

WorkCentre 7132

Service Documentation

WorkCentre 7132

705P01181 (EDOC/SGS)

Revision

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WARNING

This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions documentation, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to subpart B of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to correct the interference.

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About this Manual

This Service Manual is part of the multinational documentation system for

WorkCentre 7132. The Service Documentation is used in order to diagnose machine malfunctions, adjust components and has information which is used to maintain the product in superior operating condition. It is the controlling publication for a service call. Information on its use is found in the Introduction of the Service Documentation.

This manual contains information that applies to **NASG (XC) and ESG (XE)** copiers.

Service Manual Revision

The Service Manual will be updated as the machine changes or as problem areas are identified.

Organization

This Service Manual is divided into eight sections. The titles of the sections and a description of the information contained in each section are contained in the following paragraphs:

Section 1: Service Call Procedures

This section contains procedures that determine what actions are to be taken during a service call on the machine and in what sequence they are to be completed. This is the entry level for all service calls.

Section 2: Status Indicator RAPs

This section contains the diagnostic aids for troubleshooting the Fault Code and non-Fault Code related faults (with the exception of image quality problems).

Section 3: Image Quality

This section contains the diagnostic aids for troubleshooting any image quality problems, as well as image quality specifications and image defect samples.

Section 4: Repairs/Adjustments

This section contains all the Adjustments and Repair procedures.

Repairs

Repairs include procedures for removal and replacement of parts which have the following special conditions:

When there is a personnel or machine safety issue.

When removal or replacement cannot be determined from the exploded view of the Parts List.

When there is a cleaning or a lubricating activity associated with the procedure.

When the part requires an adjustment after replacement.

When a special tool is required for removal or replacement.

Use the repair procedures for the correct order of removal and replacement, for warnings, cautions, and notes.

Adjustments

Adjustments include procedures for adjusting the parts that must be within specification for the correct operation of the system.

Use the adjustment procedures for the correct sequence of operation for specifications, warnings, cautions and notes.

Section 5: Parts Lists

This section contains the Copier/Printer Parts List.

Section 6: General Procedures/Information

This section contains General Procedures, Diagnostic Programs, and Copier/Printer Information.

Section 7: Wiring Data

This section contains drawings, lists of plug/jack locations, and diagrams of the power distribution wire networks in the machine. This section also contains the Block Schematic Diagrams.

Section 8: Options and Accessories

This section contains installation information for option and accessory.

How to Use this Documentation

The Service Call Procedures in Section 1 describe the sequence of activities used during the service call. The call **must** be entered using these procedures.

Use of the Circuit Diagrams

All wirenets are shown on the Circuit Diagrams (CDs). Power distribution wirenets are shown in Section 7 (Wiring Data) of the Service Manual. The power distribution wirenets on the CDs will end at the terminal board for the power being distributed. Find the wirenet for that power and locate the terminal board on the wirenet. Use the wirenet to troubleshoot any power distribution wiring not shown on the CD.

Use of the Block Schematic Diagrams

Block Schematic Diagrams (BSDs) are included in Section 7 (Wiring Data) of the Service Manual. The BSDs show the functional relationship of the electrical circuitry to any mechanical, or non-mechanical, inputs or outputs throughout the machine. Inputs and outputs such as motor drive, mechanical linkages, operator actions, and air flow are shown. The BSDs will provide an overall view of how the entire subsystem works.

It should be noted that the BSDs no longer contain an Input Power Block referring to Chain 1. It will be necessary to refer to the Wirenets in order to trace a wire back to its source.

Symbology and Nomenclature

The following reference symbols are used throughout the documentation.

Warnings, Cautions, and Notes

Warnings, Cautions, and Notes will be found throughout the Service Documentation. The words **WARNING** or **CAUTION** may be listed on an illustration when the specific component associated with the potential hazard is pointed out; however, the message of the **WARNING** or **CAUTION** is always located in the text. Their definitions are as follows:

WARNING

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

CAUTION

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

NOTE: A Note is used whenever it is necessary to highlight an operating or maintenance procedure, practice, condition, or statement.

Machine Safety Icons

The following safety icons are displayed on the machine:

WARNING

This machine contains an invisible laser. There is no visual indication that the laser beam is present. During servicing, the machine is a Class 3B product because of the invisible laser. the laser beam could cause eye damage if looked at directly. Service procedures must be followed exactly as written without change. The service representative must observe the established local laser safety precautions when servicing the machine. Do not place tools with a reflective surface in the area of the ROS opening. Do not look in the area of the ROS window if the power is On and the laser is energized.

The following symbol and statement appear on a label in the machine. The symbol by itself, or the symbol and the statement may also appear in the service documentation and in the training program. When this symbol appears, the service representative is warned that conditions exist that could result in exposure to the laser beam.

WARNING

Do not try to bypass any laser interlocks for any reason. Permanent eye damage could result if the laser is accidentally directed into your eye.



Figure 1 Laser Hazard Symbol

Laser Hazard Statement

DANGER INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION

The use of controls or adjustments other than those specified in the Laser Safety Training Program may result in an exposure to dangerous laser radiation.

For additional information, review the Laser Safety Training program.

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



Figure 2 Customer Access Label

This symbol indicates that a surface can be hot. Use caution when reaching in the machine to avoid touching the hot surfaces.



Figure 3 Heated Surface Label

Danger label indicates where electrical currents exist when the machine is closed and operating. Use caution when reaching in the machine.



Figure 4 Shock Hazard Label

These symbols indicate components that may be damaged by Electrostatic Discharge (ESD).



0700002A-RAP

Figure 5 ESD warning Label

Electrostatic Discharge (ESD) Field Service Kit

The purpose of the ESD Protection Program is to preserve the inherent reliability and quality of electronic components that are handled by the Field Service Personnel. This program is being implemented now as a direct result of advances in microcircuitry technology, as well as a new acknowledgment of the magnitude of the ESD problem in the electronics industry today.

This program will reduce Field Service costs that are charged to PWB failures. Ninety percent of all PWB failures that are ESD related do not occur immediately. Using the ESD Field Service Kit will eliminate these delayed failures and intermittent problems caused by ESD. This will improve product reliability and reduce callbacks.

The ESD Field Service Kit should be used whenever Printed Wiring Boards or ESD sensitive components are being handled. This includes activities like replacing or reseating of circuit boards or connectors. The kit should also be used in order to prevent additional damage when circuit boards are returned for repair.

The instructions for using the ESD Field Service Kit can be found in ESD Field Service Kit Usage in the General Procedures section of the Service Documentation.

Illustration Symbols

Figure 6 shows symbols and conventions that are commonly used in illustrations.

REFERENCE SYMBOLOGY

Test data, notes, adjustments, and parts lists are supportive to the BSD and RAP information. This supportive data is referenced, using the symbols shown in the following paragraphs:




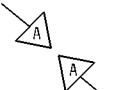

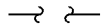
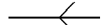

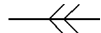
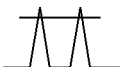

TEST DATA	 <p>This symbol appears on the BSD whenever a test data reference is necessary in order to verify the presence of a signal.</p>	TEST POINTS	 <p>This symbol is used to identify a test point/test hole available for measuring a signal.</p>	[X-XXX]	<p>This symbol placed above a signal name on a BSD indicates the input or output component control code for that signal.</p>
NOTES	 <p>This symbol is used to refer to notes. The notes normally appear on the same page.</p>	BSD GRAPHICS	 <p>This symbol indicates the continuation of a signal line in a vertical direction.</p>	[X-XXX] [X-XXX]	<p>This symbol placed above a signal name on a BSD indicates that two component control codes (an output and an input) are required to check that signal.</p>
ADJUSTMENTS	 <p>This symbol refers to adjustments on the Service Data Section.</p>	 <p>This symbol indicates the continuation of a signal line in a horizontal direction.</p>	 <p>This symbol indicates the direction of signal flow.</p>	[X-XXX/X-XXX]	<p>This symbol placed above a signal name on a BSD indicates component control codes for two components, in this example, two Paper Trays. The left hand code is for Paper Tray 1, and the right hand code is for Paper Tray 2.</p>
PARTS LISTS	 <p>This symbol refers to a parts list on the Service Data Section. PL indicates that this is a parts list reference and, in this example, the exploded view drawing is on Parts List 2-XX. Parts list reference appear on the BSDs next to all replaceable parts shown on the diagram.</p>	 <p>This symbol indicates a feedback signal.</p>	 <p>This symbol is used to show a twisted pair of wires.</p>	[X-XXX]	<p>Fault Codes Indicator shown on BSD.</p>
					<p>The Flag symbol indicates a reference point into a Circuit Diagram from a RAP. Instructions will be given to check for an open circuit, a short circuit, or an intermittent condition</p>

Figure 6 Illustration Symbols

Signal Nomenclature

Refer to Figure 7 for an example of Signal Nomenclature used in Circuit Diagrams and BSDs.

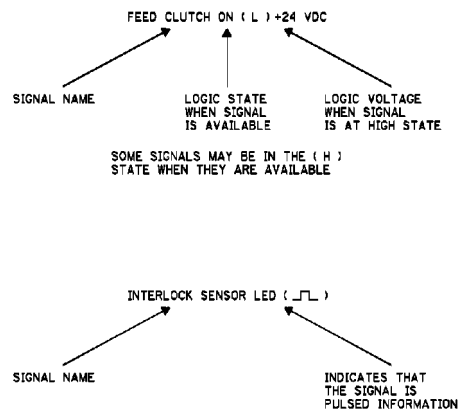


Figure 7 Signal Nomenclature

Voltage Measurement and Specifications

Measurements of DC voltage must be made with reference to the specified DC Common, unless some other point is referenced in a diagnostic procedure. All measurements of AC voltage should be made with respect to the adjacent return or ACN wire.

Table 1 Voltage Measurement and Specifications

VOLTAGE	SPECIFICATION
INPUT POWER 220 V	198 VAC TO 242 VAC
INPUT POWER 100 V	90 VAC TO 135 VAC
INPUT POWER 120 V	90 VAC TO 135 VAC
+5 VDC	+4.75 VDC TO +5.25 VDC
+24 VDC	+23.37 VDC TO +27.06 VDC

Logic Voltage Levels

Measurements of logic levels must be made with reference to the specified DC Common, unless some other point is referenced in a diagnostic procedure.

Table 2 Logic Levels

VOLTAGE	H/L SPECIFICATIONS
+5 VDC	H= +3.00 TO +5.25 VDC L= 0.0 TO 0.8 VDC
+24 VDC	H= +23.37 TO +27.06 VDC L= 0.0 TO 0.8 VDC

DC Voltage Measurements in RAPs

The RAPs have been designed so that when it is required to use the DMM to measure a DC voltage, the first test point listed is the location for the red (+) meter lead and the second test point is the location for the black meter lead. For example, the following statement may be found in a RAP:

There is +5 VDC from TP7 to TP68.

In this example, the red meter lead would be placed on TP7 and the black meter lead on TP68.

Another example of a statement found in a RAP might be:

There is -15 VDC from TP21 to TP33.

In this example, the red meter lead would be placed on TP21 and the black meter lead would be placed on TP33.

If a second test point is not given, it is assumed that the black meter lead may be attached to the copier frame.

Translated Warnings

Introduction

Symbology and Nomenclature

WARNING

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

DANGER: Une note DANGER est utilisée à chaque fois qu'une procédure de maintenance ou qu'une manipulation présente un risque de blessure si elle n'a pas été strictement observée.

WARNING

This machine contains an invisible laser. There is no visual indication that the laser beam is present. During servicing, the machine is a Class 3B product because of the invisible laser. The laser beam could cause eye damage if looked at directly. Service procedures must be followed exactly as written without change. The service representative must observe the established local laser safety precautions when servicing the machine. Do not place tools with a reflective surface in the area of the ROS opening. Do not look in the area of the ROS window if the power is On and the laser is energized.

DANGER: L'équipement contient un faisceau laser invisible et aucune indication visible signale la présence du faisceau laser. De ce fait le produit est classé 3B pour tout ce qui concerne la maintenance. L'exposition directe des yeux au faisceau laser peut entraîner des lésions visuelles. Les procédures de maintenance doivent être réalisées sans aucun changement comme indiqué dans la documentation. Le représentant Xerox lors d'interventions sur l'équipement doit respecter les consignes de sécurité locales concernant les faisceaux laser. Ne pas placer d'objet réfléchissant dans la zone du ROS quand il est ouvert. Ne pas regarder dans la zone du ROS lorsque la machine est sous tension et que le laser est en fonctionnement.

The following symbol and statement appear on a label in the machine. The symbol by itself, or the symbol and the statement may also appear in the service documentation and in the training program. When this symbol appears, the service representative is warned that conditions exist that could result in exposure to the laser beam.

DANGER: Les symboles et instructions suivants sont indiqués sur des étiquettes dans la machine et sont identifiés dans la documentation technique et dans le manuel de formation. Quand ces symboles s'affichent le représentant Xerox est prévenu des risques encourus concernant une exposition au rayon laser.

WARNING

Do not try to bypass any laser interlocks for any reason. Permanent eye damage could result if the laser is accidentally directed into your eye.

DANGER: Ne pas essayer de shunter les contacts laser pour quelques raisons que ce soit. Si le faisceau laser est dirigé accidentellement vers les yeux il peut en résulter des lésions oculaires permanentes.

4 Repairs and Adjustments

Drives

REP 1.1.1 Main Drive Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer mainte-

nance ou réglage avec le cordon d'alimentation branche.

Paper Transportation

REP 2.1.1 Feeder 1 Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 2.3.1 Tray Feed/Nudger/Retard Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 2.4.1 Registration Unit

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 2.5.1 Take Away Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 2.6.2 Left Hand (L/H) Upper Cover Unit

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

ROS

REP 3.1.1 ROS Unit

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Xerographics/Development

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 4.1.2 Toner Cartridge

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 4.2.1 Dispense Motor

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Fuser

REP 5.1.1 Fuser Unit

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Exit

REP 6.1.1 Exit 2 +OCT 2

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

MPT

REP 7.1.1 MPT Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 7.2.1 MPT Feed Roll/Retard Pad

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Electrical Components

REP 9.1.1 MCU PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 9.2.1 ESS PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Covers

REP 10.1.1 Top Cover Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 10.2.1 Rear Lower Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

IIT

REP 11.1.1 Platen Cushion

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.1.2 Control Panel

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.3.1 Platen Glass

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.3.2 IIT/IPS PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.4.1 Lens Kit Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.5.1 Carriage Cable

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.5.2 Carriage Motor

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.6.1 Exposure Lamp

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 11.6.2 Lamp Wire Harness

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Tray Module -2T

REP 12.1.1 Tray 3 Feeder

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 12.1.2 Tray 3 Feeder (2TM)

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 12.3.1 Feed/Retard/Nudger Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 12.6.1 2 Tray Module PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Tray Module -TT

REP 13.1.1 Tray 3 Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.1.2 Tray 2 Assembly (2TTM)

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.3.1 Front/Rear Tray Cable

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.4.1 Tray 3 Feeder (TTM)

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.5.1 Tray 3 Feeder

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.6.1 Feed/Retard/Nudger Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 13.8.1 Twin Tray Module PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

DADF

REP 15.1.1 DADF Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.1.2 DADF Platen Cushion

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.2.1 DADF Document Tray

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.2.2 DADF Feeder Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.2.3 DADF Front Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.2.4 DADF Rear Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.3.1 DADF PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.3.2 Left Counter Balance

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.3.3 Right Counter Balance

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.4.1 Retard Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.4.2 Top Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.6.1 Nudger Roll, Feed Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 15.8.1 Registration Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

Finisher

REP 16.1.1 H-Transport Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.3.1 H-Transport Belt

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.1.2 Finisher Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.4.1 Front Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.4.2 Rear Cover

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.5.1 Stack Height Sensor Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.5.2 Eject Roll Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.6.1 Decurler Roll

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.6.2 Finisher Drive Motor

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.7.1 Belt

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.8.1 Rail

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.8.2 Staple Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.9.1 Compiler Tray Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.10.1 Stacker Motor Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

nance ou réglage avec le cordon d'alimentation branche.

REP 16.10.2 Elevator Belt Assembly

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.11.1 Paddle Gear Shaft

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

REP 16.12.1 Finisher PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

IIT

ADJ 11.6.1 Full/Half Rate carriage Position Adjustment

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer maintenance ou réglage avec le cordon d'alimentation branche.

8 Options and Accessories

8.1 FAX KIT

WARNING

Switch off the machine and disconnect the power cord.

DANGER: Mettre la machine sur ARRET et débrancher le cordon d'alimentation.

8.2 Foreign Interface

WARNING

Switch off the machine and disconnect the power cord.

DANGER: Mettre la machine sur ARRET et débrancher le cordon d'alimentation.

1 Service Call Procedures

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Service Call Procedures

Service Strategy

The service strategy for the WorkCentre 7132 is to perform any High Frequency Service Item (HFSI) actions before attempting to repair any problems. Some problems will be corrected by this strategy without the need to diagnose them. The Repair Analysis Procedures (RAPs) will be used for any remaining problems.

Problems that occur in the Basic Printer mode will be repaired before problems that occur when using the accessories.

Image Quality problems should be repaired after all other problems are repaired.

Service Call Procedures

The **Service Call Procedures** are a guide for performing any service on this machine. The procedures are designed to be used with the Service Manual. Perform each step in order.

Initial Actions

The Initial Actions gather information about the condition of the machine and the problem that caused the service call.

Call Flow

Call Flow summarizes the sequence of the Service Call Procedures.

Detailed Maintenance Activities

Detailed Maintenance Activities section provides the information needed to perform the High Frequency Service Item (HFSI) actions.

Cleaning Procedures

The Cleaning Procedures list what needs to be cleaned at each service call.

Final Actions

The Final Actions will test the copier/printer and return it to the customer. Administrative activities are also performed in the Final Actions.

Initial Actions

Purpose

The purpose of the Initial Action section of the Service Call Procedures is to determine the reason for the service call and to identify and organize the actions which must be performed.

Procedure

1. Gather the information about the service call and the condition of the copier/printer.
 - a. Question the operator(s). Ask about the location of most recent paper jams. Ask about the image quality and the copier/printer performance in general, including any unusual sounds or other indications.
 - b. After informing the customer, disconnect the machine from the customer's network.
 - c. Check that the power cords are in good condition, correctly plugged in the power source, and free from any defects that would be a safety hazard. Repair or replace the power cords as required. Check that the circuit breakers are not tripped.
 - d. Inspect any rejected copies. Inquire as to, or otherwise determine, the paper quality and weight, the specified paper for optimum Image Quality, 24# Xerox Color Expressions (NASG) or ColorTech+90gsm (ESG). Look for any damage to the copies, oil marks, image quality defects, or other indications of a problem.
 - e. Record the billing meter readings.
 - f. Access Diagnostic Routines.
 - i. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - ii. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).

NOTE: If a fault code is displayed while performing a diagnostics procedure, go to that fault code RAP and repair the fault. Return to Diagnostics and continue with the dC procedure that you were performing.

- g. Print the HFSI Report and determine what HFSI action is required based on the customer output volume. Refer to the Detailed Maintenance Activities section for the detailed HFSI information. Record any items that require action.
 - h. Display and record the information in the Jam Counter, Fault Counter, and Shutdown History. Classify this information into categories:
 - Information that is related to the problem that caused the service call.
 - Information that is related to secondary problems.
 - Information that does not require action, such as a single occurrence of a problem.
 - i. Check the Service Log for any recent activities that are related to the problem that caused the service call or any secondary problem.
2. Perform any required HFSI activities identified above. Refer to the Detailed Maintenance Activities section.
3. Exit diagnostics. Try to duplicate the problem by running the same jobs that the customer was running.
4. Check the Image Quality in the Basic Copier Mode. Select the tray that is loaded with 11 x 17 or A3 paper, if unable to complete tray selection, go to Call Flow.

Set the copier/printer to the following setup:

 - Output Color - Auto

- Original Type - Photo and Text Halftone
- R/E - Auto
- Lighter/Darker - Auto Contrast
- Sharpness - Normal
- Preset Color Balance - Normal
- Color Shift - Normal
- Color Saturation - Normal
- Copy Position - No Shift
- Variable Color Balance - Normal

Run four copies of the Color Test Pattern.

Check the Image Quality. If the customer has identified any Image Quality Defects or problems, go to IQ1 IOT Image Quality Entry RAP.

5. Go to Call Flow.

Call Flow

This procedure should be performed at every service call.

Initial Actions

Ask the operator about the problem. If the problem appears to be related to operator error, or an attempt to perform a job outside of the machine specifications, assist the customer in learning the correct procedure.

Procedure

If the machine does not power up, Go to Power On RAP.

Ask the operator about the problem.

- If the problem is identified by a fault code (including Paper/Document Jams), refer to Chapter 2 for the procedure and then proceed with servicing.
- If the problem is noise or smell, select a mode (1 Sided/2Sided, Finisher etc.), find the cause of the problem and proceed with servicing.

The operator operated the machine correctly.

Y N

Explain to the operator how to operate the machine correctly.

The UI display is normal.

Y N

Go to OF 6 Dark/Blank Display. Refer to BSDs (CH2.1-CH2.4).

The problem occurs only in Print mode.

Y N

The problem occurs only in Copy mode.

Y N

The problem occurs only in Fax mode.

Y N

The problem is an accessory or the Foreign Accessory.

Y N

Refer to Table 1 Other Faults and identify the problem and follow the corrective action.

If the cause of the problem is an accessory or the Foreign Interface, check that the machine settings are correct, refer to the appropriate service manual for the procedure and then proceed with servicing.

The problem occurs only in certain modes such as Broadcast transmission.

Y N

Perform a transmission test with the call center or station. **The problem reoccurs.**

Y N

Ask the customer for permission to establish communications with the remote machine that is causing the problem. Perform a Send transmission test with the remote machine. Transmission was normal.

A B C D

A B C D

Y

N

Print the protocol trace to identify whether it is the remote machine or the machine that is causing the problem.

- If the problem lies in the machine:
Analyze the protocol trace, refer to Chapter 2 and then proceed with servicing.
- If the problem appears to lie in the remote machine:
Ask the customer to check the status of the remote machine.

There is a problem with Receive transmission test. Perform Receive transmission tests with other stations within the company. Check that there is no problem with the machine and then ask the customer to check the status of the remote machine.

Analyze the protocol trace, refer to Chapter 2 and then proceed with servicing.

Check the machine settings and if necessary, ask the customer for permission to test the machine in the mode in which the problem occurs.

Analyze the protocol trace when the problem reoccurs, refer to Chapter 2 and then proceed with servicing.

There is an image quality problem.

Y N

If there is an alignment problem, obtain separate Platen/DADF output samples, refer to Chapter 4 Adjustments and then proceed with servicing.

Refer to Chapter 3 IQ1 IOT Image Quality Entry RAP and then proceed with servicing.

There is a problem with the network.

Y N

There is a problem with the USB connection.

Y N

There is an image quality problem.

Y N

The problem lies in a certain Client PC.

Y N

There is a problem with a certain application or programming language A. Obtain the latest information on restrictions and technical information. Proceed accordingly.

Check the settings of that particular Client PC and if necessary ask the user to reinstall the printer driver.

Refer to IQ1 IOT Image Quality Entry RAP and then proceed with servicing.

If the problem persists, ask the user to reinstall the printer driver.

Check the machine settings and if necessary ask the user to reinstall the printer driver.

E

If the problem continues, replace the network cable. If the problem persists, replace the USB cable. Check the machine settings and discuss the problem with the customer's network administrator.

Table 1 Other Faults

Problem	Corrective Action
Duplexing is not available as a selection on the display.	Ensure the Duplex electrical connector is secure (PL 10.1)
Copies jam in the Finisher when the output tray is near maximum capacity.	Verify condition of paper. If good, check that part 655N128 can be used to support tray.
ADF inoperative after PWB replacement.	Reload Software ADJ 9.3.1.
Can not make copies when Auditron is enabled.	Enter UI Diagnostic Mode. Select Copy on screen. Machine will operate without auditron restriction.
Loud snapping noise is heard.	Enter Component Control [042-003] and press the Start button. If noise is present there is binding in toner auger drive system. Repair as required (PL 1.2)
Sets are not offset in Center Tray.	Perform Center Tray Offsetting.
E-mail icon not visible in display on email enabled machine.	Perform E-Mail Icon.
Customer wishes to distinguish FAX output from prints or copies.	Perform FAX Output Separation.

