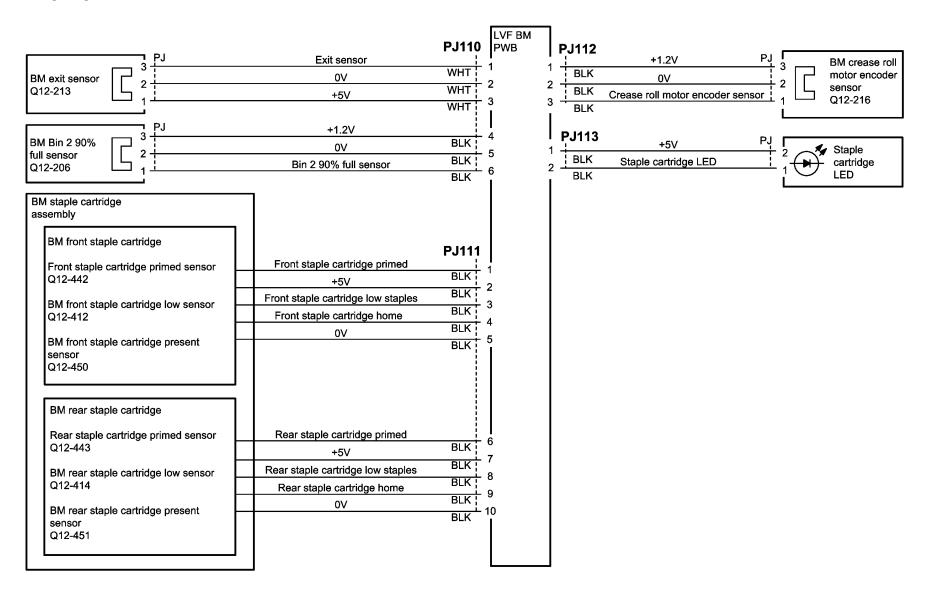


Figure 28 Wiring Diagram 28



TW-1-0191-A

Figure 29 Wiring Diagram 29

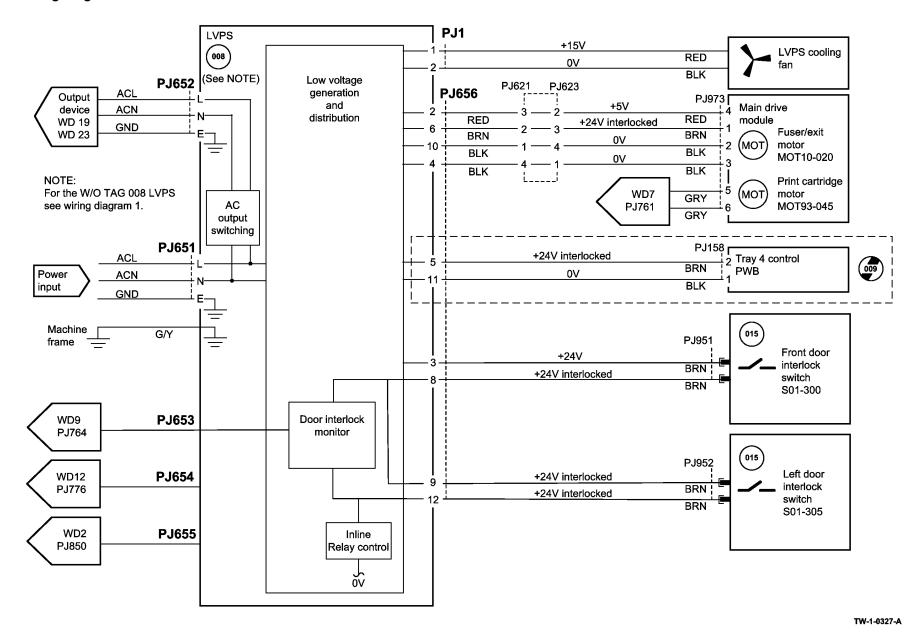
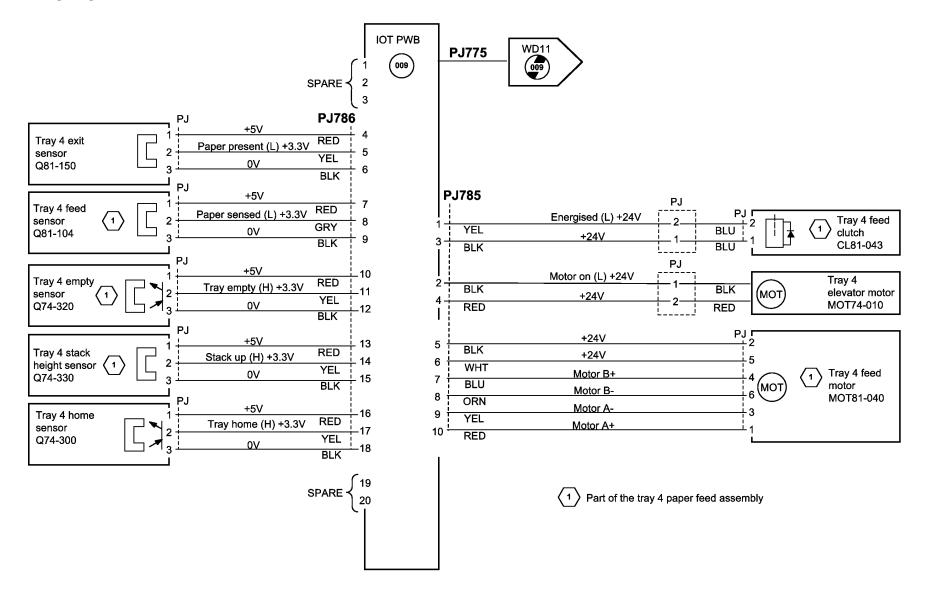