E

Detailed Maintenance Activities (HFSI)

Procedure

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - b. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).
2. Select **NVM Read/Write**.
3. Refer to Table 1 and enter a counter number for any High Frequency Service Item (HFSI) counters to be checked. Use the customer's output volume numbers to help determine which HFSI components should be serviced. Consider components near threshold as candidates for service.
4. Refer to Cleaning Procedures for detailed cleaning instructions.

Table 1 High Frequency Service Items

Counter	Name	Threshold	Service Action to be performed
955-829	Inverter Solenoid On Counter	500K	Replace the Inverter Solenoid.

Table 1 High Frequency Service Items

Counter	Name	Threshold	Service Action to be performed
954-800	Tray 1 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-801	Tray 2 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-802	Tray 3 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-803	MSI Feed counter	50K	Replace the Feed Roll, Retard Pad.
954-824	IBT Belt counter	480K	Replace the IBT Assembly.
954-825	IBT Cleaner counter	100K	Replace the IBT Cleaner.
954-826	2nd BTR Counter	300K	Replace the Bias Transfer Roll.
954-830	K Developer Counter	420K	Replace the K Developer.
954-831	Y Developer Counter	420K	Replace the Y Developer.
954-832	M Developer Counter	420K	Replace the M Developer.
954-833	C Developer Counter	420K	Replace the C Developer.
954-837	Xero Drum Counter	10M	Replace the Xero Drum Assembly.
954-842	Fuser Counter	10M	Replace the Fuser Assembly.
956-802	Lamp Scan Counter	6000K	Replace the Exposure Lamp.
956-803	Exposure Lamp Time Counter	7200K	Replace the Exposure Lamp.
956-804	Exposure Lamp On Counter	6000K	Replace the Exposure Lamp.
955-806	CVT Feed Counter	200K	Replace the Document Nudger Roll, Feed Roll, Retard Roll, Registration Roll.
955-807	Simplex Feed Counter	912K	Replace the Document Nudger Roll, Feed Roll, Retard Roll, Registration Roll.
955-808	Duplex Feed Counter	912K	Replace the Document Nudger Roll, Feed Roll, Retard Roll, Registration Roll.
955-810	Platen Interlock Counter	260K	Replace the Platen Interlock Switch.

Cleaning Procedures

Purpose

To provide cleaning procedures to be performed at every service call.

Procedure

CAUTION

Do not use any solvents unless directed to do so by the Service Manual.

General Cleaning

Use a dry lint free cloth or a lint free cloth moistened with water for all cleaning unless directed otherwise by the Service Manual. Wipe with a dry lint free cloth if a moistened cloth is used.

1. **Feed Components (Rolls and Pads)**

Follow the General Cleaning procedure above.

2. **Toner Dispense Units**

Vacuum the Toner Dispense units.

3. **Jam Sensors**

Clean the sensors with a dry cotton swab.

4. **Scanner**

- a. Switch off the power and allow the Exposure Lamp to cool off.
- b. Using the optical Cleaning Cloth, clean the front and rear of the Document Glass, Document Cover, White Reference Strip, Reflector, and Mirror.
- c. Clean the Exposure Lamp with a clean cloth and Film Remover.
- d. Clean the Lens with Lens and Mirror Cleaner and lint free cloth.

5. **DADF**

Check the paper path for debris or damage. Clean the rolls with a clean cloth and Film Remover as required.

6. **Document Glass and Constant Velocity Transport Glass**

Follow the General Cleaning procedure above.

7. **ROS Window**

Remove and reinstall the ROS Cleaning Wand.

8. **IBT Belt**

Check the Transfer Belt System and wipe with a dry lint free cloth. If the surface is excessively dirty, replace the IBT Belt (PL 6.2)

NOTE: *Do not rub the IBT Cleaning Blade. If it is necessary to clean the blade, use a soft brush or dry swab to remove any contamination. Rubbing the blade will remove the protective coating.*

9. **Finisher**

Check the paper path for debris or damage. Clean the Finisher with a dry lint free cloth.

Final Actions

Purpose

To provide a guide for procedures to be done at the end of every service call.

Procedure

1. Ensure that the exterior of the copier/printer and the adjacent area are clean. Use a dry cloth or a cloth moistened with water to clean the copier/printer. Do not use solvents.
2. Check the supply of consumables. Ensure that an adequate supply of consumables is available according to local operating procedures.
3. Complete the Service Log.
4. Perform the following steps to make a copy of the Demonstration Original for the customer:
 - a. Load Tray 1 with 8.5 x 11 inch (A4) or 11 x 17 inch paper.
 - b. Place the Color Test Pattern on the glass with the short edge of the test pattern registered to the left edge of the glass. Select Tray 1 and make a single copy.
 - c. Print out the Machine Settings (Configuration Report). Store this report with the service log in the Inner Cover.
 - d. Ask the customer to verify the Print and Scan functions.
 - e. Present the copies to the customer.
5. Reconnect the machine to the customer network. Verify the function.
6. Issue copy credits as needed.
7. Discuss the service call with the customer to ensure that the customer understands what has been done and is satisfied with the results of the service call.

2 Status Indicator RAPs

001 Power RAP

Power On RAP 2-17

002 HDD

002-770 Job Template Processing - HDD Full RAP 2-19

003 IPS-ESS Communication

003-318 IIT Software RAP 2-21
 003-319 IIT Video Driver Detection RAP 2-21
 003-320 IISS-ESS Communication 1 RAP 2-22
 003-321 IISS-ESS Communication 2 RAP 2-22
 003-322 IISS-ESS Communication 3 RAP 2-23
 003-323 IISS-ESS Communication 4 RAP 2-23
 003-324 IISS-ESS Communication 5 RAP 2-24
 003-325 IISS-ESS Communication 6 RAP 2-24
 003-326 IISS-ESS Communication 7 RAP 2-25
 003-327 IISS-ESS Communication 8 RAP 2-25
 003-328 IISS-ESS Communication 9 RAP 2-26
 003-329 IISS-ESS Communication 10 RAP 2-26
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 003-761 Incorrect Paper Tray Size RAP 2-38
 003-763 Adjustment Chart RAP 2-39
 003-764 Image Overlay RAP 2-39
 003-780 Scanned Image Compression RAP 2-40
 003-795 AMS Limit RAP 2-40
 003-930 300 DPI Scan RAP 2-41

003-931 400 DPI Scan RAP 2-41
 003-932 600 DPI Scan RAP 2-42
 003-933 300 DPI Scan RAP 2-42
 003-934 400 DPI Scan RAP 2-43
 003-935 600 DPI Scan RAP 2-43
 003-940 Memory RAP 2-44
 003-942 Document Size Auto Detect RAP 2-44
 003-944 Image Repeat Count RAP 2-45
 003-946 Image Rotation (Copy APS) RAP 2-45
 003-947 Return Documents Count RAP 2-46
 003-948 Return Documents Mismatch RAP 2-46
 003-952 Document Color Mismatch RAP 2-47
 003-955 Documents Size Exchange RAP 2-47
 003-956 Coping from the Platen Failure RAP 2-48
 003-963 APS Object Tray RAP 2-48
 003-965 ATS/APS Paper Detect RAP 2-49
 003-966 ATS/APS Destination (IIT) RAP 2-49
 003-970 Fax Line Memory RAP 2-50
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005 DADF

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Power On RAP

BSD-ON:1.1

This procedure is used to determine the reason that the machine will not power up after the Main Power Switch is set to ON. Indications include a blank UI and no machine power up sounds (i.e. motors, relays, solenoids, beeps, etc...).

Initial Actions

- Ensure that the Customer's circuit breaker is not tripped and that AC power is available at the power outlet that the machine will be using.
- Ensure that the power cord is seated correctly and is not damaged.
- If the machine GFI Circuit Breaker is tripped, try to reset it. If it trips again, switch the power off and unplug the power cord. Refer to wirenet 7.3.1 Wire Net AC POWER (HOT) and check for a short circuit in the AC wiring.

Procedure

Switch the machine Main Power Switch to ON. **There is ACH between J11/T11-1(+) and J12/T12-1(-) at the Power Unit.**

Y N
Switch the power off and unplug the power cord. Verify that the power cord is good. If not, replace the power cord.
Refer to BSD Chain 1 Standby Power and check for an open circuit in the wiring between the GFI Breaker and the Power Unit. If the wiring is OK, replace the GFI Breaker (PL 11.1).

There is ACH between J1-3(+) and T12-1(-) at the Power Unit.

Y N
Refer to BSD Chain 1 Standby Power and check for an open circuit in the wiring between J11/T11-1 and J1-3 of the Power Unit. If the wiring is OK, replace the Main Power Switch (PL 11.1).

+24V LED (CR3309) is lit on the ESS PWB.

Y N
There is +24 VDC between P/J387-5(+) and P/J387-6(-) of the ESS PWB.
Y N
Refer to BSD Chain 1 Standby Power and check for an open circuit in the wiring between the ESS PWB and the Power Unit. If the wiring is OK, replace the Power Unit (PL 11.1).
Replace the ESS PWB (PL 11.2).

+5V LED (CR3306) is lit on the ESS PWB.

Y N
There is +5 VDC between P/J387-1(+) and P/J387-3(-) of the ESS PWB.
Y N
Refer to BSD Chain 1 Standby Power and check for an open circuit in the wiring between the ESS PWB and the Power Unit. If the wiring is OK, replace the Power Unit (PL 11.1).

A B

A B
+5V LED (CR3307) is lit on the ESS PWB.

Y N
There is +5 VDC between P/J387-2(+) and P/J387-4(-) of the ESS PWB.

Y N
Refer to BSD Chain 1 Standby Power and check for an open circuit in the wiring between the ESS PWB and the Power Unit. If the wiring is OK, replace the Power Unit (PL 11.1).

Replace the ESS PWB (PL 11.2).

002-770 Job Template Processing - HDD Full RAP

The system aborted a job due to insufficient HDD capacity during Job Template processing.

Procedure

Ask customer to separate job into smaller parts. Helpful information may be found in User Guide sections Overwrite Hard Disk or Mailbox.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

003-318 IIT Software RAP

The IIT software is corrupt.

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

003-319 IIT Video Driver Detection RAP

One of the following errors is detected:

- Compression Threshold overflow
- DMA Transfer error
- Other system compression errors

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

003-320 IISS-ESS Communication 1 RAP

BSD-ON:3.1/6.2

An abnormal parameter is set as the argument for the send function.

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-321 IISS-ESS Communication 2 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (The Sequencing No. of the sent Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-322 IISS-ESS Communication 3 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (The Packet No. of the sent Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-323 IISS-ESS Communication 4 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (The Message Length of the sent Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-324 IISS-ESS Communication 5 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (The Message Length of the sent Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-325 IISS-ESS Communication 6 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (A parity error was detected by hardware in the IIT/IPS PWB.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-326 IISS-ESS Communication 7 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (Framing error was detected by hardware in the IIT/IPS PWB.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-327 IISS-ESS Communication 8 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (An overrun error was detected by hardware in the IIT/IPS PWB.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-328 IISS-ESS Communication 9 RAP

BSD-ON:3.1/6.2

The ACK (acknowledgement code) could not be received after 2 resend attempts. (After header recognition, receive interruption was detected by the IIT/IPS PWB.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-329 IISS-ESS Communication 10 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (The Sequencing No. of the received Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-330 IISS-ESS Communication 11 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (The Packet No. of the received Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-331 IISS-ESS Communication 12 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (The Message Length of the received Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-332 IISS-ESS Communication 13 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (The Check Code of the received Message Packet is incorrect.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-333 IISS-ESS Communication 14 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (A parity error was detected by hardware of the UART.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-334 IISS-ESS Communication 15 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (A framing error was detected by hardware of the UART.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-335 IISS-ESS Communication 16 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (An overrun error was detected by hardware of the UART.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-336 IISS-ESS Communication 17 RAP

BSD-ON:3.1/6.2

The NAK that notifies of the occurrence of a transmission failure is received. (After the header was recognized, it was detected that receiving was aborted.)

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-337 IISS-ESS Communication 18 RAP

BSD-ON:3.1/6.2

After restoring from Power Saver mode, there was no response to the Power On command sent to the IIT/IPS PWB within the specified time.

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-338 IISS-ESS Communication 19 RAP

BSD-ON:3.1/6.2

The driver detected an incorrect send parameter.

Procedure

Reload Software (ADJ 9.3.1).

Pull out and insert or replace the IIT Cable.

003-339 IISS-ESS Communication 20 RAP

BSD-ON:3.1/6.2

The establishment of parameter transmission failed.

Procedure

Reload Software (ADJ 9.3.1).

Pull out and insert or replace the IIT Cable.

003-340 IISS-ESS Communication 21 RAP

BSD-ON:3.1/6.2

A parameter synchronization error during sending occurred.

Procedure

Reload Software (ADJ 9.3.1).

Pull out and insert or replace the IIT Cable.

003-341 IISS-ESS Communication 22 RAP

BSD-ON:3.1/6.2

A parameter transmission error during sending occurred.

Procedure

Reload Software (ADJ 9.3.1).

Pull out and insert or replace the IIT Cable.

003-342 IISS-ESS Communication 23 RAP

BSD-ON:3.1/6.2

The driver detected an incorrect receive parameter argument from the application.

Procedure

Reload Software (ADJ 9.3.1).

Pull out and insert or replace the IIT Cable.

003-343 IISS-ESS Communication 24 RAP

BSD-ON:3.1/6.2

A parameter synchronization error during receiving occurred.

Procedure

Pull out and insert or replace the IIT Cable.

Reload Software (ADJ 9.3.1).

003-344 Hotline Power On

BSD-ON:3.1/6.2

There is a communication failure at power on between the controller and the IIT.

Initial Actions

Power On/Off

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists replace the IIT/IPS PWB (PL 13.3).

If the problem persists replace the ESS PWB (PL 11.2).

003-345 PIO Unlatched 1 RAP

BSD-ON:3.1/6.2

When Job Fail signal was received from the IIT/IPS PWB, a hot line PIO (Programmed Input Output) error was detected.

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists replace the IIT/IPS PWB (PL 13.3).

If the problem persists replace the ESS PWB (PL 11.2).

003-346 PIO Unlatched 2 RAP

BSD-ON:3.1/6.2

When IIT image was received from the IIT/IPS PWB, a PIO (Programmed Input/Output) error was detected.

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists replace the IIT/IPS PWB (PL 13.3).

If the problem persists replace the ESS PWB (PL 11.2).

003-750 Book Duplex Documents RAP

Book duplex is not set up with the correct number of documents.

Procedure

Ask customer to check the Book Duplex setup menu.

003-751 Panther Capacity RAP

The Panther (continuous data protection protocol or utility) processed data is too small (the specified range for the document is too small).

Procedure

Ask customer to use a backup page behind the document.

003-754 S2X Recovery RAP

There is a recoverable S2X error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job if the error did not clear after the power off/on.

003-755 S2X Command Error RAP

There is an S2X command error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job if the error did not clear after the power off/on.

003-756 Blank Originals RAP

BSD-ON:3.1/6.2

No image data was scanned from the documents.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-760 Scan Settings RAP

BSD-ON:3.1/6.2

The job properties are incorrect.

Procedure

Ask customer to verify the setups.

If the problem persists disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-761 Incorrect Paper Tray Size RAP

The Cover Tray or the Transparency Tray size is incorrect when the Cover Content Tray or Separator + N set Tray is selected in APS.

Procedure

The paper size in the tray selected by auto tray switching differs from the paper size in the tray selected at the tray selection. Ask customer to either change the paper size for the tray, or change the paper type priority setting.

003-763 Adjustment Chart RAP

When Automatic Gradation Correction is performed the patch for position detection on the document is not available.

Procedure

Place the Automatic Gradation Correction Chart correctly.

003-764 Image Overlay RAP

There is an image overlay problem.

Initial Actions

Power Off/On

Procedure

Ask customer to verify the job setup and rerun the job.

003-780 Scanned Image Compression RAP

BSD-ON:3.1/6.2

The compressed data size is larger than 8 times the size of the uncompressed data.

Procedure

Ask customer to cancel and rerun the job.

If the problem persists disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-795 AMS Limit RAP

BSD-ON:3.1/6.2

After auto document detection in Auto Reduce/Enlarge, the Reduce/Enlarge ratio did not fall within the specified range (25%~400%).

Initial Actions

Ask customer to enter the correct R/E ratio or change the paper size.

Procedure

If the problem persists disconnect and reconnect the IIT/IPS PWB Harness.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-930 300 DPI Scan RAP

There is a problem scanning 300 DPI.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-931 400 DPI Scan RAP

There is a problem scanning 400 DPI.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-932 600 DPI Scan RAP

There is a problem scanning 600 DPI.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-933 300 DPI Scan RAP

There is a problem scanning 300 DPI on successive documents.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-934 400 DPI Scan RAP

There is a problem scanning 400 DPI on successive documents.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-935 600 DPI Scan RAP

There is a problem scanning 600 DPI on successive documents.

Procedure

Verify scan settings are correctly set and menu selections are correctly set.

003-940 Memory RAP

A scanner memory limit is reached.

Procedure

Power Off/On.

If the problem persists replace the IIT/IPS PWB (PL 13.3).

003-942 Document Size Auto Detect RAP

The document size cannot be automatically detected.

Procedure

Ask customer to manually set the document size.

003-944 Image Repeat Count RAP

No complete images are output using Automatic Size.

Procedure

Ask customer to check the job setups and rerun the job.

003-946 Image Rotation (Copy APS) RAP

Paper size that does not support rotation was selected even though part of the image will be cut off if it is not rotated.

Initial Actions

Select a tray with paper that supports rotation and repeat the operation.

Procedure

Replace the IIT/IPS PWB (PL 13.3).

003-947 Return Documents Count RAP

The number of documents returned by the user was less than the number of specified documents.

Procedure

Check the number of documents and repeat the operation.

003-948 Return Documents Mismatch RAP

A document that is different (document size/orientation and Color mode in ACS) from the document before document return was loaded.

Procedure

Check the document setup and repeat the operation.

003-952 Document Color Mismatch RAP

There is a color mismatch among returned documents.

Procedure

Ask customer to cancel the job, check job settings and rerun the job.

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-955 Documents Size Exchange RAP

When loading a document with Mixed Size Originals prohibited, a document of different size/orientation from the initial document was detected.

Initial Actions

Check the document size/orientation and repeat the operation.

Procedure

Replace the DADF PWB (PL 16.3)

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

003-956 Coping from the Platen Failure RAP

When coping from the Platen a fault occurs. The DADF working OK.

Procedure

Check the APS Sensor for a bent, bond, or damaged actuator preventing the full range of travel of the APS Sensor Actuator.

If the problem continues, replace the APS Sensor (PL 13.4).

003-963 APS Object Tray RAP

The correct size is not loaded for APS operation.

Procedure

Select a tray that supplies the required size paper and repeat the operation.

003-965 ATS/APS Paper Detect RAP

The correct size is not loaded for APS operation.

Procedure

Select a tray that supplies the required size paper and repeat the operation.

003-966 ATS/APS Destination (IIT) RAP

The correct size is not loaded for APS operation.

Procedure

Select a tray that supplies the required size paper and repeat the operation.

003-970 Fax Line Memory RAP

BSD-ON:17.1

The number of lines in the Slow Scan Direction exceeds the upper limit during processes such as Fax parallel synthesis or enlargement of long documents.

Procedure

Perform the following:

- Check the electrical connections on the FCB PWB (PL 11.3)
- Check the memory PWB on the FCB PWB (PL 11.3) If no memory PWB is present the customer may need additional memory.
- If the problem persists replace the FCB PWB (PL 11.3).

003-972 Maximum Stored Page RAP

The number of pages stored exceeded the maximum number set in the system data.

Procedure

Set the number of pages of the document to be within the maximum number of pages that can be stored.

003-973 Image Rotation RAP

Image rotation can not prevent image loss with current paper sizes.

Procedure

Ask customer to verify the image loss and use a larger paper size if available.

Or use reduction to make a smaller document and repeat the operation.

003-974 Next Original Specification RAP

Scanning is complete for all loaded documents.

Procedure

Ask customer to verify that scanning is complete or other documents should be loaded.

003-976 FAX Line Memory Overflow RAP

BSD-ON:17.1

The number of lines in the Slow Scan Direction exceeds the upper limit during processes such as Fax parallel synthesis or enlargement of long-sized documents.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

Check the mounting of the memory PWB(s) on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

003-977 Document Mismatch (Multiple Scan) RAP

During multiple scan a document was switched during Bound Originals/Booklet Creation/Poster scanning.

Procedure

Ask customer to process a job recovery or to cancel the job and rerun the job.

003-978 Color Document Miss Match (Multi Scan) RAP

Document Color Mismatch (a change of document in Multi Scan):

1. A change of documents during scanning a Bound Document/As Book/Poster
2. When such an operation occurred during a Platen Multi Scan (Bound Document/As Book/Poster) job caused the user to reload documents, a different sized document was reloaded, or in ACS the user reloaded different color documents

Procedure

Reload the appropriate documents and run the job.

003-980 Staple Position RAP

Stapling could not be done at the specified position.

Procedure

Ask customer to correct the job setups and rerun the job.

003-981 Staple Size RAP

Stapling could not be done for the selected paper size.

Procedure

Ask customer to correct the job setups and rerun the job.

003-982 IIT HDD Access Error RAP

BSD-ON:3.1/6.2

There is a problem with IIT accessing the Hard Drive.

Procedure

Disconnect and reconnect the IIT/IPS PWB Harness.

Check HDD electrical connections (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

005-110 Belt DADF Regi Sensor On Dynamic Jam RAP

BSD-ON:5.4

Registration Sensor does not turn On in specified time from start of original document feed.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Registration Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-111 Belt DADF Regi Sensor Off Dynamic Jam RAP

BSD-ON:5.4

Registration Sensor does not turn Off in specified time from start of original document feed.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Registration Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-112 Belt DADF Regi Sensor On Dynamic Jam RAP (Document Reverse)

BSD-ON:5.4

Registration Sensor does not turn On in specified time from start of original document reverse rotation.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Registration Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-113 Belt DADF Regi Sensor Off Dynamic Jam RAP (Document Reverse)

BSD-ON:5.4

Registration Sensor does not turn Off in specified time from start of original document reverse rotation.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Registration Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-115 Belt DADF Exit Sensor On Dynamic Jam

BSD-ON:5.4

Exit Sensor does not turn On in specified time from start of original document output operation.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Exit Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-116 Belt DADF Exit Sensor Off Dynamic Jam

BSD-ON:5.4

Exit Sensor does not turn Off in specified time from start of original document output operation.

Procedure

When the problem occurs frequently, check if there is any area in document path that interferes with document feed. If OK, check connectors and wiring for damage. If the problem continues, replace Exit Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-121 CVT Feed Sensor On Jam RAP

BSD-ON:5.4/5.5

After the first-out feed operation started (Feed Motor On (CW)) in Duplex mode, the DADF Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-205]. Actuate the DADF Feed Out Sensor with paper. **The display changes.**

Y N
Check the connections of P/J769 and P/J758. **P/J769 and P/J758 are connected correctly.**

Y N
Connect P/J769 and P/J758.

Check the wire between J769 and J758 for an open circuit or a short circuit (BSD 5.4 Flag 13/Flag 14). **The wire between J769 and J758 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-3 (+) and GND (-) (BSD 5.4 Flag 14). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P758-2 (+) and GND (-) (BSD 5.4 Flag 13). Actuate the DADF Feed Out Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Feed Out Sensor (PL 16.9).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
Check the connections of P/J764 and P/J754. **P/J764 and P/J754 are connected correctly.**

Y N
Connect P/J764 and P/J754.

Check the wire between J764 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J764 and J754 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B
Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 16.3).

A B

005-122 CVT Simplex/Side1 Pre-Registration On Jam RAP

BSD-ON:5.4/5.5

- After the Pre Feed operation started for the first sheet (DADF Feed Motor On (CW)) in Duplex or Simplex mode, the Pre-Registration Sensor did not turn On within the specified time.
- After the Pre Feed operation started for the second sheet onwards (DADF Feed Motor On (CW)) in Duplex mode, the Pre-Registration Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-206]. Actuate the DADF Pre Registration Sensor with paper.

The display changes.

Y N
Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N
Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
Check the connections of P/J764 and P/J754. **P/J764 and P/J754 are connected correctly.**

Y N
Connect P/J764 and P/J754.

Check the wire between J764 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J764 and J754 is conducting without an open circuit or a short circuit.**

A

A

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 16.3).

005-123 CVT Simplex/Side1 Registration Jam RAP

BSD-ON:5.4/5.5

After pre-registration started (DADF Feed Motor On (CCW)), the Registration Sensor did not turn On within the specified time.

Initial Actions

- Power Off and then On

Procedure

Execute Component Control [005-110]. Actuate the DADF Registration Sensor with paper.

The display changes.

Y N
Check the connections of P/J782 and P/J761. **P/J782 and P/J761 are connected correctly.**

Y N
Connect P/J782 and P/J761.

Check the wire between /J782 and J761 for an open circuit or a short circuit (BSD 5.5 Flag 1/Flag 2). **The wire between /J782 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-15 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-14 (+) and GND (-) (BSD 5.5 Flag 1). Actuate the DADF Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
Check the connections of P/J764 and P/J754. **P/J764 and P/J754 are connected correctly.**

Y N
Connect P/J764 and P/J754.

Check the wire between J764 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J764 and J754 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B

A B
Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-124 CVT Lead Reg Sensor On Jam

BSD-ON:5.4

Lead Reg Sensor does not turn On in specified time from Scan start (Reg. Motor start).

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached Roll surface.
3. Roll surface has worn abnormally.
4. Reg.Motor rotates normally.
5. Check the connectors and wires for damage.

If all above are OK, replace Lead Reg. Sensor,(PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-125 CVT Registration Sensor Off Jam RAP

BSD-ON:5.4/5.5

After the Pre Registration Sensor turned Off during the Read operation, the DADF Registration Sensor did not turn Off within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-110]. Actuate the DADF Registration Sensor with paper.

The display changes.

Y N
Check the connections of P/J782 and P/J761. **P/J782 and P/J761 are connected correctly.**

Y N
Connect P/J782 and P/J761.

Check the wire between J782 and J761 for an open circuit or a short circuit (BSD 5.5 Flag 1/Flag 2). **The wire between J782 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-15 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-14 (+) and GND (-) (BSD 5.5 Flag 1). Actuate the DADF Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
Check the connections of P/J764 and P/J754. **P/J764 and P/J754 are connected correctly.**

Y N
Connect P/J764 and P/J754.

Check the wire between J764 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J764 and J754 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B

A B
Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**
Y N
| Replace the DADF PWB (PL 16.3).
Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control [005-026]. The DADF Registration Motor (PL 16.9) starts up.

Y N
Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**
Y N
| Connect P/J765 and P/J755.
Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**
Y N
| Repair the open circuit or short circuit.
Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**
Y N
| Replace the DADF PWB (PL 16.3).
Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 16.3).

005-126 CVT Out Sensor On Jam

BSD-ON:5.4

Out Sensor does not turn On in specified time from Scan start (Reg. Motor start).

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached Roll surface.
3. Roll surface has worn abnormally.
4. Reg.Motor rotates normally.
5. Platen Motor rotates normally.
6. Check the connectors and wires for damage.

If all above are OK, replace Out Sensor (PL 16.9). If the problem persists, replace the DADF PWB (PL 16.3).

005-127 CVT Out Sensor Off Jam

BSD-ON:5.4

Out Sensor does not turn Off in specified time fro Reg.Sensor Off.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached Roll surface.
3. Roll surface has worn abnormally.
4. Reg.Motor rotates normally.
5. Platen Motor rotates normally.
6. Check the connectors and wires for damage.

If all above are OK, replace Out Sensor (PL 16.9). If the problem persists, replace the DADF PWB (PL 16.3).

005-128 CVT Simplex Exit 1 Sensor On Jam

BSD-ON:5.4

Exit 1 Sensor does not turn On in specified time from Out Sensor On in Simplex Mode.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Simp/Dup Gate is in normal position (Simp/Dup Gate Solenoid operation included.)
5. Platen Motor rotates normally.
6. Exit Motor rotates normally.
7. Check the connectors and wires for damage.

If all above are OK, replace Simplex Exit 1 Sensor (PL 16.7). If the problem continues, replace the Exit 1 Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-129 CVT Simplex Exit 1 Sensor Off Jam

BSD-ON:5.4

Exit 1 Sensor does not turn Off in specified time from Out Sensor Off in Simplex Mode.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Simp/Dup Gate is in normal position (Simp/Dup Gate Solenoid operation included.)
5. Platen Motor rotates normally.
6. Exit Motor rotates normally.
7. Check the connectors and wires for damage.

If all above are OK, replace Exit 1 Sensor (PL 16.7). If the problem continues, replace the Out Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-130 CVT Invert Sensor On Jam

BSD-ON:5.4

Invert Sensor does not turn On in specified time from Out Sensor On in Duplex Mode

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Simp/Dup Gate is in normal position (Simp/Dup Gate Solenoid operation included.)
5. Platen Motor rotates normally.
6. Check the connectors and wires for damage.

If all above are OK, replace Invert Sensor (PL 16.7). If the problem continues, replace the Out Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-131 CVT Invert On Jam RAP

BSD-ON:5.4/5.5

After the Registration Sensor turned On during Invert operation, the Invert Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-211]. Actuate the DADF Invert Sensor with paper. **The display changes.**

Y N
Check the connections of P/J780 and P/J761. **P/J780 and P/J761 are connected correctly.**

Y N
Connect P/J780 and P/J761.

Check the wire between J780 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 5/Flag 6). **The wire between J780 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-9 (+) and GND (-) (BSD 5.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-8 (+) and GND (-) (BSD 5.4 Flag 5). Actuate the DADF Invert Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Invert Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
Connect P/J765 and P/J755.

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B

A B
Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-132 CVT Invert On Jam 2 RAP

BSD-ON:5.4/5.5

After the Read Speed Control operation started (Registration Motor On (CCW)), the Invert Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-211]. Actuate the DADF Invert Sensor with paper. **The display changes.**

Y N
Check the connections of P/J780 and P/J761. **P/J780 and P/J761 are connected correctly.**

Y N
Connect P/J780 and P/J761.

Check the wire between J780 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 5/Flag 6). **The wire between J780 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-9 (+) and GND (-) (BSD 5.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-8 (+) and GND (-) (BSD 5.4 Flag 5). Actuate the DADF Invert Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Invert Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
Connect P/J765 and P/J755.

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B
Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

A B

005-133 CVT Invert Sensor Off Jam

BSD-ON:5.4

Invert Sensor does not turn Off in specified time from Out Sensor Off in Duplex Mode.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Simp/Dup Gate is in normal position (Simp/Dup Gate Solenoid operation included.)
5. Platen Motor rotates normally.
6. Feed Motor rotates normally.
7. Invert Roll performs Nip operation normally (Nip Release Solenoid operation included)
8. Check the connectors and wires for damage.

If all above are OK, replace Invert Sensor (PL 16.7). If the problem continues, replace the Out Sensor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

005-134 CVT Invert Sensor Off Jam (Inverter) RAP

BSD-ON:5.4/5.5

After the Registration Sensor turned Off on inverting at Invert, the Invert Sensor did not turn Off within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-211]. Actuate the DADF Invert Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J780 and P/J761. **P/J780 and P/J761 are connected correctly.**

Y N
| Connect P/J780 and P/J761.

Check the wire between J780 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 5/Flag 6). **The wire between J780 and J761 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-9 (+) and GND (-) (BSD 5.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-8 (+) and GND (-) (BSD 5.4 Flag 5). Actuate the DADF Invert Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF Invert Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
| Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
| Connect P/J765 and P/J755.

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

A B

A B
 Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N
 Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-135 CVT Side2 Pre-Registration On Jam RAP

BSD-ON:5.4/5.5/5.6

After the Invert operation started (Registration Motor On (CW)) at Invert, the DADF Pre Registration Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Check the installation and operation of the Invert Gate. **The Invert Gate is installed and it works.**

Y N
 Install the Invert Gate correctly.

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor with paper. **The display changes.**

Y N
 Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N
 Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N
 Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
 Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N
 Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control[005-026]. **The DADF Registration Motor starts up.**

Y N
 Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
 Connect P/J765 and P/J755.

A B

A

B
Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Execute Component Control [005-072]. **The Exit Nip Release Solenoid can be heard.**

Y N
Check the connections of P/J766 and P/J756. **P/J766 and P/J756 are connected correctly.**

Y N
Connect P/J766 and P/J756.

Check the wire between P756 and J766 for an open circuit or a short circuit (BSD 5.6 Flag 2). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.4) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-136 CVT Side2 Registration On Jam RAP

BSD-ON:5.4/5.5/5.6

After the DADF Pre Registration Sensor turned On at Invert, the DADF Registration Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-110]. Actuate the DADF Registration Sensor with paper. **The display changes.**

Y N
Check the connections of P/J782 and P/J761. **P/J782 and P/J761 are connected correctly.**

Y N
Connect P/J782 and P/J761.

Check the wire between J782 and J761 for an open circuit or a short circuit (BSD 5.5 Flag 1/Flag 2). **The wire between J782 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-15 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-14 (+) and GND (-) (BSD 5.5 Flag 1). Actuate the DADF Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
Check the connections of P/J764 and P/J754. **P/J765 and P/J754 are connected correctly.**

Y N
Connect P/J765 and P/J754.

Check the wire between J765 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J765 and J754 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B

A **B**
Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

Y **N**
Replace the DADF PWB (PL 16.3).

Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control [005-072]. **The Exit Nip Release Solenoid can be heard.**

Y **N**
Check the connections of P/J766 and P/J756. **P/J766 and P/J756 are connected correctly.**

Y **N**
Connect P/J766 and P/J756.

Check the wire between P756 and J766 for an open circuit or a short circuit (BSD 5.6 Flag 2). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y **N**
Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.7) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-137 CVT Exit 2 Sensor On Jam

BSD-ON:5.4

Exit 2 Sensor does not turn On in specified time from start of Feed Motor reverse rotation in Reverse Output operation.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Exit Gate is in normal position (Exit Gate Solenoid operation included.)
5. Feed Motor rotates normally.
6. Invert Roll performs normal Nip operation (Nip Release Solenoid operation included.)
7. Exit Motor rotates normally.
8. Exit Gate, closed, blocks path.
9. Check the connectors and wires for damage.

If all above are OK, replace Exit 2 Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-138 CVT Exit 1 Sensor On Jam (Side 2)

BSD-ON:5.4

Exit 1 Sensor does not turn On in specified time from Exit 2 Sensor On in Reverse Output operation.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Exit Gate is in normal position (Exit Gate Solenoid operation included.)
5. Feed Motor rotates normally.
6. Invert Roll performs normal Nip operation (Nip Release Solenoid operation included.)
7. Exit Motor rotates normally.
8. Exit Gate, closed, blocks path.
9. Check the connectors and wires for damage.

If all above are OK, replace Exit 1 Sensor (PL 16.7). If the problem continues, replace the Exit 2 Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-139 CVT Invert Sensor Off Jam RAP

BSD-ON:5.4/5.5/5.6

After the Registration Sensor turned Off during the Read operation, the Invert Sensor did not turn Off within the specified time.

Initial Actions

- Power Off than On

Procedure

Check the installation and operation of the Invert Gate. **The Invert Gate is installed and it works.**

Y N
| Install the Invert Gate correctly.

Execute Component Control [005-211]. Actuate the DADF Invert Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J780 and P/J761. **P/J780 and P/J761 are connected correctly.**

Y N
| Connect P/J780 and P/J761.

Check the wire between J780 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 5/Flag 6). **The wire between J780 and J761 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-9 (+) and GND (-) (BSD 5.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-8 (+) and GND (-) (BSD 5.4 Flag 5). Actuate the DADF Invert Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF Invert Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
| Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
| Connect P/J765 and P/J755.

A B

A

B

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Execute Component Control [005-072]. **The Exit Nip Release Solenoid can be heard.**

Y

N

Check the connections of P/J766 and P/J756. **P/J766 and P/J756 are connected correctly.**

Y N

Connect P/J766 and P/J756.

Check the wire between P756 and J766 for an open circuit or a short circuit (BSD 5.6 Flag 2). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.4) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-141 CVT Feed Sensor Off Jam

BSD-ON:5.4

Pre-regi Sensor turns Off before Feed Sensor turns Off.

Procedure

If the problem occurs frequently, check if Multi-feed or Shingling feed/Slip at feed occurs.

1. Check each Roll surface has contamination/foreign substance attached.
2. Check each Roll surface has foreign substance attached.
3. Check Torque Limiter works normally.
4. Check each Motor works normally.
5. Check each Roll feed force is within normal range
6. Check the connectors and wires for damage.

If all above are OK, replace Feed Sensor,(PL 16.9). If the problem continues, replace the Nudger Motor (PL 16.5). If the problem persists, replace the DADF PWB (PL 16.3).

005-142 CVT Exit 1 Sensor Off Jam (Side 2)

BSD-ON:5.4

Exit 1 Sensor does not turn Off in specified time from Exit 2 Sensor Off in Reverse Output operation.

Procedure

If the problem occurs frequently, check the following:

1. There is any area in document path that interferes with document feed.
2. Any foreign substance is attached to Roll surface.
3. Roll surface has worn abnormally.
4. Invert Gate operation is normal.
5. Regi Motor rotates normally.
6. Exit Roll performs normal Nip operation (Nip Release Solenoid operation included.)
7. Check the connectors and wires for damage.

If all above are OK, replace Exit 1 Sensor (PL 16.7). If the problem continues, replace the Exit 2 Sensor (PL 16.7). If the problem persists, replace the DADF PWB (PL 16.3).

005-143 CVT Exit 2 Sensor Off Jam

BSD-ON:5.4

Exit 2 Sensor does not turn Off in specified time from Exit 2 Sensor On

Procedure

If the problem occurs frequently, check the following:

1. Check if there is anything at Exit that prevents the document output.
2. Check if there is any area in the path, from Exit Rolls and output area, that interferes with document feed.
3. Exit Motor rotates normally. If something is wrong with rotation such as step-out, check to see if some foreign substance in Exit Motor or any other thing prevents its rotation.

005-144 CVT Pre Reg Sensor Jam

BSD-ON:5.4

Pre Regi Sensor turns ON earlier than the specified timing due to document Skew.

Procedure

Caused by Big Skew at start of feed. To perform investigation on cause of Skew. Ensure the following:

1. Document Guide is set correctly.
2. Nudger Roll is aligned correctly against Document Tray.
3. Feed Roll and Retard Roll does not contact at some point improperly.
4. Curl is not so big.
5. Size combination is within spec. (Mixed Sizes)

005-145 CVT Registration Sensor Off Jam (Invert) RAP

BSD-ON:5.4/5.5

After the DADF Pre Registration Sensor turned Off at Invert, the Registration Sensor did not turn Off within the specified time.

Initial Actions

- Open the DADF Top Cover and remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-110]. Actuate the DADF Registration Sensor with paper.

The display changes.

Y N
| Check the connections of P/J782 and P/J761. **P/J782 and P/J761 are connected correctly.**

Y N
| Connect P/J782 and P/J761.

Check the wire between J782 and J761 for an open circuit or a short circuit (BSD 5.5 Flag 1/Flag 2). **The wire between J782 and J761 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-15 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-14 (+) and GND (-) (BSD 5.5 Flag 1). Actuate the DADF Registration Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-001]. **The DADF Feed Motor starts up.**

Y N
| Check the connections of P/J764 and P/J754. **P/J764 and P/J754 are connected correctly.**

Y N
| Connect P/J764 and P/J754.

Check the wire between J764 and J754 for an open circuit or a short circuit (BSD 5.5 Flag 1). **The wire between J764 and J754 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

A B

A B
Measure the voltage between the DADF PWB P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Feed Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
Connect P/J765 and P/J755.

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-146 CVT Pre Registration Sensor Off Jam RAP

BSD-ON:5.4/5.5/5.6

1. After the DADF Feed Out Sensor turned Off in 1 Sided mode, the DADF Pre Registration Sensor did not turn Off within the specified time.
2. After the DADF Registration Motor turned On in 2 Sided mode, the DADF Pre Registration Sensor did not turn Off within the specified time.

Initial Actions

Power Off than On

Procedure

Check the installation and operation of the Invert Gate. **The Invert Gate is installed and it works.**

Y N
Install the Invert Gate correctly.

Execute Component Control [005-206]. Actuate the DADF Pre Registration Sensor with paper.

The display changes.

Y N
Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N
Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N
Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N
Connect P/J765 and P/J755.

A B

A

B

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control [005-072]. **The Exit Nip Release Solenoid can be heard.**

Y N

Check the connections of P/J766 and P/J756. **P/J766 and P/J756 are connected correctly.**

Y N

Connect P/J766 and P/J756.

Check the wire between P756 and J766 for an open circuit or a short circuit (BSD 5.6 Flag 2). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.4) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-147 CVT Pre Registration Sensor Off Jam (Invert) RAP

BSD-ON:5.4/5.5/5.6

After the DADF Registration Motor turned On at Invert, the DADF Pre Registration Sensor did not turn Off within the specified time.

Initial Actions

Power Off than On

Procedure

Check the installation and operation of the Invert Gate. **The Invert Gate is installed and it works.**

Y N

Install the Invert Gate correctly.

Execute Component Control [005-206]. Actuate the DADF Pre Registration Sensor with paper.

The display changes.

Y N

Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N

Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-026]. **The DADF Registration Motor starts up.**

Y N

Check the connections of P/J765 and P/J755. **P/J765 and P/J755 are connected correctly.**

Y N

Connect P/J765 and P/J755.

A

B

A

B

Check the wire between J765 and J755 for an open circuit or a short circuit (BSD 5.5 Flag 2). **The wire between J765 and J755 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Registration Motor (PL 16.9) If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control [005-072]. **The Exit Nip Release Solenoid can be heard.**

Y N

Check the connections of P/J766 and P/J756. **P/J766 and P/J756 are connected correctly.**

Y N

Connect P/J766 and P/J756.

Check the wire between P756 and J766 for an open circuit or a short circuit (BSD 5.6 Flag 2). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.4) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-150 CVT Holed Paper Feed Sensor Off Jam

BSD-ON:5.4

Feed Sensor does not turn Off in specified time from Feed Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-151 CVT Holed Paper Pre Reg Sensor Off Jam

BSD-ON:5.4

Pre Reg Sensor does not turn Off in specified time from Pre Reg Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-152 CVT Holed Paper Reg Sensor Off Jam

BSD-ON:5.4

Reg Sensor does not turn Off in specified time from Reg Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-153 CVT Holed Paper Pre Reg Sensor Off Jam

BSD-ON:5.4

Pre Reg Sensor does not turn Off in specified time from Pre Reg Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-154 CVT Holed Paper Out Sensor Off Jam

BSD-ON:5.4

Feed Sensor does not turn Off in specified time from Out Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-155 CVT Holed Paper Simplex Exit 1 Sensor Off Jam

BSD-ON:5.4

Exit 1 Sensor does not turn Off in specified time from Exit 1 Sensor On in holed document mode. (Simplex)

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-156 CVT Holed Paper Duplex Exit 1 Sensor Off Jam

BSD-ON:5.4

Exit 1 Sensor does not turn Off in specified time from Exit 1 Sensor On in holed document mode. (Duplex)

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-157 CVT Holed Paper Invert Sensor Off Jam

BSD-ON:5.4

Invert Sensor does not turn Off in specified time from Invert Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-158 CVT Holed Paper Exit 2 Sensor Off Jam

BSD-ON:5.4

Exit 2 Sensor does not turn Off in specified time from Exit 2 Sensor On in holed document mode.

Procedure

Ensure that a point on circumference (farthest from trail edge), not a center, of a hole on trail edge side is 19mm or less from trail edge.

005-160 DADF Tray Lift Up Fail on running (Document Set)

BSD-ON:5.4

The following is detected: Level Sensor does not turn On or Bottom Sensor does not turn On in specified time from start of Tray Lift Up when document is set. (Detected during Run, during Stop, or during Purge)

Procedure

When the document is removed, this fault is released. When this problem occurs frequently, check Level Sensor output/Tray Motor operation/Tray Drive system (Torque Limiter)/Sensor Actuator.

Check the connectors and wires for damage.

If all above are OK, replace the DADF PWB (PL 16.3).

005-190 Feed Motor Logic Error Jam

BSD-ON:5.5

Feed Motor, rotating CW, does not start CCW rotation (Invert start) in specified time from Invert Sensor Off (Invert operation)

Procedure

Follow the instructions displayed on UI

005-194 Mixed Size Mismatch RAP

BSD-ON:5.1

In Mixed Size Originals, it was detected that the Fast Scan Direction size was different from the width of the document guide.

Initial Actions

Power Off than On

Check the document guide and repeat the operation.

Check the operation of the Tray Side Guide (Front).

Check the operation of the Tray Side Guide (Rear).

Procedure

Execute Component Control [005-221]. Actuate the DADF Tray Size 1 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J771 and P/J759. **P/J771 and P/J759 are connected correctly.**

Y N

Connect P/J771 and P/J759.

Check the wire between J771 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 1/Flag 2). **The wire between J771 and J759 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P759-3 (+) and GND (-) (BSD 5.1 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P759-2 (+) and GND (-) (BSD 5.1 Flag 1). Actuate the DADF Tray Size 1 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Tray Size 1 Sensor (PL 16.10).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-222]. Actuate the DADF Tray Size 2 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J772 and P/J759. **P/J772 and P/J759 are connected correctly.**

Y N

Connect P/J772 and P/J759.

A B

A B

Check the wire between J772 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 3/Flag 4). **The wire between J772 and J759 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P759-6 (+) and GND (-) (BSD 5.1 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P759-5 (+) and GND (-) (BSD 5.1 Flag 3). Actuate the DADF Tray Size 2 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Tray Size 2 Sensor (PL 16.10).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-195 Size Mismatch Jam

Different size document detected without Document Size Mix mode selected.

Procedure

Follow the instructions displayed on UI.

005-196 CVT Size Mismatch RAP

BSD-ON:5.1

The second and subsequent documents are different size to the first document.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-221]. Actuate the DADF Tray Size 1 Sensor with paper. **The display changes.**

Y N
Check the connections of P/J771 and P/J759. **P/J771 and P/J759 are connected correctly.**

Y N
Connect P/J771 and P/J759.

Check the wire between J771 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 1/Flag 2). **The wire between J771 and J759 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P759-3 (+) and GND (-) (BSD 5.1 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P759-2 (+) and GND (-) (BSD 5.1 Flag 1). Actuate the DADF Tray Size 1 Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Tray Size 1 Sensor (PL 16.10).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-222]. Actuate the DADF Tray Size 2 Sensor with paper. **The display changes.**

Y N
Check the connections of P/J772 and P/J759. **P/J772 and P/J759 are connected correctly.**

Y N
Connect P/J772 and P/J759.

Check the wire between J772 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 3/Flag 4). **The wire between J772 and J759 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B

A B

Measure the voltage between the DADF PWB P759-6 (+) and GND (-) (BSD 5.1 Flag 4).
The voltage is approx. +5VDC.

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P759-5 (+) and GND (-) (BSD 5.1 Flag 3).
Actuate the DADF Tray Size 2 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Tray Size 2 Sensor (PL 16.10).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-197 Prohibit Combine Size RAP

BSD-ON:5.1

A prohibited size combination was detected.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-221]. Actuate the DADF Tray Size 1 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J771 and P/J759. **P/J771 and P/J759 are connected correctly.**

Y N

Connect P/J771 and P/J759.

Check the wire between J771 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 1/Flag 2). **The wire between J771 and J759 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P759-3 (+) and GND (-) (BSD 5.1 Flag 2).
The voltage is approx. +5VDC.

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P759-2 (+) and GND (-) (BSD 5.1 Flag 1). Actuate the DADF Tray Size 1 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Tray Size 1 Sensor (PL 16.10).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-222]. Actuate the DADF Tray Size 2 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J772 and P/J759. **P/J772 and P/J759 are connected correctly.**

Y N

Connect P/J772 and P/J759.