Figure 30 Wiring Diagram 30



TW-1-0328-A

Figure 31 Wiring Diagram 31

8 Accessories

ACC 1 Foreign Device Checkout

Procedure

Perform the 303E Foreign Device PWB Fault RAP.



X CONTRIBUTION FOR Incidents Involving a Xerox Broad for Incidents Involving Incident I

| | For incidents in Canada: | NO SHA | EH&S Office L | EH&S Office Use ONLY |
|-------------------------------|--|---|--------------------------------------|---|
| <u>.</u> | PIPEDA consent given | ersonal Information Prot | EH&S Incident | Reference Number: ic Documents Act." |
| | For incidents in the EU: Safe Harbour Complaint | ☐ YES ☐ NO | | |
| *Date Of Incid | *Date Of Incident (mm / dd / yyyy): | | | |
| Product Description | escription | | | |
| *Model No. o | *Model No. or Product Name: | | | |
| Product Serial Number: | al Number: | Š | Serial Number(s) of Accessory (ies): | Accessory (ies): |
| Installation Date: | ate: | T T | Total Copy Meter: | |
| Date of last s | Date of last service maintenance: | - | | |
| List damaged | List damaged and affected part(s) of the machine by description and part number: | chine by description a | nd part number: | |
| | *Description | | | Part Number |
| *Location of | *Location of product and affected part(s): | | | |
| Customer Ider *Customer Name: | Customer Identification *Customer Name: | * | *Name of Customer Contact Person: | Contact Person: |
| *Address: | | E-mail: | * | *Telephone: |
| | | | Ę | Fax: |
| Customer | Customer Service Engineer Identification | cation | | |
| *Name (require | *Name (required for Xerox serviced equipment): | Employee: | | E-mail: |
| Location: | | *Phone (required for Xerox serviced equipment): | ox serviced equipmer | ու): |
| Individual | Individual Providing Notification | | | |
| *Name: | *Title: | | *Telephone Number: | Number: |
| *Organization: | 20 | | E-Mail: | |
| Mailing Address: | dress: | | *Date Rep | *Date Report Submitted: |
| | | | | |

^{*} Required information is preceeded by asterisk, title shown in red, with a tan wash background

EHS 700 - Health & Safety Incident Report Form for Incidents Involving a Xerox Product

CONFIDENTIAL (when filled in)



| *Description of Incident: (Check all that apply) Smoke Describe quantity and duration of smoke: |
|---|
| ☐ Fire with open flames seen ☐ Electric shock to operator or service representative ☐ Physical injury/illness to operator or service representative Describe: |
| ☐ Other, describe: MANDATORY DESCRIPTION (above): Provide a detailed description of all valid factors that may have contributed to the incident. Hardware involved in the incident should be preserved and retained for further investigation should investigation be deemed necessary by EH&S. LIST INCIDENT DESCRIPTIONS AND SUPPORT DIAGRAMS/DATA INCLUDED OR ATTACHED: Contributed to the incident. Hardware involved in the incident should be preserved and retained for further investigation should investigation be deemed necessary by EH&S. LIST INCIDENT DESCRIPTIONS AND SUPPORT DIAGRAMS/DATA INCLUDED OR ATTACHED: Contributed to the incident. Hardware involved in the incident should be preserved and retained for further investigation. Contributed to the incident. Hardware involved in the incident should be preserved and retained for further involved. Contributed to the incident. Hardware involved in the incident should be preserved and retained for further involved in the incident. Contributed to the incident. Hardware involved in the incident should be preserved and retained for further involved in the incident should be preserved and retained for further involved in the incident should be preserved. Contributed to the incident should be preserved and retained for further involved in the incident should be preserved and the incident should b |
| *Any damage to customer property? No 🗌 Yes 🔲 Describe: |
| *Did external emergency response provider(s) such as a fire department, ambulance, etc. respond? No |
| Apparent cause of incident (identify part that is suspected to be responsible for the incident) |
| *Preliminary actions taken to mitigate incident: |
| Instructions: E-mail or fax both pages of this completed form to EH&S: e-mail: usa.product.incident@xerox.com or fax 585-422-8217 [Intelnet 8*222-8217] |

^{*} Required information is preceeded by asterisk, title shown in red with a tan wash background



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