Check the wire between J772 and J759 for an open circuit or a short circuit (BSD 5.1 Flag 3/Flag 4). **The wire between J772 and J759 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

A B

A B
 Measure the voltage between the DADF PWB P759-6 (+) and GND (-) (BSD 5.1 Flag 4).
The voltage is approx. +5VDC.
Y N
 | Replace the DADF PWB (PL 16.3).
 Measure the voltage between the DADF PWB P759-5 (+) and GND (-) (BSD 5.1 Flag 3).
 Actuate the DADF Tray Size 2 Sensor with paper. **The voltage changes.**
Y N
 | Replace the DADF Tray Size 2 Sensor (PL 16.10).
 Replace the DADF PWB (PL 16.3).
 Replace the DADF PWB (PL 16.3).

005-198 Document Length RAP

BSD-ON:5.4

The system detected a document with a length shorter than 115mm in the Slow Scan Direction.

Initial Actions

- Power Off than On

Procedure

Check the document size. **The size of the document is within the specification.**

Y N
 | Use a paper size within the specification.

Execute Component Control [005-205]. Actuate the DADF Feed Out Sensor with paper. **The display changes.**

Y N
 | Check the connections of P/J769 and P/J758. **P/J769 and P/J758 are connected correctly.**

Y N
 | Connect P/J769 and P/J758.

Check the wire between J769 and J758 for an open circuit or a short circuit (BSD 5.4 Flag 13/Flag 14). **The wire between J769 and J758 is conducting without an open circuit or a short circuit.**

Y N
 | Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-3 (+) and GND (-) (BSD 5.4 Flag 14). **The voltage is approx. +5VDC.**

Y N
 | Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P758-2 (+) and GND (-) (BSD 5.4 Flag 13).
 Actuate the DADF Feed Out Sensor with paper. **The voltage changes.**

Y N
 | Replace the DADF Feed Out Sensor (PL 16.9).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-206]. Actuate the DADF Pre Registration Sensor with paper. **The display changes.**

Y N
 | Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N
 | Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

A

A

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-199 Document Length RAP

BSD-ON:5.4

The system detected a document with the following length in the Slow Scan Direction:

- Simplex mode: 672.4mm or longer
- Duplex mode: 480.1mm or longer

Initial Actions

- Power Off than On

Procedure

Check the document size. **The size of the document is within the specification.**

Y N

Use a paper size within the specification.

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N

Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N

Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [005-205]. Actuate the DADF Feed Out Sensor with paper. **The display changes.**

Y N

Check the connections of P/J769 and P/J758. **P/J769 and P/J758 are connected correctly.**

Y N

Connect P/J769 and P/J758.

Check the wire between J769 and J758 for an open circuit or a short circuit (BSD 5.4 Flag 13/Flag 14). **The wire between J769 and J758 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-3 (+) and GND (-) (BSD 5.4 Flag 14). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P758-2 (+) and GND (-) (BSD 5.4 Flag 13). Actuate the DADF Feed Out Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Feed Out Sensor (PL 16.9).

Replace the DADF PWB (PL 16.3).

A

A

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor with paper.

The display changes.

Y N

Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N

Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-210 DADF Download Fail

DADF Download mode detected at IISS start (Power On, Energy Save recovery included).

DADF Download failed. ROM is broken.

Power ON after replacement of ROM by half-burnt ROM in field.

Procedure

Replace the DADF PWB (PL 16.3).

005-274 Original Size Sensor Fail

DADF Document Size Detect Sensor failure detected. (At Power ON or when document setting detected.)

Procedure

To check Original Size Sensor for paper strip being stuck. Check the connections between the sensor and the DADF PWB. If OK, replace the Original Size Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-275 DADF RAM Failure RAP

BSD-ON:3.5

DADF RAM Fail. An error was detected in the DADF PWB RAM. (Checked when power is switched on.)

Procedure

If switching the Machine OFF then ON does not resolve the problem, replace DADF PWB (PL 16.3).

005-280 DADF EEPROM RAP

BSD-ON:3.5

The DADF-EEPROM failed during the Read/Write operation.

Initial Actions

- Power Off than On

Procedure

Check the connection of each DADF PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **[005-280] reoccurs.**

Y N
| End

Replace the DADF PWB (PL 16.3).

005-281 DADF Tray Lift Down Failure

Bottom Sensor does not turn ON in specified time from start of DADF Tray Down.

Procedure

To check Bottom Sensor output/Tray Motor operation/Tray Drive system (Torque Limiter)/Sensor Actuator. Check the connections between the sensor and the DADF PWB. If OK, replace the Bottom Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-282 DADF Tray Lift Up Failure

Bottom Sensor does not turn Off in specified time from start of DADF Tray Up in Initialize operation with no document being set.

Procedure

To check Bottom Sensor output/Tray Motor operation/Tray Drive system (Torque Limiter)/Sensor Actuator. Check the connections between the sensor and the DADF PWB. If OK, replace the Bottom Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-283 DADF Nudger Sensor RAP

BSD-ON:5.2

After the DADF Nudger Motor turns On, the DADF Nudger Sensor does not turn On.

Initial Actions

- Power Off than On

Procedure

Manually operate the Feed Head mechanism. **The Feed Head mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation.

Execute Component Control [005-225]. Cover the DADF Nudger Sensor receiver with paper. **The display changes.**

Y N

Check the connections of P/J788 and P/J786. **P/J788 and P/J786 are connected correctly.**

Y N

Connect P/J788 and P/J786.

Check the wire between J788 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 3/Flag 4). **The wire between J788 and J786 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-9 (+) and GND (-) (BSD 5.2 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P786-8 (+) and GND (-) (BSD 5.2 Flag 3). Cover the DADF Nudger Sensor receiver with paper. **The voltage changes.**

Y N

Replace the DADF Nudger Sensor (PL 16.5).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-090]. **The DADF Nudger Motor can be heard.**

Y N

Check the connections of P/J787 and P/J786. **P/J787 and P/J786 are connected correctly.**

Y N

Connect P/J787 and P/J786.

Check the wire between J787 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 5). **The wire between J787 and J786 is conducting without an open circuit or a short circuit.**

A

A

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB (PL 15.3P786-1 (+) and GND (-) (BSD 5.2 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Nudger Motor (PL 16.6) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-284 DADF APS Sensor Logic RAP

BSD-ON:5.4

The combinations of outputs from the DADF APS 1 Sensor, DADF APS 2 Sensor and DADF APS 3 Sensor are abnormal.

Initial Actions

- Power Off than On

Procedure

Execute Component Control [005-218]. Actuate the DADF APS 1 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J777 and P/J761. **P/J777 and P/J761 are connected correctly.**

Y N

Connect P/J777 and P/J761.

Check the wire between J777 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 7/Flag 8). **The wire between J777 and J761 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-6 (+) and GND (-) (BSD 5.4 Flag 8). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-5 (+) and GND (-) (BSD 5.4 Flag 7). Actuate the DADF APS 1 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF APS 1 Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-219]. Actuate the DADF APS 2 Sensor with paper. **The display changes.**

Y N

Check the connections of P/J778 and P/J761. **P/J778 and P/J761 are connected correctly.**

Y N

Connect P/J778 and P/J761.

Check the wire between J778 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 9/Flag 10). **The wire between J778 and J761 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

A B

A | **B**
 Measure the voltage between the DADF PWB P761-3 (+) and GND (-) (BSD 5.4 Flag 10). **The voltage is approx. +5VDC.**
Y | **N**
 | Replace the DADF PWB (PL 16.3).
 Measure the voltage between the DADF PWB P761-2 (+) and GND (-) (BSD 5.4 Flag 9). Actuate the DADF APS 2 Sensor with paper. **The voltage changes.**
Y | **N**
 | Replace the DADF APS 2 Sensor (PL 16.7).
 Replace the DADF PWB (PL 16.3).

Execute Component Control [005-220]. Actuate the DADF APS 3 Sensor with paper. **The display changes.**

Y | **N**
 Check the connections of P/J779 and P/J785. **P/J779 and P/J785 are connected correctly.**
Y | **N**
 | Connect P/J779 and P/J785.
 Check the wire between J779 and J785 for an open circuit or a short circuit (BSD 5.4 Flag 11/Flag 12). **The wire between J779 and J785 is conducting without an open circuit or a short circuit.**
Y | **N**
 | Repair the open circuit or short circuit.
 Measure the voltage between the DADF PWB P785-3 (+) and GND (-) (BSD 5.4 Flag 12). **The voltage is approx. +5VDC.**
Y | **N**
 | Replace the DADF PWB (PL 16.3).
 Measure the voltage between the DADF PWB P785-2 (+) and GND (-) (BSD 5.4 Flag 11). Actuate the DADF APS 3 Sensor with paper. **The voltage changes.**
Y | **N**
 | Replace the DADF APS 3 Sensor (PL 16.7).
 Replace the DADF PWB (PL 16.3).
 Replace the DADF PWB (PL 16.3).

005-285 DADF Nudger Lift Up RAP

BSD-ON:5.2

After the DADF Nudger Motor started reverse rotation, the DADF Nudger Sensor did not turn On within the specified time.

Initial Actions

- Power Off than On

Procedure

Manually operate the Feed Head mechanism. **The Feed Head mechanism moves smoothly.**

Y | **N**
 | Replace the parts that are interfering with operation.

Execute Component Control [005-225]. Actuate the DADF Nudger Sensor with paper. **The display changes.**

Y | **N**
 Check the connections of P/J788 and P/J786. **P/J788 and P/J786 are connected correctly.**

Y | **N**
 | Connect P/J788 and P/J786.

Check the wire between J788 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 3/Flag 4). **The wire between J788 and J786 is conducting without an open circuit or a short circuit.**

Y | **N**
 | Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-9 (+) and GND (-) (BSD 5.2 Flag 4). **The voltage is approx. +5VDC.**

Y | **N**
 | Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P786-8 (+) and GND (-) (BSD 5.2 Flag 3). Actuate the DADF Nudger Sensor with paper. **The voltage changes.**

Y | **N**
 | Replace the DADF Nudger Sensor (PL 16.5).

Replace the DADF PWB (PL 16.3).

Execute Component Control[005-090]. **The DADF Nudger Motor can be heard.**

Y | **N**
 Check the connections of P/J787 and P/J786. **P/J787 and P/J786 are connected correctly.**

Y | **N**
 | Connect P/J787 and P/J786.

Check the wire between J787 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 5). **The wire between J787 and J786 is conducting without an open circuit or a short circuit.**

A

A

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-1 (+) and GND (-) (BSD 5.2 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Nudger Motor (PL 16.6) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-286 DADF Feed Out Sensor RAP

BSD-ON:5.4

During document transport, before the DADF Feed Out Sensor turned Off, the DADF Pre Registration Sensor turned Off.

Initial Actions

Power Off than On

Procedure

Execute Component Control [005-205]. Actuate the DADF Feed Out Sensor with paper. **The display changes.**

Y N

Check the connections of P/J769 and P/J758. **P/J769 and P/J758 are connected correctly.**

Y N

Connect P/J769 and P/J758.

Check the wire between J769 and J758 for an open circuit or a short circuit (BSD 5.4 Flag 13/Flag 14). **The wire between J769 and J758 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-3 (+) and GND (-) (BSD 5.4 Flag 14). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P758-2 (+) and GND (-) (BSD 5.4 Flag 13). Actuate the DADF Feed Out Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Feed Out Sensor (PL 16.9).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-206]. Actuate the DADF Pre Registration Sensor with paper. **The display changes.**

Y N

Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N

Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

A B

A

B

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-301 DADF Top Cover Open

Detected the DADF Top Cover Opened.

Procedure

To check the Top Cover is Latched. Check the connections between the Top Cover Interlock Switch and the DADF PWB. If OK, replace the Top Cover Interlock Switch. If the problem persists, replace the DADF PWB (PL 16.3).

005-302 CVT Feeder Cover Interlock Open RAP

BSD-ON:1.3

The DADF Interlock is open.

Initial Actions

- Power Off than On

Procedure

Check opening/closing of the Feeder Cover. **The Feeder Cover can be opened/closed.**

Y N
| Reinstall the Feeder Cover correctly.

Check installation of the DADF Interlock Switch. **The DADF Interlock Switch is installed correctly.**

Y N
| Install the DADF Interlock Switch correctly.

Execute Component Control [005-212 DADF Interlock Switch]. Open and close the Feeder Cover. **The display changes.**

Y N
| Check the connections of P/J753, F1 and F2. **P/J753, F1 and F2 are connected correctly.**

Y N
| Connect P/J753, F1 and F2.

Check the wire between J753 and F1, and between J753 and F2 for an open circuit or a short circuit (BSD 1.3 Flag 7/Flag 8). **The wires between J753 and F1, and between J753 and F2 are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the DADF Interlock Switch between J753-2 and J753-1 (BSD 1.3 Flag 7/Flag 8). **The wire between J753-2 and J753-1 is connecting successfully when the DADF Interlock Switch contact is closed, and is insulated when the contact is opened.**

Y N
| Replace the DADF Interlock Switch (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-304 CVT Platen Interlock Open RAP

BSD-ON:6.1

The Platen Interlock is open.

Initial Actions

- Power Off than On

Procedure

Check opening/closing of the Platen Cover. **The Platen Cover can be opened/closed.**

Y N
| Reinstall the Platen Cover correctly.

Check the installation of the Platen Open Switch. **The Platen Open Switch is installed correctly.**

Y N
| Install the Platen Open Switch correctly.

Execute Component Control [062-300 Platen Open Switch]. **Open and close the Platen Cover. The display changes.**

Y N
| Check the connections of P/J727 and P/J722. **P/J727 and P/J722 are connected correctly.**

Y N
| Check the wire between J727 and J722 for an open circuit or a short circuit (BSD 6.1 Flag 3/Flag 4). The wire between J727 and J722 is conducting without an open circuit or a short circuit.

Connect P/J727 and P/J722.

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the Platen Open Switch between J722A-10 and J722A-11 (BSD 6.1 Flag 3/Flag 4). **The wire between J722A-10 and J722A-11 is connecting successfully when the Platen Open Switch contact is closed, and is insulated when the contact is opened.**

Y N
| Replace the Platen Open Switch (PL 13.4).

Replace the IIT/IPS PWB (PL 13.3).

Replace the IIT/IPS PWB (PL 13.3).

005-305 CVT Feeder Cover Interlock Open (running) RAP

BSD-ON:1.3

The system detected that the DADF Interlock was opened while the DADF was running (RUN/SUSPEND).

Initial Actions

- Power Off than On

Procedure

Check opening/closing of the Feeder Cover. **The Feeder Cover can be opened/closed.**

Y N

Reinstall the Feeder Cover correctly.

Check installation of the DADF Interlock Switch. **The DADF Interlock Switch is installed correctly.**

Y N

Install the DADF Interlock Switch correctly.

Execute Component Control [005-212 DADF Interlock Switch]. **Open and close the Feeder Cover. The display changes.**

Y N

Check the connections of P/J753, F1 and F2. **P/J753, F1 and F2 are connected correctly.**

Y N

Connect P/J753, F1 and F2.

Check the wire between J753 and F1, and between J753 and F2 for an open circuit or a short circuit (BSD 1.3 Flag 7/Flag 8). **The wires between J753 and F1, and between J753 and F2 are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the DADF Interlock Switch between J753-2 and J753-1 (BSD 1.3 Flag 7/Flag 8). **The wire between J753-2 and J753-1 is connecting successfully when the DADF Interlock Switch contact is closed, and is insulated when the contact is opened.**

Y N

Replace the DADF Interlock Switch (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-306 Tray Interlock Open while Running

Tray Interlock Open during DADF operation detected.

Procedure

To ensure that the Tray is Closed. Check the connections between the Tray Interlock Sensor and the DADF PWB. If OK, replace the Tray Interlock Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-307 CVT Platen Interlock Open on Running RAP

BSD-ON:6.1

The Platen Interlock is open while the DADF is running (RUN/SUSPEND).

Initial Actions

- Power Off than On

Procedure

Check opening/closing of the Platen Cover. **The Platen Cover can be opened/closed.**

Y N
| Reinstall the Platen Cover correctly.

Check the installation of the Platen Open Switch. **The Platen Open Switch is installed correctly.**

Y N
| Install the Platen Open Switch correctly.

Execute Component Control [062-300 Platen Open Switch]. **Open and close the Platen Cover. The display changes.**

Y N
| Check the connections of P/J27 and P/J22. **P/J27 and P/J22 are connected correctly.**

Y N
| Connect P/J27 and P/J22.

Check the wire between J27 and J22 for an open circuit or a short circuit (BSD 6.1 Flag 3/Flag 4). **The wire between J27 and J22 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the Platen Open Switch between J22-A10 and J22-A11 (BSD 6.1 Flag 3/Flag 4). **The wire between J22-A10 and J22-A11 is connecting successfully when the Platen Open Switch contact is closed, and is insulated when the contact is opened.**

Y N
| Replace the Platen Open Switch (PL 13.4).

Replace the IIT/IPS PWB (PL 13.3).

Replace the IIT/IPS PWB (PL 13.3).

005-906 CVT Feed Sensor RAP

BSD-ON:5.4

Paper remains on the DADF Feed Out Sensor.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-205 DADF Feed Out Sensor]. Actuate the DADF Feed Out Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J769 and P/J758. **P/J769 and P/J758 are connected correctly.**

Y N
| Connect P/J769 and P/J758.

Check the wire between J769 and J758 for an open circuit or a short circuit (BSD 5.4 Flag 13/Flag 14). **The wire between J769 and J758 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-3 (+) and GND (-) (BSD 5.4 Flag 14). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P758-2 (+) and GND (-) (BSD 5.4 Flag 13). Actuate the DADF Feed Out Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF Feed Out Sensor (PL 16.9).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-907 CVT Pre-Registration Sensor RAP

BSD-ON:5.4

Paper remains on the DADF Pre Registration Sensor.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-206 DADF Pre Registration Sensor]. Actuate the DADF Pre Registration Sensor with paper. **The display changes.**

Y N
Check the connections of P/J781 and P/J761. **P/J781 and P/J761 are connected correctly.**

Y N
Connect P/J781 and P/J761.

Check the wire between J781 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 3/Flag 4). **The wire between J781 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-12 (+) and GND (-) (BSD 5.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-11 (+) and GND (-) (BSD 5.4 Flag 3). Actuate the DADF Pre Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Pre Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-908 CVT Registration Sensor RAP

BSD-ON:5.4

Paper remains on the DADF Registration Sensor.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-110 DADF Registration Sensor]. Actuate the DADF Registration Sensor with paper. **The display changes.**

Y N
Check the connections of P/J782 and P/J761. **P/J782 and P/J761 are connected correctly.**

Y N
Connect P/J782 and P/J761.

Check the wire between J782 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 1/Flag 2). **The wire between J782 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-15 (+) and GND (-) (BSD 5.4 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-14 (+) and GND (-) (BSD 5.4 Flag 1). Actuate the DADF Registration Sensor with paper. **The voltage changes.**

Y N
Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-309 Left Hand Interlock Open while Running

Left Hand Interlock Open during DADF operation detected.

Procedure

To check the Dynamic Jam occurrence frequency and clear the problem Jam. Check the connections between the L/H Interlock Switch and the DADF PWB. If OK, replace the L/H Interlock Switch. If the problem persists, replace the DADF PWB (PL 16.3).

005-900 No Belt DADF Applicable Sensor Static Jam

Interlock Open during DADF operation.

Procedure

If the problem occurs frequently, to check Top Cover Latch. Check the connections between the Top Cover Interlock Switch and the DADF PWB. If OK, replace the Top Cover Interlock Switch. If the problem persists, replace the DADF PWB (PL 16.3).

005-901 Belt DADF Doc Sensor Static Jam

Document at Doc In Sensor at Power ON detected.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Doc In Sensor. Check the connections between the Doc In Sensor and the DADF PWB. If OK, replace the Doc In Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-902 Belt DADF Regi Sensor Static Jam

Document at Regi Sensor at Power ON detected.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Regi Sensor. Check the connections between the Regi Sensor and the DADF PWB. If OK, replace the Regi Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-903 Belt DADF Exit Sensor Static Jam

Document at Exit Sensor at Power ON detected.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Exit Sensor. Check the connections between the Exit Sensor and the DADF PWB. If OK, replace the Exit Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-904 Belt Dup Sensor Static Jam

Document at Dup Sensor at Power ON detected.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Dup Sensor. Check the connections between the Dup Sensor and the DADF PWB. If OK, replace the Dup Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-909 DADF Lead Sensor Static Jam

Lead Reg Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Lead Reg Sensor. Check the connections between the Lead Reg Sensor and the DADF PWB. If OK, replace the Lead Reg Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-910 DADF Out Sensor Static Jam

Out Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Out Sensor. Check the connections between the Out Sensor and the DADF PWB. If OK, replace the Out Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-911 DADF Exit 1 Sensor Static Jam

Exit1 Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Exit1 Sensor. Check the connections between the Exit1 Sensor and the DADF PWB. If OK, replace the Exit1 Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-912 DADF Exit 2 Sensor Static Jam

Exit2 Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on Exit2 Sensor. Check the connections between the Exit2 Sensor and the DADF PWB. If OK, replace the Exit2 Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-913 CVT Invert Sensor RAP

BSD-ON:5.4

Paper remains on the DADF Invert Sensor.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-211 DADF Invert Sensor]. **Actuate the DADF Invert Sensor with paper. The display changes.**

Y N
| Check the connections of P/J780 and P/J761. **P/J780 and P/J761 are connected correctly.**

Y N
| Connect P/J780 and P/J761.

Check the wire between J780 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 5/Flag 6). **The wire between J780 and J761 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-9 (+) and GND (-) (BSD 5.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-8 (+) and GND (-) (BSD 5.4 Flag 5). Actuate the DADF Invert Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF Invert Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-914 DADF APS1, 2, 3, Sensor Static Jam

APS1, 2, 3, Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on APS1, 2, 3, Sensor. Check the connections between the APS1, 2, 3, Sensor and the DADF PWB. If OK, replace the APS1, 2, 3, Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-915 CVT APS No1 Sensor RAP

BSD-ON:5.4

Paper remains on the APS Sensor 1.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-218 DADF APS 1 Sensor]. Actuate the DADF APS 1 Sensor with paper. **The display changes.**

Y N
Check the connections of P/J777 and P/J761. **P/J777 and P/J761 are connected correctly.**

Y N
Connect P/J777 and P/J761.

Check the wire between J777 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 7/Flag 8). **The wire between J777 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-6 (+) and GND (-) (BSD 5.4 Flag 8). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-5 (+) and GND (-) (BSD 5.4 Flag 7). Actuate the DADF APS 1 Sensor with paper. **The voltage changes.**

Y N
Replace the DADF APS 1 Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-916 CVT APS No2 Sensor RAP

BSD-ON:5.4

Paper remains on the APS Sensor 2.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-219 DADF APS 2 Sensor]]. Actuate the DADF APS 2 Sensor with paper. **The display changes.**

Y N
Check the connections of P/J778 and P/J761. **P/J778 and P/J761 are connected correctly.**

Y N
Connect P/J778 and P/J761.

Check the wire between J778 and J761 for an open circuit or a short circuit (BSD 5.4 Flag 9/Flag 10). **The wire between J778 and J761 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P761-3 (+) and GND (-) (BSD 5.4 Flag 10). **The voltage is approx. +5VDC.**

Y N
Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P761-2 (+) and GND (-) (BSD 5.4 Flag 9). Actuate the DADF APS 2 Sensor with paper. **The voltage changes.**

Y N
Replace the DADF APS 2 Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-917 CVT APS No3 Sensor RAP

BSD-ON:5.4

Paper remains on the APS Sensor 3.

Initial Actions

- Remove the paper.
- Power Off than On

Procedure

Execute Component Control [005-220 DADF APS 3 Sensor]. Actuate the DADF APS 3 Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J779 and P/J785. **P/J779 and P/J785 are connected correctly.**

Y N
| Connect P/J779 and P/J785.

Check the wire between J779 and J785 for an open circuit or a short circuit (BSD 5.4 Flag 11/Flag 12). **The wire between J779 and J785 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P785-3 (+) and GND (-) (BSD 5.4 Flag 12). **The voltage is approx. +5VDC.**

Y N
| Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P785-2 (+) and GND (-) (BSD 5.4 Flag 11). Actuate the DADF APS 3 Sensor with paper. **The voltage changes.**

Y N
| Replace the DADF APS 3 Sensor (PL 16.7).

Replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-918 CVT Invert Sensor Static Jam

CVT Invert Sensor On detected at the timing below:

1. Power On
2. Feeder Cover Interlock Close
3. Platen Interlock Close.

Procedure

If the problem occurs frequently, make sure that there is no obstacle blocking the light path on CVT Invert Sensor. Check the connections between the CVT Invert Sensor and the DADF PWB. If OK, replace the CVT Invert Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-919 DADF Tray Lift Up Failure not during Job

The following detected:

With the document being set, Level Sensor does not turn On or Bottom Snr does not turn Off in a specified time from start of Tray Lift Up.

Detected except for During Run, during Stop, or during Purge.

Procedure

Removal of set document cancels the fault. If it occurs frequently, check the Level Sensor, Tray Motor, Tray Drive Assembly, area for binding, damage, and/or debris. Check the connections between the Level Sensor and the DADF PWB. If OK, replace the Level Sensor. If the problem persists, replace the DADF PWB (PL 16.3).

005-940 DADF No Original Failure

Removal of Documents detected.

Procedure

Follow instructions on the UI Screen

005-941 DADF Not Enough Documents Failure

After all originals returned, shortage of documents detected.

Procedure

Follow instructions on the UI Screen

005-942 Document Loading RAP

BSD-ON:5.2

Due to too many document sheets, no documents could not be fed.

Initial Actions

Reduce the no. of sheets and repeat the operation.

Power Off than On

Procedure

Manually operate the Feed Head mechanism. **The Feed Head mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation.

Execute Component Control [005-225 DADF Nudger Sensor]. Actuate the DADF Nudger Sensor with paper. **The display changes.**

Y N

Check the connections of P/J788 and P/J786. **P/J788 and P/J786 are connected correctly.**

Y N

Connect P/J788 and P/J786.

Check the wire between J788 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 3/Flag 4). **The wire between J788 and J786 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-9 (+) and GND (-) (BSD 5.2 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 16.3).

Measure the voltage between the DADF PWB P786-8 (+) and GND (-) (BSD 5.2 Flag 3). Actuate the DADF Nudger Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Nudger Sensor (PL 16.5).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-090]. **The DADF Nudger Motor can be heard.**

Y N

Check the connections of P/J787 and P/J786. **P/J787 and P/J786 are connected correctly.**

Y N

Connect P/J787 and P/J786.

A B

A

B

Check the wire between J787 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 5). **The wire between J787 and J786 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-1 (+) and GND (-) (BSD 5.2 Flag 5).

The voltage is approx. +24VDC.

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Nudger Motor (PL 16.6) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

005-943 DADF Tray Lift Up RAP

BSD-ON:5.2

During document feed, the DADF Nudger Solenoid did not turn On.

Initial Actions

Reduce the no. of sheets and repeat the operation.

Power Off than On

Procedure

Manually operate the Feed Head mechanism. **The Feed Head mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation.

Execute Component Control [005-225 DADF Nudger Sensor]. Actuate the DADF Nudger Sensor with paper. **The display changes.**

Y N

Check the connections of P/J788 and P/J786. **P/J788 and P/J786 are connected correctly.**

Y N

Connect P/J788 and P/J786.

Check the wire between J788 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 3/Flag 4). **The wire between J788 and J786 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-9 (+) and GND (-) (BSD 5.2 Flag 4).

The voltage is approx. +5VDC.

Y N

Replace the DADF PWB (PL 15.3).

Measure the voltage between the DADF PWB P786-8 (+) and GND (-) (BSD 5.2 Flag 3). Actuate the DADF Nudger Sensor with paper. **The voltage changes.**

Y N

Replace the DADF Nudger Sensor (PL 16.5).

Replace the DADF PWB (PL 16.3).

Execute Component Control [005-090 DADF Nudger Motor]. **The DADF Nudger Motor can be heard.**

Y N

Check the connections of P/J787 and P/J786. **P/J787 and P/J786 are connected correctly.**

Y N

Connect P/J787 and P/J786.

A B

A

B

Check the wire between J787 and J786 for an open circuit or a short circuit (BSD 5.2 Flag 5). **The wire between J787 and J786 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P786-1 (+) and GND (-) (BSD 5.2 Flag 5).

The voltage is approx. +24VDC.

Y N

Replace the DADF PWB (PL 16.3).

Replace the DADF Nudger Motor (PL 16.6) If the problem persists, replace the DADF PWB (PL 16.3).

Replace the DADF PWB (PL 16.3).

010-311 Fuser Rear Thermistor Disconnected RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat roll has no paper wrapped round it.**

Y N
|
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
|
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

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Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-313 Control (Center) Thermistor RAP

BSD-ON:10.2

The Control (Center) Thermistor has an open circuit.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
| Install the Fuser Unit securely.

Check the resistance of the Center Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and P615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and P615 conducts as expected.**

Y N
| Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-314 Rear Thermistor RAP

BSD-ON:10.1

The Rear Thermistor has an open circuit.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
| Install the Fuser Unit securely.

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J410 and J615 conducts as expected.**

Y N
| Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-318 Hot-Sagging Recovery RAP

BSD-ON:4.1/10.2

The Rear Thermistor detected that the machine does not recover from Hot-Sagging in time.

Initial Actions

- Power Off/On

Procedure

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
| Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
| Install the Fuser Unit securely.

Close the LH Cover and the Front Cover.

Execute Component Control [042-001 Main Motor ON]. **The Main Motor can be heard.**

Y N
| Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
| Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-319 Fuser Center Thermistor Differential Amp RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
| Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
| Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
| Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-320 Heat Roll Over Temperature RAP

BSD-ON:10.2

- The Control (Center) Thermistor detected a temperature higher than the specified value.
- The Rear Thermistor detected a temperature higher than the specified value.

Initial Actions

Power Off/On

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k Ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-11 and P615-12 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J409 and J513 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-327 Fuser On Time RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
|
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
|
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-328 Fuser Warm-up Time RAP

BSD-ON:10.2 and 1.1

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check Fuse F002 on the Power Unit (PL 11.1) for an open circuit
- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
|
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
|
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

A

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
|
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

A

Status-indicator-raps

010-328

January 2007
2-118

Revision
WorkCentre 7132

010-330 Fuser Motor Failure RAP

BSD-ON:4.1B

The Fuser Motor is not rotating at the specified speed.

Initial Actions

- Power OFF/ON
- Reload the Xero/Developer Cartridge (PL 4.1) and the Fuser Unit (PL 7.1).

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control [010-001 Fuser Motor ON]. **The Fuser Motor can be heard.**

Y N
|
Go to the OF 4 (Fuser Drive Assy RAP).

Check the installation of the Fuser Unit (PL 1.1). **The Fuser Drive Assembly is installed correctly.**

Y N
|
Install the Main Drive Assembly correctly.

Check the wire between P/J412 and P/J226 for an open circuit or a short circuit (BSD 4.1A). **The wires are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Manually rotate the Fuser Motor rotor. **It rotates smoothly.**

Y N
|
Check for foreign substances that are interfering with operation or installation failure. **Foreign substances or installation failure are found.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Remove the foreign substances that are interfering with operation and correct the installation failure.

Replace the Fuser Unit (PL 7.1) If the problem persists, replace the MCU PWB (PL 11.1).

010-331 Fuser Rear Thermistor Over Temp RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The heat Roll has no paper wrapped round it.**

Y N
|
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
|
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
|
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-332 Fuser Center Thermistor Disconnected RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-333 Fuser Center Thermistor Overtemp RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-334 Fuser Center Thermistor Broken RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-335 Fuser Center Thermistor Out of Range RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-336 Sub Lamp Disconnection Failure RAP

BSD-ON:10.2

- After the Main Lamp turned On during warm up, the Control Thermistor did not detect READY temperature within the specified time.
- After the Main Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during standby, the Control Thermistor did not detect a specific temperature within the specified time.
- After the empty rotation started, the Control Thermistor did not detect the empty rotation finishing temperature within the specified time.
- After the Main Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.
- After the Sub Lamp turned On during printing, the Control Thermistor did not detect a specific temperature within the specified time.

Initial Actions

- Check the voltage supplies to the machine and to and from the LVPS
- Check the Indoor Temperature

Procedure

NOTE: Ensure that NVM location 744-004 is set to zero (0). If the problem continues, replace the Fuser Unit (PL 7.1)

Check for paper in the Fuser. **The Heat Roll has no paper wrapped round it.**

Y N
Remove the paper.

Check the installation of the Fuser Unit. **The Fuser Unit is securely installed.**

Y N
Install the Fuser Unit securely.

Remove the Fuser Unit. Check the conductivity of the contact points of the Thermostat. **The contact points are connected.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Sub Lamp between P615-6 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Main Lamp between P615-3 and P615-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Control (Center) Thermistor between P615-5 and P615-9 (BSD 10.2 Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the resistance of the Rear Thermistor between P615-12 and P615-11 (BSD 10.2 Flag 3/Flag 2). **The resistance is 3k ohms or higher.**

Y N
Replace the Fuser Unit (PL 7.1).

Check the wire between J422 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 3/Flag 2). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J5 and J615 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J5 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Check the wire between J409 and J513 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J422 and J615 conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 7.1). If the problem persists, replace the Power Unit (PL 11.1). If the problem persists, replace the MCU PWB (PL 11.1).

010-398 Fuser Lock RAP

BSD-ON:10.3

The Fuser Fan failed.

Initial Actions

- Power Off/On

Procedure

Turn on the power.

Visually check the rotation of the Fuser Fan. **The Fuser Fan is rotating.**

Y N
Measure the voltage between the MCU PWB J423-1 (+) and J423-4 (-) (BSD 10.3 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Check the wires between MCU PWB and the Fuser Fan for an open or a short circuit (BSD 10.3 Flag 1/Flag 3). **The wires between MCU PWB and the Fuser Fan conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Measure the voltage between the MCU PWB J423-3 (+) and GND (-) (BSD 10.3 Flag 4). **The voltage is approx. 0VDC.**

Y N
Check the wire between J423-3 and the Fuser Fan for an open circuit or a short circuit (BSD 10.3 Flag 4). **The wire conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Replace the MCU PWB (PL 11.1).

010-420 Fuser Near end of life RAP

BSD-ON:10.3

The Fuser is near end of life.

Initial Actions

- Power Off/On

Procedure

Turn on the power.

Visually check the rotation of the Fuser Fan. **The Fuser Fan is rotating.**

Y N
Measure the voltage between the MCU PWB J423-1 (+) and J423-4 (-) (BSD 10.3 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Check the wires between MCU PWB and the Fuser Fan for an open or a short circuit (BSD 10.3 Flag 1/Flag 3). **The wires between MCU PWB and the Fuser Fan conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Measure the voltage between the MCU PWB J423-3 (+) and GND (-) (BSD 10.3 Flag 4). **The voltage is approx. 0VDC.**

Y N
Check the wire between J423-3 and the Fuser Fan for an open circuit or a short circuit (BSD 10.3 Flag 4). **The wire conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Replace the MCU PWB (PL 11.1).

010-421 Fuser end of life RAP

BSD-ON:10.3

The Fuser is near end of life.

Initial Actions

- Power Off/On
- Clear away foreign substances and dust accumulated at the exhaust.

Procedure

Turn on the power.

Visually check the rotation of the Fuser Fan. **The Fuser Fan is rotating.**

Y N
Measure the voltage between the MCU PWB J423-1 (+) and J423-4 (-) (BSD 10.3 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Check the wires between MCU PWB and the Fuser Fan for an open or a short circuit (BSD 10.3 Flag 1/Flag 3). **The wires between MCU PWB and the Fuser Fan conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Measure the voltage between the MCU PWB J423-3 (+) and GND (-) (BSD 10.3 Flag 4). **The voltage is approx. 0VDC.**

Y N
Check the wire between J423-3 and the Fuser Fan for an open circuit or a short circuit (BSD 10.3 Flag 4). **The wire conducts with less than a few ohms.**

Y N
Repair the open circuit or short circuit.

Replace the Fuser Fan (PL 11.1).

Replace the MCU PWB (PL 11.1).

012-111 Finisher H-Transport Entrance Sensor Off Jam RAP

BSD-ON:12.2

After the H-Transport Entrance Sensor turned On, the H-Transport Entrance Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
| Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-190 H-Transport Entrance Sensor]. Actuate the H-Transport Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8380 and P/J8390. **P/J8380 and P/J8390 are connected correctly.**

Y N
| Connect P/J8380 and P/J8390.

Check the wire between J8380 and J390 for an open circuit or a short circuit (BSD 12.2 Flag 5/Flag 6). **The wire between J8380 and J390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-12 (+) and GND (-) (BSD 12.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-13 (+) and GND (-) (BSD 12.2 Flag 5). Actuate the H-Transport Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Entrance Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Power OFF.

Open the H-Transport Top Cover.

Cheat the H-Transport Interlock Sensor.

Power ON. **The H-Transport Belt rotates.**

Y N
| Check the connections of P/J8379 and P/J8390. **P/J8379 and P/J8390 are connected correctly.**

Y N
| Connect P/J8379 and P/J8390.

Check the wire between J8379 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 7). **The wire between J8379 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the H-Transport Motor between J8379-2/5 (COM) and each point of J8379-1/3/4/6 (BSD 12.2 Flag 7). **The resistance is approx. 200hm.**

Y N
| Replace the H-Transport Motor (PL 17.3).

Measure the voltage between the Finisher PWB P8390-9 (+) and GND (-), and between P8390-10 (+) and GND (-) (BSD 12.2 Flag 7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the H-Transport Motor (PL 17.3). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-112 Finisher H-Transport Entrance Sensor On Jam RAP

BSD-ON:12.2

After the Engine Fuser Exit Sensor turned On, the H-Transport Entrance Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
| Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-190 H-Transport Entrance Sensor]. Actuate the H-Transport Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8380 and P/J8390. **P/J8380 and P/J8390 are connected correctly.**

Y N
| Connect P/J8380 and P/J8390.

Check the wire between J8380 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 5/Flag 6). **The wire between J8380 and J390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-12 (+) and GND (-) (BSD 12.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-13 (+) and GND (-) (BSD 12.2 Flag 5).

Actuate the H-Transport Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Entrance Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Power OFF.

Open the H-Transport Top Cover.

Cheat the H-Transport Interlock Sensor.

Power ON. **The H-Transport Belt rotates.**

Y N
| Check the connections of P/J8379 and P/J8390. **P/J8379 and P/J8390 are connected correctly.**

Y N
| Connect P/J8379 and P/J8390.

Check the wire between J8379 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 7). **The wire between J8379 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the H-Transport Motor between J8379-2/5 (COM) and each point of J8379-1/3/4/6 (BSD 12.2 Flag 7). **The resistance is approx. 200hm.**

Y N
| Replace the H-Transport Motor (PL 17.3).

Measure the voltage between the Finisher PWB P8390-9 (+) and GND (-), and between P8390-10 (+) and GND (-) (BSD 12.2 Flag 7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the H-Transport Motor (PL 17.3). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-121 H-Transport Exit Sensor Off Jam RAP

BSD-ON:12.2

After the H-Transport Exit Sensor turned On, the H-Transport Exit Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
|
Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
|
Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-191 H-Transport Exit Sensor]. Actuate the H-Transport Exit Sensor with paper. **The display changes.**

Y N
|
Check the connections of P/J8381 and P/J8390. **P/J8381 and P/J8390 are connected correctly.**

Y N
|
Connect P/J8381 and P/J8390.

Check the wire between J8381 and J390 for an open circuit or a short circuit (BSD 12.2 Flag 3/Flag 4). **The wire between J8381 and J390 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-6 (+) and GND (-) (BSD 12.2 Flag 4). **The voltage is approx. +5VDC.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-14 (+) and GND (-) (BSD 12.2 Flag 3).

Actuate the H-Transport Exit Sensor with paper. **The voltage changes.**

Y N
|
Replace the H-Transport Exit Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Power OFF.

Open the H-Transport Top Cover.

Cheat the H-Transport Interlock Sensor.

Power ON. **The H-Transport Belt rotates.**

Y N
|
Check the connections of P/J8379 and P/J8390. **P/J8379 and P/J8390 are connected correctly.**

Y N
|
Connect P/J8379 and P/J8390.

Check the wire between J8379 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 7). **The wire between J8379 and J8390 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the resistance of the H-Transport Motor between J8379-2/5 (COM) and each point of J8379-1/3/4/6 (BSD 12.2 Flag 7). **The resistance is approx. 200hm.**

Y N
|
Replace the H-Transport Motor (PL 17.3).

Measure the voltage between the Finisher PWB P8390-9 (+) and GND (-), and between P8390-10 (+) and GND (-) (BSD 12.2 Flag 7). **The voltage is approx. +24VDC.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Replace the H-Transport Motor (PL 17.3). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-126 H-Transport Entrance Sensor OFF Jam B RAP

BSD-ON:12.2

After the H-Transport Entrance Sensor turned On, the H-Transport Entrance Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
| Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No foreign substances, distortion or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-190 H-Transport Entrance Sensor]. Actuate the H-Transport Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8380 and P/J8390. **P/J8380 and P/J8390 are connected correctly.**

Y N
| Connect P/J8380 and P/J8390.

Check the wire between J8380 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 5/Flag 6). **The wire between J8380 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-12 (+) and GND (-) (BSD 12.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-13 (+) and GND (-) (BSD 12.2 Flag 5). Actuate the H-Transport Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Entrance Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Power OFF.

Open the H-Transport Top Cover.

Cheat the H-Transport Interlock Sensor.

Power ON. **The H-Transport Belt rotates.**

Y N
| Check the connections of P/J8379 and P/J8390. **P/J8379 and P/J8390 are connected correctly.**

Y N
| Connect P/J8379 and P/J8390.

Check the wire between J8379 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 7). **The wire between J8379 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the H-Transport Motor between J8379-2/5 (COM) and each point of J8379-1/3/4/6 (BSD 12.2 Flag 7). **The resistance is approx. 200hm.**

Y N
| Replace the H-Transport Motor (PL 17.3).

Measure the voltage between the Finisher PWB P8390-9 (+) and GND (-), and between P8390-10 (+) and GND (-) (BSD 12.2 Flag 7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the H-Transport Motor (PL 17.3). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-151 Compile Entrance Sensor Off Jam RAP

BSD-ON:12.3

After the Compile Entrance Sensor turned On, the Compile Entrance Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-150 Compile Entrance Sensor]. Actuate the Compile Entrance Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8814, P/J8825 and P/J8850. **P/J8814, P/J8825 and P/J8850 are connected correctly.**

Y N
Connect P/J8814, P/J8825 and P/J8850.

Check the wire between J8814 and J8850 for an open circuit or a short circuit (BSD 12.3 Flag 1/Flag 2). **The wire between J8814 and J8850 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-B9 (+) and GND (-) (BSD 12.3 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-B8 (+) and GND (-) (BSD 12.3 Flag 1). Actuate the Compile Entrance Sensor with paper. **The voltage changes.**

Y N
Replace the Compile Entrance Sensor (PL 17.11).

Replace the Finisher PWB (PL 17.12).

Execute Component Control [012-080 Finisher Drive Motor ON]. **The Finisher Drive Motor (PL 16.6) can be heard.**

Y N
Check the connections of P/J8846 and P/J8800. **P/J8846 and P/J8800 are connected correctly.**

A

Y N
Connect P/J8846 and P/J8800.

Check the wire between J8846 and J8800 for an open circuit or a short circuit (BSD 12.3 Flag 3). **The wire between J8846 and J8800 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Finisher Drive Motor between J8800-1/6 (COM) and each point of J8800-2/3/4/5 (BSD 12.3 Flag 3). **The resistance is approx. 200ohm.**

Y N
Replace the Finisher Drive Motor (PL 17.6).

Measure the voltage between each point of the Finisher PWB P8846-5/7/9/11 (+) and GND (-) (BSD 12.3 Flag 3). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Finisher Drive Motor (PL 17.6). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A

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012-152 Compile Entrance Sensor On Jam RAP

BSD-ON:12.3

After the H-Transport Exit Sensor turned On, the Compile Entrance Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
| Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-150 Compile Entrance Sensor]. Actuate the Compile Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8814, P/J8825 and P/J8850. **P/J8814, P/J8825 and P/J8850 are connected correctly.**

Y N
| Connect P/J8814, P/J8825 and P/J8850.

Check the wire between J8814 and J8850 for an open circuit or a short circuit (BSD 12.3 Flag 1/Flag 2). **The wire between J8814 and J8850 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-B9 (+) and GND (-) (BSD 12.3 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-B8 (+) and GND (-) (BSD 12.3 Flag 1).

Actuate the Compile Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the Compile Entrance Sensor (PL 17.11).

Replace the Finisher PWB (PL 17.12).

Execute Component Control [012-080 Finisher Drive Motor ON]. **The Finisher Drive Motor can be heard.**

Y N
| Check the connections of P/J8846 and P/J8800. **P/J8846 and P/J8800 are connected correctly.**

Y N
| Connect P/J8846 and P/J8800.

Check the wire between J8846 and J8800 for an open circuit or a short circuit (BSD 12.3 Flag 3). **The wire between J8846 and J8800 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Finisher Drive Motor between J8800-1/6 (COM) and each point of J8800-2/3/4/5 (BSD 12.3 Flag 3). **The resistance is approx. 200hm.**

Y N
| Replace the Finisher Drive Motor (PL 17.6).

Measure the voltage between each point of the Finisher PWB P8846-5/7/9/11 (+) and GND (-) (BSD 12.3 Flag 3). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Finisher Drive Motor (PL 17.6). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-161 Finisher Set Eject Jam RAP

BSD-ON:12.4/12.7

After the Eject Motor turned On, the Compile Paper Sensor (PL 16.9) did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Execute Component Control [012-151 Compile Paper Sensor]. Actuate the Compile Paper Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8806 and P/J8848. **P/J8806 and P/J8848 are connected correctly.**

Y N
Connect P/J8806 and P/J8848.

Check the wire between J8806 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 3/Flag 4). **The wire between J8806 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A6 (+) and GND (-) (BSD 12.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A5 (+) and GND (-) (BSD 12.4 Flag 3). Actuate the Compile Paper Sensor with paper. **The voltage changes.**

Y N
Replace the Compile Paper Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
Connect P/J8801 and P/J8846.

Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B
Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N
Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

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012-162 H-Tra EXIT Sensor On Jam RAP

BSD-ON:12.2

After the H-Transport Entrance Sensor turned On, the H-Transport Exit Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the Transport Roll for wear and paper powder. **The Transport Roll is ok.**

Y N
| Replace the Transport Roll.

Check for foreign substances, distortion and paper powder in the paper transport path. **No foreign substances, distortion or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Execute Component Control [012-191 H-Transport Exit Sensor]. Actuate the H-Transport Exit Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8381 and P/J8390. **P/J8381 and P/J8390 are connected correctly.**

Y N
| Connect P/J8381 and P/J8390.

Check the wire between J8381 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 3/Flag 4). **The wire between J8381 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-6 (+) and GND (-) (BSD 12.2 Flag 4). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-14 (+) and GND (-) (BSD 12.2 Flag 3). Actuate the H-Transport Exit Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Exit Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Power OFF.

Open the H-Transport Top Cover.

Cheat the H-Transport Interlock Sensor.

Power ON. **The H-Transport Belt rotates.**

Y N
| Check the connections of P/J8379 and P/J8390. **P/J8379 and P/J8390 are connected correctly.**

Y N
| Connect P/J8379 and P/J8390.

Check the wire between J8379 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 7). **The wire between J8379 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the H-Transport Motor between J8379-2/5 (COM) and each point of J8379-1/3/4/6 (BSD 12.2 Flag 7). **The resistance is approx. 20Ohm.**

Y N
| Replace the H-Transport Motor (PL 17.3).

Measure the voltage between the Finisher PWB P8390-9 (+) and GND (-), and between P8390-10 (+) and GND (-) (BSD 12.2 Flag 7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the H-Transport Motor (PL 17.3). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-211 Stacker Tray RAP

BSD-ON:12.8

After Stacker Tray started descending, the Stack Height Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove obstructions under the tray.
- Check the operation of the Stack Height Sensor actuator.

Procedure

Execute Component Control [012-267 Stack Height Sensor]. Actuate Stack Height Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8850, P/J8825 and P/J8815. **P/J8850, P/J8825 and P/J8815 are connected correctly.**

Y N
Connect P/J8850, P/J8825 and P/J8815.

Check the wire between J8850 and J8815 for an open circuit or a short circuit (BSD 12.8 Flag 1/Flag 2). **The wire between J8850 and J8815 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-B6 (+) and GND (-) (BSD 12.8 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-B5 (+) and GND (-) (BSD 12.8 Flag 1).

Actuate the Stack Height Sensor with paper. **The voltage changes.**

Y N
Replace the Stack Height Sensor (PL 17.5).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor starts up.**

Y N
Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N
Connect P/J8847 and P/J8827.

Check the wire between J8847 and P8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and P8827 is conducting without an open circuit or a short circuit.**

A

Y N
Repair the open circuit or short circuit.

Replace the Stacker Motor (PL 17.10). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12). If the problem persists, replace the MCU PWB (PL 11.1).

A

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012-212 Stacker Tray Upper Limit RAP

BSD-ON:12.8/12.9

After the Stacker Tray started descending, the Stacker Upper Limit Sensor remained ON.

Initial Actions

- Power Off/On
- Remove obstructions under the tray.

Procedure

Execute Component Control [012-260 Stacker Upper Limit Sensor]. Actuate the Stacker Upper Limit Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8850 and P/J8810. **P/J8850 and P/J8810 are connected correctly.**

Y N
Connect P/J8850 and P/J8810.

Check the wire between J8850 and J8810 for an open circuit or a short circuit (BSD 12.9 Flag 2/Flag 2). **The wire between J8850 and J8810 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-A12 (+) and GND (-) (BSD 12.9 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-A11 (+) and GND (-) (BSD 12.9 Flag 2).

Actuate the Stacker Upper Limit Sensor with paper. **The voltage changes.**

Y N
Replace the Stacker Upper Limit Sensor (PL 17.10).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor starts up.**

Y N
Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N
Connect P/J8847 and P/J8827.

Check the wire between J8847 and J8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and J8827 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B
Replace the Stacker Motor (PL 17.10). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12). If the problem persists, replace the MCU PWB (PL 11.1).

012-221 Front Tamper Home Sensor On RAP

BSD-ON:12.4

After the Front Tamper started moving to the home position, the Front Tamper Home Sensor did not turn On within 800ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-220 Front Tamper Home Sensor]. Actuate the Front Tamper Home Sensor with paper. The display changes. **The display changes.**

Y N
Check the connections of P/J8807 and P/J8848. **P/J8807 and P/J8848 are connected correctly.**

Y N
Connect P/J8807 and P/J8848.

Check the wire between J8807 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 5/Flag 6). **The wire between J8807 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A3 (+) and GND (-) (BSD 12.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A2 (+) and GND (-) (BSD 12.4 Flag 5).

Actuate the Front Tamper Home Sensor with paper. **The voltage changes.**

Y N
Replace the Front Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-020 Front Tamper Motor FRONT ON] and Component Control [012-023 Front Tamper Motor REAR ON]. **The Front Tamper Motor starts up.**

Y N
Check the connections of P/J8823 and P/J8848. **P/J8823 and P/J8848 are connected correctly.**

Y N
Connect P/J8823 and P/J8848.

A B
Check the wire between J8823 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 7). **The wire between J8823 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Front Tamper Motor between J8823-2/5 (COM) and each point of J8823-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
Replace the Front Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B8 (+) and GND (-), and between P8848-B11 (+) and GND (-) (BSD 12.4 Flag 7). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Front Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-223 Front Tamper Home Sensor Off RAP

BSD-ON:12.4

After the Front Tamper started moving away from the home position, the Front Tamper Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-220 Front Tamper Home Sensor]. Actuate the Front Tamper Home Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8807 and P/J8848. **P/J8807 and P/J8848 are connected correctly.**

Y N
| Connect P/J8807 and P/J8848.

Check the wire between J8807 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 5/Flag 6). **The wire between J8807 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A3 (+) and GND (-) (BSD 12.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A2 (+) and GND (-) (BSD 12.4 Flag 5).

Actuate the Front Tamper Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Front Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-020 Front Tamper Motor FRONT ON] and Component Control [012-023 Front Tamper Motor REAR ON]. **The Front Tamper Motor starts up.**

Y N
| Check the connections of P/J8823 and P/J8848. **P/J8823 and P/J8848 are connected correctly.**

Y N
| Connect P/J8823 and P/J8848.

A B
| Check the wire between J8823 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 7). **The wire between J8823 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Front Tamper Motor between J8823-2/5 (COM) and each point of J8823-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
| Replace the Front Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B8 (+) and GND (-), and between P8848-B11 (+) and GND (-) (BSD 12.4 Flag 7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Front Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-224 Rear Tamper Home Sensor Off RAP

BSD-ON:12.4

After the Rear Tamper started moving away from the home position, the Rear Tamper Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-221 Rear Tamper Home Sensor]. Actuate the Rear Tamper Home Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8805 and P/J8848. **P/J8805 and P/J8848 are connected correctly.**

Y N
Connect P/J8805 and P/J8848.

Check the wire between J8805 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 1/Flag 2). **The wire between J8805 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A9 (+) and GND (-) (BSD 12.4 Flag 1). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A8 (+) and GND (-) (BSD 12.4 Flag 1).

Actuate the Rear Tamper Home Sensor with paper. **The voltage changes.**

Y N
Replace the Rear Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-026 Rear Tamper Motor FRONT ON] and Component Control [012-029 Rear Tamper Motor REAR ON]. **The Rear Tamper Motor starts up.**

Y N
Check the connections of P/J8824 and P/J8848. **P/J8824 and P/J8848 are connected correctly.**

Y N
Connect P/J8824 and P/J8848.

A

B

Check the wire between J8824 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 8). **The wire between J8824 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Rear Tamper Motor between J8824-2/5 (COM) and each point of J8824-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
Replace the Rear Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B2 (+) and GND (-), and between P8848-B5 (+) and GND (-) (BSD 12.4 Flag 8). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Rear Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-260 Eject Clamp Home Sensor ON RAP

BSD-ON:12.7

After the Eject Clamp started ascending, the Eject Clamp Home Sensor did not turn On within 500ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-250 Eject Clamp Home Sensor]. **Actuate the Eject Clamp Home Sensor with paper. The display changes.**

Y N
| Check the connections of P/J8803 and P/J8849. **P/J8803 and P/J8849 are connected correctly.**

Y N
| Connect P/J8803 and P/J8849.

Check the wire between J8803 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 3/Flag 4). **The wire between J8803 and J8849 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-6 (+) and GND (-) (BSD 12.7 Flag 4). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-5 (+) and GND (-) (BSD 12.7 Flag 3). Actuate the Eject Clamp Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Eject Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
| Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
| Connect P/J8801 and P/J8846.

A

B

Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N
| Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8848-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-263 Rear Tamper Home Sensor ON RAP

BSD-ON:12.4

After the Rear Tamper started moving to the home position, the Rear Tamper Home Sensor did not turn On within 800ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-221 Rear Tamper Home Sensor]. Actuate the Rear Tamper Home Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8805 and P/J8848. **P/J8805 and P/J8848 are connected correctly.**

Y N
| Connect P/J8805 and P/J8848.

Check the wire between J8805 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 1/Flag 2). **The wire between J8805 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A9 (+) and GND (-) (BSD 12.4 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A8 (+) and GND (-) (BSD 12.4 Flag 1). Actuate the Rear Tamper Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Rear Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-026 Rear Tamper Motor FRONT ON] and Component Control [012-029 Rear Tamper Motor REAR ON]. **The Rear Tamper Motor starts up.**

Y N
| Check the connections of P/J8824 and P/J8848. **P/J8824 and P/J8848 are connected correctly.**

Y N
| Connect P/J8824 and P/J8848.

A B
| Check the wire between J8824 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 8). **The wire between J8824 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Rear Tamper Motor between J8824-2/5 (COM) and each point of J8824-1/3/4/6 (BSD 12.4). **The resistance is approx. 750Ohm.**

Y N
| Replace the Rear Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-2 (+) and GND (-), and between P8848-5 (+) and GND (-) (BSD 12.4). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Rear Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B
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012-282 Eject Clamp Home Sensor Off RAP

BSD-ON:12.7

After the Eject Clamp started descending, the Eject Clamp Home Sensor did not turn Off within 200ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-250 Eject Clamp Home Sensor]. Actuate the Eject Clamp Home Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8803 and P/J8849. **P/J8803 and P/J8849 are connected correctly.**

Y N
| Connect P/J8803 and P/J8849.

Check the wire between J8803 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 3/Flag 4). **The wire between J8803 and J8849 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-6 (+) and GND (-) (BSD 12.7 Flag 4). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-5 (+) and GND (-) (BSD 12.7 Flag 3).

Actuate the Eject Clamp Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Eject Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
| Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
| Connect P/J8801 and P/J8846.

A B
| Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7). **The resistance is approx. 20Ohm.**

Y N
| Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-283 Set Clamp Home Sensor On RAP

BSD-ON:12.7

After the Set Clamp started operation, the Set Clamp Home Sensor did not turn On within 200ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-251 Set Clamp Home Sensor]. **Actuate the Set Clamp Home Sensor with paper. The display changes.**

Y N
| Check the connections of P/J8802 and P/J8849. **P/J8802 and P/J8849 are connected correctly.**

Y N
| Connect P/J8802 and P/J8849.

Check the wire between J8802 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 1/Flag 2). **The wire between J8802 and J8849 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-9 (+) and GND (-) (BSD 12.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-8 (+) and GND (-) (BSD 12.7 Flag 1).

Actuate the Set Clamp Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Set Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
| Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
| Connect P/J8801 and P/J8846.

A

B

Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20Ohm.**

Y N
| Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y N
| Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N
| Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
| Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-284 Set Clamp Home Sensor Off RAP

BSD-ON:12.7

After the Set Clamp completed operation, the Set Clamp Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
| Replace the parts that are interfering with operation.

Execute Component Control [012-251 Set Clamp Home Sensor]. **Actuate the Set Clamp Home Sensor with paper. The display changes.**

Y N
| Check the connections of P/J8802 and P/J8849. **P/J8802 and P/J8849 are connected correctly.**

Y N
| Connect P/J8802 and P/J8849.

Check the wire between J8802 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 1/Flag 2). **The wire between J8802 and J8849 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-9 (+) and GND (-) (BSD 12.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-8 (+) and GND (-) (BSD 12.7 Flag 1).

Actuate the Set Clamp Home Sensor with paper. **The voltage changes.**

Y N
| Replace the Set Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
| Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
| Connect P/J8801 and P/J8846.

A B
| Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20Ohm.**

Y N
| Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y N
| Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N
| Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
| Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-285 Finisher Error

There is a processing error in the Finisher PWB.

Procedure

Switch off the power. Disconnect and reconnect the P/J's on the Finisher PWB. Switch on the power.

If the problem persists, replace the Finisher PWB (PL 17.12).

012-291 Stapler RAP

BSD-ON:12.6

- After the Stapler Motor turned On (Forward rotation), the system did not detect that the Staple Head Home Sensor switched from Off to On within the specified time.
- After the Stapler Motor turned On (Reverse rotation), the Staple Head Home Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The Stapler Motor can be heard.**

Y N

Check the connections of P/J8819 and P/J8847. **P/J8819 and P/J8847 are connected correctly.**

Y N

Connect P/J8819 and P/J8847.

Check the wire between J8819 and J8847 for an open circuit or a short circuit (BSD 12.6 Flag 1). **The wire between J8819 and J8847 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-244 Staple Head Home Sensor].

Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The display changes.**

Y N

Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**

Y N

Connect P/J8818 and P/J8852.

Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 2/Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-1 (+) and P8852-5 (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

A

A

Replace the Finisher PWB (PL 17.12).

012-293 Staple Front Corner Sensor On RAP

BSD-ON:12.5

- After the Stapler started moving to the front corner, the Staple Front Corner Sensor did not turn On within 2sec.
- After the Stapler started moving away from the front corner, the Staple Front Corner Sensor remained On.

Initial Actions

- Power Off/On
- Check the Stapler movement mechanism.

Procedure

Execute Component Control [012-240 Staple Front Corner Sensor]. Actuate the Staple Front Corner Sensor with paper. **The display changes.**

Y N
 Check the connections of P/J8813 and P/J8850. **P/J8813 and P/J8850 are connected correctly.**

Y N
 Connect P/J8813 and P/J8850.

Check the wire between J8813 and J8850 for an open circuit or a short circuit (BSD 12.5 Flag 3/Flag 4). **The wire between J8813 and J8850 is conducting without an open circuit or a short circuit.**

Y N
 Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-A3 (+) and GND (-) (BSD 12.5 Flag 4). **The voltage is approx. +5VDC.**

Y N
 Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-A2 (+) and GND (-) (BSD 12.5 Flag 3).

Actuate the Staple Front Corner Sensor with paper. **The voltage changes.**

Y N
 Replace the Staple Front Corner Sensor (PL 17.8).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-040 Staple Move Motor FRONT ON] and Component Control [012-043 Staple Move Motor REAR ON]. **The Stapler Move Motor starts up.**

Y N
 Check the connections of P/J8820 and P/J8847. **P/J8820 and P/J8847 are connected correctly.**

Y N
 Connect P/J8820 and P/J8847.

A B

A

B

Check the wire between J8820 and J8847 for an open circuit or a short circuit (BSD 12.5 Flag 5). **The wire between J8820 and J8847 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Staple Move Motor between J8820-2 (COM) and each point of J8820-1/3, and between J8820-5 (COM) and J8820-4/6 (BSD 12.5 Flag 5). **The resistance is approx. 10Ohm.**

Y N

Replace the Staple Move Motor (PL 17.8).

Measure the voltage between the Finisher PWB P8847-3 (+) and GND (-), and between P8847-4 (+) and GND (-) (BSD 12.5 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Staple Move Motor (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-294 Staple Front Corner Sensor Off RAP

BSD-ON:12.5

- After the Stapler completed moving away from the front corner, the Staple Front Corner Sensor did not turn Off.
- After the Stapler started moving away from the front corner, the Staple Front Corner Sensor did not turn Off within 200ms.

Initial Actions

- Power Off/On
- Check the Stapler movement mechanism.

Procedure

Execute Component Control [012-240 Staple Front Corner Sensor]. Actuate the Staple Front Corner Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8813 and P/J8850. **P/J8813 and P/J8850 are connected correctly.**

Y N

Connect P/J8813 and P/J8850.

Check the wire between J8813 and J8850 for an open circuit or a short circuit (BSD 12.5 Flag 3/Flag 4). **The wire between J8813 and J8850 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-A3 (+) and GND (-) (BSD 12.5 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-A2 (+) and GND (-) (BSD 12.5 Flag 3).

Actuate the Staple Front Corner Sensor with paper. **The voltage changes.**

Y N

Replace the Staple Front Corner Sensor (PL 17.8).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-040 Staple Move Motor FRONT ON] and Component Control [012-043 Staple Move Motor REAR ON]. **The Stapler Move Motor starts up.**

Y N

Check the connections of P/J8820 and P/J8847. **P/J8820 and P/J8847 are connected correctly.**

Y N

Connect P/J8820 and P/J8847.

A B

A

B

Check the wire between J8820 and J8847 for an open circuit or a short circuit (BSD 12.5 Flag 5). **The wire between J8820 and J8847 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Staple Move Motor between J8820-2 (COM) and each point of J8820-1/3, and between J8820-5 (COM) and J8820-4/6 (BSD 12.5 Flag 5). **The resistance is approx. 10Ohm.**

Y N

Replace the Staple Move Motor (PL 17.8).

Measure the voltage between the Finisher PWB P8847-3 (+) and GND (-), and between P8847-4 (+) and GND (-) (BSD 12.5 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Staple Move Motor (PL 17.8).

Replace the Staple Move Motor (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-295 Staple Move Sensor On RAP

BSD-ON:12.5

- After the Stapler started moving to the Staple Position and the Staple Move Sensor turned Off, the Staple Move Sensor did not turn On within 2sec.
- After the Stapler completed moving to the Staple Position, the Staple Move Sensor did not turn On.

Initial Actions

- Power Off/On
- Check the Stapler movement mechanism.

Procedure

Execute Component Control [012-241 Staple Move Sensor]. Actuate the Staple Move Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8817 and P/J8852. **P/J8817 and P/J8852 are connected correctly.**

Y N

Connect P/J8817 and P/J8852.

Check the wire between J8817 and J8852 for an open circuit or a short circuit (BSD 12.5 Flag 1/Flag 2). **The wire between J8817 and J8852 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-8 (+) and GND (-) (BSD 12.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8852-7 (+) and GND (-) (BSD 12.5 Flag 1).

Actuate the Staple Move Sensor with paper. **The voltage changes.**

Y N

Replace the Staple Move Sensor (PL 17.8).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-040 Staple Move Motor FRONT ON] and Component Control [012-043 Staple Move Motor REAR ON]. **The Stapler Move Motor starts up.**

Y N

Check the connections of P/J8820 and P/J8847. **P/J8820 and P/J8847 are connected correctly.**

Y N

Connect P/J8820 and P/J8847.

A B

A

B

Check the wire between J8820 and J8847 for an open circuit or a short circuit (BSD 12.5 Flag 5). **The wire between J8820 and J8847 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Staple Move Motor between J8820-2 (COM) and each point of J8820-1/3, and between J8820-5 (COM) and J8820-4/6 (BSD 12.5 Flag 5). **The resistance is approx. 10Ohm.**

Y N

Replace the Staple Move Motor (PL 17.8).

Measure the voltage between the Finisher PWB P8847-3 (+) and GND (-), and between P8847-4 (+) and GND (-) (BSD 12.5 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Staple Move Motor (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-296 Staple Move Sensor Off RAP

BSD-ON:12.5

- After the Stapler started moving to the Staple Position and the Staple Move Sensor turned Off, the Staple Move Sensor did not turn Off within 500ms.
- After the Staple Position had been fixed, the Staple Move Sensor turned Off.
- After the Staple Move Sensor turned On when paper passed through the Dual Staple 1 Position while moving to the Rear Staple Position, the Staple Move Sensor did not turn Off within 500ms.

Initial Actions

- Power Off/On
- Check the Stapler movement mechanism.

Procedure

Execute Component Control [012-240 Staple Move Sensor]. Actuate the Staple Move Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8817 and P/J8852. **P/J8817 and P/J8852 are connected correctly.**

Y N

Connect P/J8817 and P/J8852.

Check the wire between J8817 and J8852 for an open circuit or a short circuit (BSD 12.5 Flag 1/Flag 2). **The wire between J8817 and J8852 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-8 (+) and GND (-) (BSD 12.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8852-7 (+) and GND (-) (BSD 12.5 Flag 1). Actuate the Staple Move Sensor with paper. **The voltage changes.**

Y N

Replace the Staple Move Sensor (PL 17.8).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-040 Staple Move Motor FRONT ON] and Component Control [012-043 Staple Move Motor REAR ON]. **The Stapler Move Motor (PL 16.8) starts up.**

Y N

Check the connections of P/J8820 and P/J8847. **P/J8820 and P/J8847 are connected correctly.**

Y N

Connect P/J8820 and P/J8847.

A B

A

B

Check the wire between J8820 and J8847 for an open circuit or a short circuit (BSD 12.5 Flag 5). **The wire between J8820 and J8847 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Staple Move Motor between J8820-2 (COM) and each point of J8820-1/3, and between J8820-5 (COM) and J8820-4/6 (BSD 12.5 Flag 5). **The resistance is approx. 10Ohm.**

Y N

Replace the Staple Move Motor (PL 17.8).

Measure the voltage between the Finisher PWB P8847-3 (+) and GND (-), and between P8847-4 (+) and GND (-) (BSD 12.5Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Staple Move Motor (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-301 Finisher Top Cover Open RAP

BSD-ON:12.1

The Finisher Top Cover is open.

Initial Actions

- Power Off/On
- Opening/closing of the Finisher Top Cover.

Procedure

Check opening/closing of the Finisher Top Cover. **The Finisher Top Cover can be opened/closed.**

Y N

Reinstall the Finisher Top Cover correctly.

Check the installation of the Top Cover Interlock Switch. **The Top Cover Interlock Switch is installed correctly.**

Y N

Install the Top Cover Interlock Switch correctly.

Execute Component Control [012-301 Top Cover Interlock Switch]. **Open/close the Finisher Top Cover. The display changes.**

Y N

Check the connections of P/J8808 and P/J8851. **P/J8808 and P/J8851 are connected correctly.**

Y N

Connect P/J8808 and P/J8851.

Check the wire between J8808 and J8851 for an open circuit or a short circuit (BSD 12.1 Flag 3/Flag 4). **The wire between J8808 and J8851 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Top Cover Interlock Switch between J8808-3 and J8808-4 (BSD 12.1 Flag 3/Flag 4). **The wire between J8808-3 and J8808-4 is connecting successfully when the Top Cover Interlock Switch contact is closed, and is insulated when the contact is opened.**

Y N

Replace the Top Cover Interlock Switch (PL 17.12).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12). If the problem persists, replace the MCU PWB (PL 11.1).

012-302 Finisher Front Cover Open RAP

BSD-ON:12.1

The Finisher Front Cover is open.

Initial Actions

- Power Off/On
- Opening/closing of the Finisher Front Cover.

Procedure

Check opening/closing of the Finisher Front Cover. **The Finisher Front Cover can be opened/closed.**

Y N
| Reinstall the Finisher Front Cover correctly.

Check the installation of the Front Door Interlock Switch. **The Front Door Interlock Switch is installed correctly.**

Y N
| Install the Front Door Interlock Switch correctly.

Execute Component Control [012-302 Front Door Interlock Switch]. **Open/close the Finisher Front Cover. The display changes.**

Y N
| Check the connections of P/J8809 and P/J8851. **P/J8809 and P/J8851 are connected correctly.**

Y N
| Connect P/J8809 and P/J8851.

Check the wire between J8809 and J8851 for an open circuit or a short circuit (BSD 12.1 Flag 1/Flag 2). **The wire between J8809 and J8851 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the Front Door Interlock Switch between J8809-3 and J8809-4 (BSD 12.1 Flag 1/Flag 2). **The wire between J8809-3 and J8809-4 is connecting successfully when the Front Door Interlock Switch contact is closed, and is insulated when the contact is opened.**

Y N
| Replace the Front Door Interlock Switch (PL 17.12).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12). If the problem persists, replace the MCU PWB (PL 11.1).

012-303 Finisher H-Transport Cover Open RAP

BSD-ON:12.2

The Finisher H-Transport Cover is open.

Initial Actions

- Power Off/On
- Opening/closing of the Finisher H-Transport Cover.

Procedure

Check opening/closing of the Finisher H-Transport Cover. **The Finisher H-Transport Cover can be opened/closed.**

Y N
| Reinstall the Finisher H-Transport Cover correctly.

Check the installation of the H-Transport Interlock Sensor. **The H-Transport Interlock Sensor is installed correctly.**

Y N
| Install the H-Transport Interlock Sensor correctly.

Execute Component Control [012-303 H-Transport Interlock Sensor]. Open and close the Finisher H-Transport Cover. **The display changes.**

Y N
| Check the connections of P/J8382 and P/J8390. **P/J8382 and P/J8390 are connected correctly.**

Y N
| Connect P/J8382 and P/J8390.

Check the wire between J8382 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 1/Flag 2). **The wire between J8382 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-7 (+) and GND (-) (BSD 12.2 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the H-Transport Interlock Sensor (PL 17.12).

Measure the voltage between the Finisher PWB P8390-8 (+) and GND (-) (BSD 12.2 Flag 1). Open and close the Finisher H-Transport Cover. **The voltage changes.**

Y N
| Replace the H-Transport Interlock Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12). If the problem persists, replace the MCU PWB (PL 11.1).

012-310 Front Tamper Home Sensor On Fail RAP

BSD-ON:12.4

After the Front Tamper started moving to the home position, the Front Tamper Home Sensor did not turn On within 800ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
|
Replace the parts that are interfering with operation.

Execute Component Control [012-220 Front Tamper Home Sensor]. Actuate the Front Tamper Home Sensor with paper. The display changes. **The display changes.**

Y N
|
Check the connections of P/J8807 and P/J8848. **P/J8807 and P/J8848 are connected correctly.**

Y N
|
Connect P/J8807 and P/J8848.

Check the wire between J8807 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 5/Flag 6). **The wire between J8807 and J8848 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A3 (+) and GND (-) (BSD 12.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A2 (+) and GND (-) (BSD 12.4 Flag 5).

Actuate the Front Tamper Home Sensor with paper. **The voltage changes.**

Y N
|
Replace the Front Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-020 Front Tamper Motor FRONT ON] and Component Control [012-023 Front Tamper Motor REAR ON]. **The Front Tamper Motor starts up.**

Y N
|
Check the connections of P/J8823 and P/J8848. **P/J8823 and P/J8848 are connected correctly.**

Y N
|
Connect P/J8823 and P/J8848.

A B
|
Check the wire between J8823 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 7). **The wire between J8823 and J8848 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the resistance of the Front Tamper Motor between J8823-2/5 (COM) and each point of J8823-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
|
Replace the Front Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B8 (+) and GND (-), and between P8848-B11 (+) and GND (-) (BSD 12.4 Flag 7). **The voltage is approx. +24VDC.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Replace the Front Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-311 Front Tamper Home Sensor Off Fail RAP

BSD-ON:12.4

After the Front Tamper started moving away from the home position, the Front Tamper Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-220 Front Tamper Home Sensor]. Actuate the Front Tamper Home Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8807 and P/J8848. **P/J8807 and P/J8848 are connected correctly.**

Y N
Connect P/J8807 and P/J8848.

Check the wire between J8807 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 5/Flag 6). **The wire between J8807 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A3 (+) and GND (-) (BSD 12.4 Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A2 (+) and GND (-) (BSD 12.4 Flag 5).

Actuate the Front Tamper Home Sensor with paper. **The voltage changes.**

Y N
Replace the Front Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-020 Front Tamper Motor FRONT ON] and Component Control [012-023 Front Tamper Motor REAR ON]. **The Front Tamper Motor starts up.**

Y N
Check the connections of P/J8823 and P/J8848. **P/J8823 and P/J8848 are connected correctly.**

Y N
Connect P/J8823 and P/J8848.

A B
Check the wire between J8823 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 7). **The wire between J8823 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Front Tamper Motor between J8823-2/5 (COM) and each point of J8823-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
Replace the Front Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B8 (+) and GND (-), and between P8848-B11 (+) and GND (-) (BSD 12.4 Flag 7). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Front Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-312 Rear Tamper Home Sensor ON Fail RAP

BSD-ON:12.4

After the Rear Tamper started moving away from the home position, the Rear Tamper Home Sensor did not turn ON within 800ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-221 Rear Tamper Home Sensor]. Actuate the Rear Tamper Home Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8805 and P/J8848. **P/J8805 and P/J8848 are connected correctly.**

Y N
Connect P/J8805 and P/J8848.

Check the wire between J8805 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 1/Flag 2). **The wire between J8805 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A9 (+) and GND (-) (BSD 12.4 Flag 1). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A8 (+) and GND (-) (BSD 12.4 Flag 1).

Actuate the Rear Tamper Home Sensor with paper. **The voltage changes.**

Y N
Replace the Rear Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-026 Rear Tamper Motor FRONT ON] and Component Control [012-029 Rear Tamper Motor REAR ON]. **The Rear Tamper Motor starts up.**

Y N
Check the connections of P/J8824 and P/J8848. **P/J8824 and P/J8848 are connected correctly.**

Y N
Connect P/J8824 and P/J8848.

A B
Check the wire between J8824 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 8). **The wire between J8824 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Rear Tamper Motor between J8824-2/5 (COM) and each point of J8824-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
Replace the Rear Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B2 (+) and GND (-), and between P8848-B5 (+) and GND (-) (BSD 12.4 Flag 8). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Rear Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-313 Rear Tamper Home Sensor Off Fail RAP

BSD-ON:12.4

After the Rear Tamper started moving away from the home position, the Rear Tamper Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Compiler Tray.

Procedure

Manually operate the Tamper mechanism. **The Tamper mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-221 Rear Tamper Home Sensor]. Actuate the Rear Tamper Home Sensor with paper. **The display changes.**

Y N
Check the connections of P/J8805 and P/J8848. **P/J8805 and P/J8848 are connected correctly.**

Y N
Connect P/J8805 and P/J8848.

Check the wire between J8805 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 1/Flag 2). **The wire between J8805 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A9 (+) and GND (-) (BSD 12.4 Flag 1). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A8 (+) and GND (-) (BSD 12.4 Flag 1).

Actuate the Rear Tamper Home Sensor with paper. **The voltage changes.**

Y N
Replace the Rear Tamper Home Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-026 Rear Tamper Motor FRONT ON] and Component Control [012-029 Rear Tamper Motor REAR ON]. **The Rear Tamper Motor starts up.**

Y N
Check the connections of P/J8824 and P/J8848. **P/J8824 and P/J8848 are connected correctly.**

Y N
Connect P/J8824 and P/J8848.

A B
Check the wire between J8824 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 8). **The wire between J8824 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Rear Tamper Motor between J8824-2/5 (COM) and each point of J8824-1/3/4/6 (BSD 12.4 Flag 7). **The resistance is approx. 750Ohm.**

Y N
Replace the Rear Tamper Motor (PL 17.9).

Measure the voltage between the Finisher PWB P8848-B2 (+) and GND (-), and between P8848-B5 (+) and GND (-) (BSD 12.4 Flag 8). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Rear Tamper Motor (PL 17.9). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

A B

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012-314 Eject Clamp Home Sensor On Failure RAP

BSD-ON:12.7

The Eject Clamp Home Sensor did not turn On within a specific time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-250 Eject Clamp Home Sensor]. **Actuate the Eject Clamp Home Sensor. The display changes.**

Y N
Check the connections of J8803 and P/J8849. **J8803 and P/J8849 are connected correctly.**

Y N
Connect P/J8802 and P/J8849.

Check the wire between J8803 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 3/Flag 4). **The wire between J8803 and J8849 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-6 (+) and GND (-) (BSD 12.7 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-5 (+) and GND (-) (BSD 12.7 Flag 3).

Actuate the Eject Clamp Home Sensor with paper. **The voltage changes.**

Y N
Replace the Eject Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
Connect P/J8801 and P/J8846.

A

B

Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N
Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y N
Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N
Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

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012-314

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012-315 Eject Clamp Home Sensor Off Failure RAP

BSD-ON:12.7

The Eject Clamp Home Sensor did not turn Off within a specific time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-250 Eject Clamp Home Sensor]. **Actuate the Eject Clamp Home Sensor. The display changes.**

Y N
Check the connections of J8803 and P/J8849. **J8803 and P/J8849 are connected correctly.**

Y N
Connect P/J8802 and P/J8849.

Check the wire between J8803 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 3/Flag 4). **The wire between J8803 and J8849 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-6 (+) and GND (-) (BSD 12.7 Flag 4). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-5 (+) and GND (-) (BSD 12.7 Flag 3).

Actuate the Eject Clamp Home Sensor with paper. **The voltage changes.**

Y N
Replace the Eject Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
Connect P/J8801 and P/J8846.

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Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N
Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y N
Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N
Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-316 Stapler Failure RAP

BSD-ON:12.6

- After the Stapler Motor turned On (Forward rotation), the system did not detect that the Staple Head Home Sensor switched from Off to On within the specified time.
- After the Stapler Motor turned On (Reverse rotation), the Staple Head Home Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The Stapler Motor can be heard.**

Y N
Check the connections of P/J8819 and P/J8847. **P/J8819 and P/J8847 are connected correctly.**
Y N
Connect P/J8819 and P/J8847.
Check the wire between J8819 and J8847 for an open circuit or a short circuit (BSD 12.6 Flag 1). **The wire between J8819 and J8847 is conducting without an open circuit or a short circuit.**
Y N
Repair the open circuit or short circuit.
Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-244 Staple Head Home Sensor].
Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The display changes.**

Y N
Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**
Y N
Connect P/J8818 and P/J8852.
Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 2/Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**
Y N
Repair the open circuit or short circuit.
Measure the voltage between the Finisher PWB P8852-1 (+) and P8852-5 (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**
Y N
Replace the Finisher PWB (PL 17.12).
Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

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Replace the Finisher PWB (PL 17.12).

012-317 Stapler Feed Ready Failure RAP

BSD-ON:12.6

The Staple Head did not feed the staple wire to the Staple Ready Sensor in a specific time.

Initial Actions

- Power Off/On

Procedure

Execute Component Control [012-043 Staple Ready Sensor]. Select [012-046 Staple Motor].

The Stapler Motor can be heard.

Y N
Check the connections of P/J8819 and P/J8847. **P/J8819 and P/J8847 are connected correctly.**

Y N
Connect P/J8819 and P/J8847.

Check the wire between J8819 and J8847 for an open circuit or a short circuit (BSD 12.6 Flag 1). **The wire between J8819 and J8847 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-243 Staple Ready Sensor].

Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The display changes.**

Y N
Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**

Y N
Connect P/J8818 and P/J8852.

Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 2/Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-1 (+) and P8852-5 (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Staple Assembly (PL 17.8). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-318 Set Clamp Home Sensor On Failure RAP

BSD-ON:12.7

After the Set Clamp started operation, the Set Clamp Home Sensor did not turn On within 200ms.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N
Replace the parts that are interfering with operation.

Execute Component Control [012-251 Set Clamp Home Sensor]. **Actuate the Set Clamp Home Sensor with paper. The display changes.**

Y N
Check the connections of P/J8802 and P/J8849. **P/J8802 and P/J8849 are connected correctly.**

Y N
Connect P/J8802 and P/J8849.

Check the wire between J8802 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 1/Flag 2). **The wire between J8802 and J8849 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-9 (+) and GND (-) (BSD 12.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-8 (+) and GND (-) (BSD 12.7 Flag 1).

Actuate the Set Clamp Home Sensor with paper. **The voltage changes.**

Y N
Replace the Set Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N
Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N
Connect P/J8801 and P/J8846.

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Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N

Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control[012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y N

Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N

Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N

Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-319 Set Clamp Home Sensor Off Failure RAP

BSD-ON:12.7

After the Set Clamp completed operation, the Set Clamp Home Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On
- Remove foreign substances in the Eject Clamp mechanism.

Procedure

Manually operate the Eject Clamp mechanism. **The Eject Clamp mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation.

Execute Component Control [012-251 Set Clamp Home Sensor]. **Actuate the Set Clamp Home Sensor with paper. The display changes.**

Y N

Check the connections of P/J8802 and P/J8849. **P/J8802 and P/J8849 are connected correctly.**

Y N

Connect P/J8802 and P/J8849.

Check the wire between J8802 and J8849 for an open circuit or a short circuit (BSD 12.7 Flag 1/Flag 2). **The wire between J8802 and J8849 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8849-9 (+) and GND (-) (BSD 12.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8849-8 (+) and GND (-) (BSD 12.7 Flag 1).

Actuate the Set Clamp Home Sensor with paper. **The voltage changes.**

Y N

Replace the Set Clamp Home Sensor (PL 17.7).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-081 Eject Motor FORWARD ON] and Component Control [012-082 Eject Motor REVERSE ON]. **The Eject Motor starts up.**

Y N

Check the connections of P/J8801 and P/J8846. **P/J8801 and P/J8846 are connected correctly.**

Y N

Connect P/J8801 and P/J8846.

A B

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Check the wire between J8801 and J8846 for an open circuit or a short circuit (BSD 12.7 Flag 5). **The wire between J8801 and J8846 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Eject Motor between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 20hm.**

Y N

Replace the Eject Motor (PL 17.7).

Measure the voltage between the Finisher PWB P8846-6 (+) and GND (-), and between P8846-12 (+) and GND (-) (BSD 12.7 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch starts operating.**

Y

N

Check the connections of P/J8822 and P/J8848. **P/J8822 and P/J8848 are connected correctly.**

Y N

Connect P/J8822 and P/J8848.

Check the wire between J8822 and J8848 for an open circuit or a short circuit (BSD 12.7 Flag 6). **The wire between J8822 and J8848 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N

Replace the Set Clamp Clutch (PL 17.5). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Eject Motor (PL 17.7). If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-350 Finisher Communications Failure RAP

There is a communications error in the Finisher PWB.

Procedure

Switch off the power. Disconnect and reconnect the P/Js on the Finisher PWB. Switch on the power.

If the problem persists, replace the Finisher PWB (PL 17.12).

012-500

BSD-ON:

A description is not available at time of publication.

Procedure

A procedure is not available at time of publication.

012-600 Staple Mode Logic

Stapling cannot be selected for the size of paper in the tray.

Procedure

Job can be reprogrammed with different staple setting or paper size.

Y N
| Redesign Job.

Reprogram job.

012-901 Finisher H-Transport Entrance Sensor RAP

BSD-ON:12.2

Paper remains on the H-Transport Entrance Sensor.

Initial Actions

- Remove foreign substances on the sensor.
- Power Off/On

Procedure

Execute Component Control [012-190 H-Transport Entrance Sensor]. Actuate the H-Transport Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8380 and P/J8390. **P/J8380 and P/J8390 are connected correctly.**

Y N
| Connect P/J8380 and P/J8390.

Check the wire between J8380 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 5/Flag 6). **The wire between J8380 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-12 (+) and GND (-) (BSD 12.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-13 (+) and GND (-) (BSD 12.2 Flag 5).

Actuate the H-Transport Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Entrance Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-902 H-Transport Exit Sensor RAP

BSD-ON:12.2

Paper remains on the H-Transport Exit Sensor.

Initial Actions

- Remove foreign substances on the sensor.
- Power Off/On

Procedure

Execute Component Control[012-191 H-Transport Exit Sensor]. Actuate the H-Transport Exit Sensor (PL 16.3) with paper. **The display changes.**

Y N
| Check the connections of P/J8381 and P/J8390. **P/J8381 and P/J8390 are connected correctly.**

Y N
| Connect P/J8381 and P/J8390.

Check the wire between J8381 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 3/Flag 4). **The wire between J8381 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-6 (+) and GND (-) (BSD 12.2 Flag 4). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-14 (+) and GND (-) (BSD 12.2 Flag 3).

Actuate the H-Transport Exit Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Exit Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-903 Paper Remains at Compiler Entrance Sensor RAP

BSD-ON:12.3

Paper remains on the Compiler Entrance Sensor.

Initial Actions

- Remove foreign substances on the sensor.
- Power Off/On

Procedure

Execute Component Control [012-150 Compiler Entrance Sensor]. Actuate the Compiler Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8814, P/J8825 and P/J8850. **P/J8814, P/J8825 and P/J8850 are connected correctly.**

Y N
| Connect P/J8814, P/J8825 and P/J8850.

Check the wire between J8814 and J8850 for an open circuit or a short circuit (BSD 12.3 Flag 1/Flag 2). **The wire between J8814 and J8850 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850-B9 (+) and GND (-) (BSD 12.3 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850-B8 (+) and GND (-) (BSD 12.3 Flag 1). Actuate the Compiler Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the Compiler Entrance Sensor (PL 17.11).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-905 Compile Paper Sensor RAP

BSD-ON:12.4

Paper remains on the Compile Paper Sensor.

Initial Actions

- Remove foreign substances on the sensor.
- Power Off/On

Procedure

Execute Component Control [012-151 Compile Paper Sensor]. Actuate the Compile Paper Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8806 and P/J8848. **P/J8806 and P/J8848 are connected correctly.**

Y N
| Connect P/J8806 and P/J8848.

Check the wire between J8806 and J8848 for an open circuit or a short circuit (BSD 12.4 Flag 3/Flag 4). **The wire between J8806 and J8848 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8848-A6 (+) and GND (-) (BSD 12.4 Flag 4). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8848-A5 (+) and GND (-) (BSD 12.4 Flag 3).

Actuate the Compile Paper Sensor with paper. **The voltage changes.**

Y N
| Replace the Compile Paper Sensor (PL 17.9).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-923 H-Transport Entrance Sensor B RAP

BSD-ON:12.2

During standby, paper was detected by the H-Transport Entrance Sensor.

Initial Actions

- Remove foreign substances on the sensor.
- Power Off/On

Procedure

Execute Component Control [012-190 H-Transport Entrance Sensor]. Actuate the H-Transport Entrance Sensor with paper. **The display changes.**

Y N
| Check the connections of P/J8380 and P/J8390. **P/J8380 and P/J8390 are connected correctly.**

Y N
| Connect P/J8380 and P/J8390.

Check the wire between J8380 and J8390 for an open circuit or a short circuit (BSD 12.2 Flag 5/Flag 6). **The wire between J8380 and J8390 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8390-12 (+) and GND (-) (BSD 12.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
| Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8390-13 (+) and GND (-) (BSD 12.2 Flag 5). Actuate the H-Transport Entrance Sensor with paper. **The voltage changes.**

Y N
| Replace the H-Transport Entrance Sensor (PL 17.3).

Replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12).

012-132 (A-Finisher) Ent Sensor ON Jam

BSD-ON:CH15.3

Finisher Entrance Sensor does not turn On within a specified time after receiving the Sheet Exit command (the sheet to be ejected has turned ON the IOT Exit Sensor 1).

Initial Actions

- Check that the Finisher Entrance Sensor is properly installed and free from foreign objects and that the actuator is not broken.
- Power Off/On.

Procedure

Check the specifications of paper. **Paper is in spec.**

Y N
| Replace the paper with new paper that is in spec.

Check the condition of the paper. **The paper is in normal condition without any problem that causes the paper to be bent or caught.**

Y N
| Resolve any problem that causes the paper to be bent or caught.

Check the transport path for a foreign object, deformed part, and paper dust. **The transport path is in normal condition.**

Y N
| Repair the deformed part(s) and remove the foreign object(s) and paper dust.

Check that the Finisher is installed properly. **The Finisher is properly installed and properly connected to the IOT.**

Y N
| Reinstall the Finisher properly.

Enter Component Control [012-140]. Actuate the Finisher Entrance Sensor. **The display changes.**

Y N
| Check the connections of P/J8709 and P/J8729. **P/J8709 and P/J8729 are securely connected.**

Y N
| Connect P/J8709 and P/J8729 securely.

Check for an open or short circuit between J8709 and J8729. **The wires between J8709 and J8729 are OK.**

Y N
| Repair the open or short circuit.

Measure the voltage between Finisher PWB J8709-6 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
| Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

A B
| Measure the voltage between Finisher PWB J8709-5 (+) and GND (-). Actuate the Finisher Entrance Sensor. **The voltage changes.**

Y N
| Replace the Finisher Entrance Sensor (PL 22.5).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

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012-151 (A-Finisher) Compiler Exit Sensor OFF Jam

BSD-ON:CH15.3

The Compile Exit Sensor does not turn Off within a specified time after it has turned On.

Initial Actions

- Check the Compile Exit Sensor is properly installed and free from foreign objects and that the actuator is not binding.
- Power Off/On.

Procedure

Check the specifications of paper. **Paper is in spec.**

Y N
Replace the paper with new paper that is in spec.

Check the condition of the paper. **The paper is in normal condition without any problem that causes the paper to be bent or caught.**

Y N
Resolve any problem that causes the paper to be bent or caught.

Check the transport path for a foreign object, deformed part, and paper dust. **The transport path is in normal condition with no foreign object, deformed part and paper dust.**

Y N
Repair the deformed part(s) and remove the foreign object(s) and paper dust.

Check the Transport Roll for wear, deterioration and paper dust. **The Transport Roll is in normal condition, not worn and deteriorated and with no paper dust.**

Y N
Remove the paper dust and replace the worn or deteriorated Transport Roll.

Check the drive mechanism to the Transport Roll for a deformed, broken part, and/or belt damage. **The drive mechanism is free of defects.**

Y N
Repair defects or damage to the drive mechanism.

Enter Component Control [012-150]. Actuate the Compile Exit Sensor. **The display changes.**

Y N
Check the connections of P/J8709 and P/J8728. **P/J8709 and P/J8728 are securely connected.**

Y N
Connect P/J8709 and P/J8728 securely.

Check for an open or short circuit between J8709 and J8728. **The wire J8709 and J8728 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8709-3 (+) and GND (-). **The voltage is approx. +5VDC.**

A

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8709-2 (+) and GND (-). Actuate the Compile Exit Sensor. **The voltage changes.**

Y N
Replace the Compile Exit Sensor (PL 22.5).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter Component Control [012-095]. **The Finisher Transport Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8739. **P/J8706 and P/J8739 are securely connected.**

Y N
Connect P/J8706 and P/J8739 securely.

Check for an open or short circuit between J8706 and J8736. **The wire between J8706 and J8736 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-5 (+) and GND (-), and between Finisher PWB J8706-7 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit.

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher Transport Motor (PL 22.4). If the problem persists, replace the Finisher PWB (PL 22.7).

Enter [012-013]. **When the Sub Paddle Solenoid is turned On/Off, the Sub Paddle Shaft Assembly goes down/up.**

Y N
Check the Sub Paddle mechanism for a deformed or broken part and not-seated gears. **The Sub Paddle mechanism is free from defects and gears are seating properly.**

Y N
Repair defects to the Sub Paddle mechanism.

Check the connections of P/J8705 and P/J8734. **P/J8705 and P/J8734 are securely connected.**

Y N
Connect P/J8705 and P/J8734 securely.

Check for an open or short circuit between J8705 and J8734. **The wires between J8705 and J8734 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8705-1 (+) and GND (-). **The voltage is approx. +24VDC.**

B

A

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Y N

Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the circuit is OK, replace the Finisher PWB (PL 22.7).

Enter [012-013], measure the voltage between Finisher PWB J8705-2 (+) and GND (-). **The voltage changes.**

Y N

Replace the Finisher PWB (PL 22.7).

Replace the Sub Paddle Solenoid (PL 22.3).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-152 (A-Finisher) Compiler Exit Sensor ON Jam

BSD-ON:CH15.3

The Compile Exit Sensor does not turn On within a specified time after receiving the Sheet Exit command (the paper to be ejected has turned On the IOT Exit Sensor 1).

Initial Actions

- Check the Compile Exit Sensor is properly installed and free from foreign objects and that the actuator is not broken.
- Power Off/On.

Procedure

Check the specifications of paper. **Paper is in spec.**

Y N

Replace the paper with new paper that is ins spec.

Check the condition of the paper. **The paper is in normal condition without any problem that causes the paper to be bent or caught.**

Y N

Resolve any problem that causes the paper to be bent or caught.

Check the transport path for a foreign object, deformed part, and paper dust. **The transport path is in normal condition with no foreign object, deformed part and paper dust.**

Y N

Repair the deformed part(s) and remove the foreign object(s) and paper dust.

Check the Transport Roll for wear, deterioration and paper dust. **The Transport Roll is in normal condition.**

Y N

Remove the paper dust and replace the worn or deteriorated Transport Roll.

Check the drive mechanism to the Transport Roll for a deformed parts, broken parts, and/or belt damage. **The drive mechanism free from defects.**

Y N

Repair defects or damage to the drive mechanism.

Check that the Finisher is installed properly. **The Finisher is properly installed and properly connected to the IOT.**

Y N

Reinstall the Finisher properly.

Enter Component Control [012-150]. Actuate the Compile Exit Sensor. **The display changes.**

Y N

Check the connections of P/J8709 and P/J8728. **P/J8709 and P/J8728 are securely connected.**

Y N

Connect P/J8709 and P/J8728 securely.

Check for an open or short circuit between J8709 and J8728. **The wires between J 8709 and J8728 are OK.**

A

A

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8709-3 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8709-2 (+) and GND (-). Actuate the Compile Exit Sensor. **The voltage normally changes.**

Y N
Replace the Compile Exit Sensor (PL 22.5).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-095]. **The Finisher Transport Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8739. **P/J8706 and P/J8739 are securely connected.**

Y N
Connect P/J8706 and P/J8739 securely.

Check for an open or short circuit between J8706 and J8739. **The wire between J8706 and J8739 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-5 (+) and GND (-), and J8706-7 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit.

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher Transport Motor (PL 22.4). If the problem persists, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-161 (A-Finisher) Set Eject Jam

BSD-ON:CH15.6

In the Eject Motor's ejecting operation, Eject Home Sensor ON was detected within a specified time after the start of the reverse operation of the Eject Motor.

(The Eject Motor should have ejected paper, but returned Home earlier than specified.)

Initial Actions

- Check the Eject Home Sensor is properly installed, not broken, and has no foreign object.
- Power Off/On.

Procedure

Check the specifications of paper. **Paper is in spec.**

Y N
Replace the paper with new paper that is in spec.

Check the condition of the paper. **The paper is in normal condition without any problem that causes the paper to be bent or caught.**

Y N
Resolve any problem that causes the paper to be bent or caught.

Check the Eject mechanism for deformed parts, broken parts, and/or belt damage. **The Eject mechanism free from defects.**

Y N
Repair the Eject mechanism.

Enter Component Control [012-252]. Block and unblock the Eject Home Sensor with a piece of paper. **The display changes.**

Y N
Check the connections of P/J8700 and P/J8725. **P/J8700 and P/J8725 are securely connected.**

Y N
Connect P/J8700 and P/J8725 securely.

Check for an open or short circuit between J8700 and J8725. **The wires between J8700 and J8725 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8700-9 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-8 (+) and GND (-). Block and unblock the Eject Home Sensor with a piece of paper. **The voltage changes.**

Y N
Replace the Eject Home Sensor (PL 22.10).

A B

A B
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-054] and [012-056] alternately. **The Eject Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8741. **P/J8706 and P/J8741 are securely connected.**

Y N
Connect P/J8706 and P/J8741 securely.

Check for an open or short circuit between J8706 and J8741. **The wires between J8706 and J8741 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-13 (+) and GND (-), and between J8706-15 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit.

Check the Eject Motor drive mechanism for deformed parts, broken parts, and/or belt damage **The drive mechanism free from defects.**

Y N
Repair defects or damage to the drive mechanism.

Replace the Eject Motor (PL 22.9). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-211 (A-Finisher) Stacker Tray Fail

BSD-ON:CH15.8

- Within a specified time after the Stacker Tray started lifting up, the Stack Height Sensor did not detect the lifting up of the Stacker Tray.
- Within a specified time after the Stacker Tray started going down at initialization and during a job, the lower position of the tray (Full) could not be detected based on the changes in the Stacker Stack Sensor 1 and the Stacker Stack Sensor 2.

Initial Actions

- Check the Stack Height Sensor is properly installed, not broken, and has no foreign object.
- Check the Stacker Stack Sensors 1 and 2 are properly installed and have no foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The mechanism is free from defects and the gears seat properly.**

Y N
Repair the mechanism.

Run DC330[012-267].

Enter Component Control [012-267]. Block and unblock the Stack Height Sensor with a piece of paper. **The display changes.**

Y N
Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N
Connect P/J8708 and P/J8727 securely.

Check for an open or short circuit between J8708 and J8727. **The wire between J8708 and J8727 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8708-3 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8708-2 (+) and GND (-). Block and unblock the Stack Height Sensor with a piece of paper. **The voltage changes.**

Y N
Replace the Stack Height Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A

Enter [012-278]. Block and unblock the Stacker Stack Sensor 1 by rotating the actuator. **The display changes.**

Y N

Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**

Y N

Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between Finisher PWB J8707-6 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8707-5 (+) and (-). Block and unblock the Stacker Stack Sensor 1 by rotating the actuator. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 1 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-279]. Block and unblock the Stacker Stack Sensor 2 by rotating the actuator. **The display changes.**

Y N

Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**

Y N

Connect P/J8707 and P/J8721 securely.

Check for an open or short circuit between J8707 and J8721. **The wires between J8707 and J8721 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between Finisher PWB J8707-3 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8707-2 (+) and GND (-). Block and unblock the Stacker Stack Sensor 2 by rotating the actuator. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 2 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

B

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N

Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N

Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N

Repair the open or short circuit.

Enter [012-060], measure the voltage between Finisher PWB J8711-1 (+) and GND (-). **The voltage changes.**

Y N

Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between Finisher PWB J8711-2 (+) and GND (-). **The voltage changes.**

Y N

Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open and short circuit. If the problem continues, replace the Stacker Motor (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

B

012-221 (A-Finisher) Front Tamper Home Sensor ON Fail

BSD-ON:CH15.4

During the moving of the Front Tamper, when the Front Tamper Home Sensor was Off, to the home position, the Front Tamper Home Sensor did not detected turning On within a specified time after the Front Tamper started moving.

Initial Actions

- Check the Front Tamper Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Front Tamper for any foreign object, deformation and binding that prevents it from moving. **The Front Tamper is defects and binding.**

Y N
| Repair the deformation and remove the foreign object(s) and the binding.

Check the drive mechanism to the Front Tamper for a deformed or broken part and not-seated gears. **The drive mechanism is free from defects and the gears seat properly.**

Y N
| Repair the Front Tamper mechanism.

Run DC330[012-220].

Enter Component Control [012-220]. Move the Front Tamper by hand to block and unblock the Front Tamper Home Sensor. **The display changes.**

Y N
| Check the connections of P/J8700 and P/J8724. **P/J8700 and P/J8724 are securely connected.**

Y N
| Connect P/J8700 and P/J8724 securely.

Check for an open or short circuit between J8700 and J8724. **The wires between J8700 and J8724 are OK.**

Y N
| Repair the open wire or short circuit.

Measure the voltage between Finisher PWB J8700-6 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
| Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-5 (+) and GND (-). Move the Front Tamper by hand to block and unblock the Front Tamper Home Sensor. **The voltage changes.**

Y N
| Replace the Front Tamper Home Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A

Enter [012-020] and [012-023] alternately. **The Front Tamper Motor rotates.**

Y N

Check the connections of P/J8710, P/J8738A and P/J8738B. **P/J8710 P/J8738A and P/J8738B are securely connected.**

Y N
| Connect P/J8710, P/J8738A and P/J8738B securely.

Check for an open or short circuit between J8710, P/J8738A and J8738B. **The wires between are OK.**

Y N
| Repair the open or short circuit.

Measure the voltage between Finisher PWB J8710-5 (+) and GND (-), and between J8710-7 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
| Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Front Tamper Motor (PL 22.10). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A

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012-223 (A-Finisher) Front Tamper Home Sensor OFF Fail

BSD-ON:CH15.4

- At the end of the operation to turn Off the Front Tamper Home Sensor that was On, the Front Tamper Home Sensor was not detected being Off.
- The Front Tamper Home Sensor should have turned Off and then the Front Tamper Motor stopped, but the Front Tamper Home Sensor was On.

Initial Actions

- Check the Front Tamper Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Front Tamper for any foreign object, deformation and binding that prevents it from moving. **The Front Tamper free from defects and binding.**

Y N
Repair the deformation and remove the foreign object(s) and the binding.

Check the drive mechanism to the Front Tamper for a deformed or broken part and not-seated gears. **The drive mechanism is free from defects and the gears seat properly.**

Y N
Repair the Front Tamper drive mechanism.

Run DC330[012-220].

Enter Component Control [012-220]. Move the Front Tamper by hand to block and unblock the Front Tamper Home Sensor. **The display changes.**

Y N
Check the connections of P/J8700 and P/J8724. **P/J8700 and P/J8724 are securely connected.**

Y N
Connect P/J8700 and P/J8724 securely.

Check for an open or short circuit between J8700 and J8724. **The wires between J8700 and J8724 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8700-6 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-5 (+) and GND (-). Move the Front Tamper by hand to block and unblock the Front Tamper Home Sensor. **The voltage changes.**

Y N
Replace the Front Tamper Home Sensor (PL 22.10).

A B
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-020] and [012-023] alternately. **The Front Tamper Motor rotates.**

Y N
Check the connections of P/J8710, P/J8738A and P/J8738B. **P/J8710, P/J8738A and P/J8738B are securely connected.**

Y N
Connect P/J8710, P/J8738A and P/J8738B securely.

Check for an open wire or short circuit between J8710, P/J8738A and J8738B. **The wire between J8710, P/J8738A and J8738B are OK.**

Y N
Repair the open wire or short circuit.

Measure the voltage between Finisher PWB J8710-5 (+) and GND (-), and between J8710-7 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Front Tamper Motor (PL 22.10). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-224 (A-Finisher) Rear Tamper Home Sensor OFF Fail

BSD-ON:CH15.4

- At the end of the operation of trying to turn Off the Rear Tamper Home Sensor that was On, the Rear Tamper Home Sensor was not detected being Off.
- The Rear Tamper Home Sensor should have turned Off and then the Rear Tamper Motor stopped, but the Rear Tamper Home Sensor was On.

Initial Actions

- Check the Rear Tamper Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Rear Tamper for any foreign object, deformation and binding that prevents it from moving. **The Rear Tamper is free from defects and binding.**

Y N
Repair the deformation and remove the foreign object(s) and the binding.

Check the drive mechanism to the Rear Tamper for a deformed or broken part and not-seated gears. **The drive mechanism is in normal condition, not deformed or broken and with no not-seated gears.**

Y N
Repair the Rear Tamper drive mechanism.

Enter Component Control [012-221]. Move the Rear Tamper by hand to block and unblock the Rear Tamper Home Sensor. **The display of changes.**

Y N
Check the connections of P/J8700 and P/J8726. **P/J8700 and P/J8726 are securely connected.**

Y N
Connect P/J8700 and P/J8726 securely.

Check for an open or short circuit between J8700 and J8726. **The wires between J8700 and J8726 are OK.**

Y N
Repair the open wire or short circuit.

Measure the voltage between Finisher PWB J8700-12 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-11 (+) and GND (-). Move the Rear Tamper by hand to block and unblock the Rear Tamper Home Sensor. **The voltage changes.**

Y N
Replace the Rear Tamper Home Sensor (PL 22.9).

A B
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-026] and [012-029] alternately. **The Rear Tamper Motor rotates.**

Y N
Check the connections of P/J8710, P/J8737A and P/J8737B. **P/J8710, P/J8737A and P/J8737B are securely connected.**

Y N
Connect P/J8710, P/J8737A and P/J8737B securely.

Check for an open wire or short circuit between J8710, P/J8737A and J8737B. **The wire between J8710, P/J8737A and J8737B are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8710-1 (+) and GND (-), and between J8710-3 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Repair the Rear Tamper Motor (PL 22.10). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A B

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012-259 (A-Finisher) Eject Home Sensor ON Fail

BSD-ON:CH15.6

In the Eject Motor's initializing operation and ejecting operation, one of the following is met.

- With the Eject Home Sensor Off, the Eject Motor started rotating in reverse direction. Within a specified time after that, the Eject Home Sensor was not detected turning On.
- With the Eject Home Sensor Off, the Eject Motor started rotating in reverse direction. The Eject Home Sensor should have been detected turning On and then the Eject Motor stopped, but then the Eject Home Sensor was not On.

Initial Actions

- Check the Eject Home Sensor is properly installed, not broken and has no foreign object.
- Power Off/ON.

Procedure

Check the Eject mechanism for a deformed or broken part and not-seated belts. **The mechanism is free from defects and belt damage.**

Y N
| Repair the mechanism.

Run DC330[012-252].

Enter Component Control [012-252]. Block and unblock the Eject Home Sensor. **The display changes.**

Y N
| Check the connections of P/J8700 and P/J8725. **P/J8700 and P/J8725 are securely connected.**

Y N
| Connect P/J8700 and P/J8725 securely.

Check for an open wire or short circuit between J8700 and J8725. **The wire between J8700 and J8725 is normally conductive with no open wire or short circuit.**

Y N
| Repair the open wire or short circuit.

Measure the voltage between Finisher PWB J8700-9 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
| Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-8 (+) and GND (-). Block and unblock the Eject Home Sensor. **The voltage changes**

Y N
| Replace the Eject Home Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-054] and [012-056] alternately. **The Eject Motor rotates.**

Y N
| Check the connections of P/J8706 and P/J8741. **P/J8706 and P/J8741 are securely connected.**

Y N
| Connect P/J8706 and P/J8741 securely.

Check for an open or short circuit between J8706 and J8741. **The wires between J8706 and J8741 are OK.**

Y N
| Repair the open wire or short circuit.

Measure the voltage between Finisher PWB J8706-13 (+) and GND (-), and between J8706-15 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
| Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Eject Motor (PL 22.9). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-263 (A-Finisher) Rear Tamper Home Sensor ON Fail

BSD-ON:CH15.4

During the moving of the Rear Tamper from when the Rear Tamper Home Sensor was Off to the home position, the Rear Tamper Home Sensor was not detected turning On within a specified time after the Rear Tamper started moving.

Initial Actions

- Check the Rear Tamper Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Rear Tamper for any foreign object, deformation and binding that prevents it from moving. **The Rear Tamper is free from defects and binding.**

Y N
Repair the deformation and remove the foreign object(s) and the binding.

Check the drive mechanism to the Rear Tamper for a deformed or broken part and not-seated gears. **The drive mechanism is free from defects and gears seat properly.**

Y N
Repair the Rear Tamper drive mechanism.

Enter Component Control [012-221]. Move the Rear Tamper by hand to block and unblock the Rear Tamper Home Sensor. **The display changes.**

Y N
Check the connections of P/J8700 and P/J8726. **P/J8700 and P/J8726 are securely connected.**

Y N
Connect P/J8700 and P/J8726 securely.

Check for an open wire or short circuit between J8700 and J8726. **The wire between J8700 and J8726 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8700-12 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-11 (+) and GND (-). Move the Rear Tamper by hand to block and unblock the Rear Tamper Home Sensor. **The voltage changes.**

Y N
Replace the Rear Tamper Home Sensor (PL 22.9).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A
Enter [012-026] and [012-029] alternately. **The Rear Tamper Motor rotates.**

Y N
Check the connections of P/J8710, P/J8737A and P/J8737B. **P/J8710, P/J8737A and P/J8737B are securely connected.**

Y N
Connect P/J8710, P/J8737A and P/J8737B securely.

Check for an open or short circuit between J8710, P/J8737A and J8737B. **The wires between J8710, P/J8737A and J8737B are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8710-1 (+) and GND (-), and between J8710-3 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Rear Tamper Motor (PL 22.10). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-280 (A-Finisher) Eject Home Sensor OFF Fail

BSD-ON:CH15.6

In the Eject Motor's initializing operation and ejecting operation, the Eject Motor had rotated forward for a time corresponding to a specified qty of pulses since the Eject Home Sensor was On, and then the motor stopped, but then the Eject Home Sensor was not detected turning Off.

Initial Actions

- Check the Eject Home Sensor is properly installed, not broken and has no foreign object.
- Power Off/ON.

Procedure

Check the Eject mechanism for a deformed or broken part and not-seated belts. **The mechanism is free from defects and belt damage.**

Y N
Repair the mechanism.

Enter Component Control [012-252]. Block and unblock the Eject Home Sensor with a piece of paper. **The display changes.**

Y N
Check the connections of P/J8700 and P/J8725. **P/J8700 and P/J8725 are securely connected.**

Y N
Connect P/J8700 and P/J8725 securely.

Check for an open or short circuit between J8700 and J8725. **The wires between J8700 and J8725 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8700-9 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8700-8 (+) and GND (-). Block and unblock the Eject Home Sensor with a piece of paper. **The voltage changes.**

Y N
Replace the Eject Home Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-054] and [012-056] alternately. **The Eject Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8741. **P/J8706 and P/J8741 are securely connected.**

Y N
Connect P/J8706 and P/J8741 securely.

A B

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B
Check for an open or short circuit between J8706 and J8741. **The wires between J8706 and J8741 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-13 (+) and GND (-), and between J8706-15 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Eject Motor (PL 22.9). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-283 (A-Finisher) Set Clamp Home Sensor ON Fail

BSD-ON:CH15.7

In the initialize operations each at Power On, when Interlock closed and at the start of a job, and in the Set Clamp Motor's ejecting operation, the Set Clamp Home Sensor was not detected turning On within a specified time after the start of the Set Clamp Motor operation.

Initial Actions

- Check the Set Clamp Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Set Clamp mechanism for a deformed or broken part and not-seated belts. **The mechanism is free from defects and belt damage.**

Y N
Repair the Set Clamp mechanism.

Enter Component Control [012-251]. Rotate the Set Clamp Shaft by hand to block and unblock the Set Clamp Home Sensor. **The display changes.**

Y N
Check the connections of P/J8707, P/J8742B, P/J8742A and P/J8723. **P/J8707, P/J8742B, P/J8742A and P/J8723 are securely connected.**

Y N
Connect P/J8707, P/J8742B, P/J8742A and P/J8723 securely.

Check for an open or short circuit between J8707 and J8742B, and between J8742A and J8723. **The wires between J8707 and J8742B and between J8742A and J8723 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8707-9 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8707-8 (+) and GND (-). Rotate the Set Clamp Shaft by hand to block and unblock the Set Clamp Home Sensor. **The voltage changes.**

Y N
Replace the Set Clamp Home Sensor (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-017]. **The Set Clamp Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8740. **P/J8706 and P/J8740 are securely connected.**

A

Y N
Connect P/J8706 and P/J8740 securely.

Check for an open or short circuit between J8706 and J8740. **The wires between J8706 and J8740 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-9 (+) and GND (-), and between J8706-11 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Set Clamp Motor (PL 22.9). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

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012-284 (A-Finisher) Set Clamp Home Sensor OFF Fail

BSD-ON:CH15.7

In the initialize operations each at Power On, when Interlock closed and at the start of a job, and in the Set Clamp Motor's ejecting operation, the Set Clamp Home Sensor was not detected turning Off within a specified time after the start of the Set Clamp Motor operation.

Initial Actions

- Check the Set Clamp Home Sensor is properly installed and has no foreign object and that the actuator is not broken.
- Power Off/ON.

Procedure

Check the Set Clamp mechanism for a deformed or broken part and not-seated belts. **The mechanism is free from defects and belt damage.**

Y N
Repair the Set CLamp mechanism.

Enter Component Control [012-251]. Rotate the Set Clamp Shaft by hand to block and unblock the Set Clamp Home Sensor. **The display changes.**

Y N
Check the connections of P/J8707, P/J8742B, P/J8742A and P/J8723. **P/J8707, P/J8742B, P/J8742A and P/J8723 are securely connected.**

Y N
Connect P/J8707, P/J8742B, P/J8742A and P/J8723 securely.

Check for an open or short circuit between J8707 and J8742B, and between J8742A and J8723. **The wires between J8707 and J8742B and between J8742A and J8723 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8707-9 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8707-8 (+) and GND (-). Rotate the Set Clamp Shaft by hand to block and unblock the acceptance surface of the Set Clamp Home Sensor. **The voltage changes normally.**

Y N
Replace the Set Clamp Home Sensor (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-017]. **The Set Clamp Motor rotates.**

Y N
Check the connections of P/J8706 and P/J8740. **P/J8706 and P/J8740 are securely connected.**

A

Y N
Connect P/J8706 and P/J8740 securely.

Check for an open or short circuit between J8706 and J8740. **The wires between J8706 and J8740 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8706-9 (+) and GND (-), and between J8706-11 (+) and GND (-). **Each voltage is approx. +24VDC.**

Y N
Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Set Clamp Motor (PL 22.9). If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

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012-291 (A-Finisher) Stapler Fail

BSD-ON:CH15.5

Within a specified time after the Staple Motor started rotating in reverse direction, the Staple Head Home Sensor was never detected turning On.

Initial Actions

- Check that the Staple Assembly and the Cartridge are properly installed, not broken and include no foreign objects.
- Power Off/ON.

Procedure

Enter Component Control [012-046] and [012-047] alternately. **The Staple Motor rotates.**

Y N
Check the connections of P/J8705 and P/J8735. **P/J8705 and P/J8735 are securely connected.**

Y N
Connect P/J8705 and P/J8735 securely.

Check for an open or short circuit between J8705 and J8735. **The wires between J8705 and J8735 are OK.**

Y N
Repair the open wire or short circuit.

Enter [012-046] and [012-047] alternately. Measure the voltages between Finisher PWB J8705-3, 4, 5, 6 (+) and GND (-). **Each voltage changes.**

Y N
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7)

Replace the Staple Assembly (PL 22.4).

Enter [012-046] and [012-047] alternately. **The display changes.**

Y N
Check the connections of P/J8701 and P/J8731. **P/J8701 and P/J8731 are securely connected.**

Y N
Connect P/J8701 and P/J8731 securely.

Check for an open or short circuit between J8701 and J8731. **The wires between J8701 and J8731 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between Finisher PWB J8701-4 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

A B
Measure the voltage between Finisher PWB P/J8701-5 (+) and GND (-). Enter [012-046] and [012-047] alternately. **The voltage changes.**

Y N
Replace the Staple Assembly (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A B

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012-301 (A-Finisher) Top Cover Interlock OPEN

BSD-ON:CH15.1

The Top Cover Interlock Open was detected.

Initial Actions

- Check that the Top Cover can be opened and closed.
- Check the Finisher Top Cover Interlock Sensor and the Finisher Top Cover Interlock +24V Switch are properly installed, not broken, and have no foreign objects
- Power Off/ON.

Procedure

Check the following;

- Top Cover installation
- Finisher Top Cover Interlock Sensor for damage
- Finisher Top Cover Interlock +24V Switch actuator for any damage

These parts are in normal condition.

Y N

Repair or replace any of the parts that has a defect.

Enter Component Control [012-300]. Open and close the Top Cover to block and unblock the Finisher Top Cover Interlock Sensor. **The display changes.**

Y N

Check the connections of P/J8701 and P/J8730. **P/J8701 and P/J8730 are securely connected.**

Y N

Connect P/J8701 and P/J8730 securely.

Check for an open or short circuit between J8701 and J8730. **The wires between J8701 and J8730 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between Finisher PWB J8701-3 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8701-2 (+) and GND (-). Open and close the Top Cover to block and unblock the Finisher Top Cover Interlock Sensor. **The voltage changes.**

Y N

Replace the Finisher Top Cover Interlock Sensor (PL 22.3).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Measure the voltage between Finisher PWB J8702-1 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N

Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-302 (A-Finisher) Front Cover Interlock OPEN

BSD-ON:CH15.1

The Front Cover Interlock Open was detected.

Initial Actions

- Check that the Top Cover can be opened and closed.
- Check that the Finisher Front Interlock Switch is properly installed, not broken, and has no foreign object.
- Power Off/ON.

Procedure

Check the following;

- Front Cover installation
- hinges for any damage
- Finisher Top Cover Interlock Sensor for any damage

Thee above parts are OK.

Y N
| Repair or replace any of the parts that are defected.

Enter Component Control [012-302]. Open and close the Front Cover to turn On and Off the Finisher Front Interlock Switch. **The display changes.**

Y N
| Connect the connections of P/J8702 and P/J8733. **P/J8702 and P/J8733 are securely connected.**

Y N
| Connect P/J8702 and P/J8733 securely.

Check for an open or short circuit between J8702 and J8733. **The wires between J8702 and J8733 are OK.**

Y N
| Repair the open or short circuit.

Measure the voltage between Finisher PWB J8702-4 (+) and GND (-). Open and close the Front Cover to turn On and Off the Finisher Front Interlock Switch. **The voltage changes.**

Y N
| Replace the Finisher Front Interlock Switch (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Measure the voltage between Finisher PWB J8702-1 (+) and (-). **The voltage is approx. +24VDC.**

Y N
| Go to Wirenet 7.2.38 A-Finisher +24VDC and check the +24VDC circuit.

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

012-903 (A-Finisher) Paper Remains at Compiler Exit Sensor

BSD-ON:CH15.3

- At Power On, the Compile Exit Sensor detected paper.
- While the Main Motor was operating at initialization at Power On, the Compile Exit Sensor detected paper.
- When the Cycle down operation at the end of a job was complete, the Compile Exit Sensor was On.

Initial Actions

- Check the power supply voltage at the customer site for a drop.
- Check the Compile Exit Sensor is properly installed and free from foreign objects and that the actuator is not binding.
- Power Off/ON.

Procedure

Check for paper remaining on the Compile Exit Sensor and how it is installed. **The sensor is properly installed with no paper left there.**

Y N
| Remove the remaining paper and reinstall the sensor properly.

Run DC330[012-150].

Enter Component Control [012-150]. Actuate the Compile Exit Sensor. **The display changes.**

Y N
| Check the connections of P/J8709 and P/J8728. **P/J8709 and P/J8728 are securely connected.**

Y N
| Connect P/J8709 and P/J8728.

Check for an open or short circuit between J8709 and J8728. **The wires between J8709 and J8728 are OK.**

Y N
| Repair the open or short circuit.

Measure the voltage between Finisher PWB J8709-3 (+) and GND (-). **The voltage is approx. +5VDC.**

Y N
| Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between Finisher PWB J8702-2 (+) and GND (-). Actuate the Compile Exit Sensor. **The voltage changes.**

Y N
| Replace the Compile Exit Sensor (PL 22.5).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

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012-935 (A-Finisher) Paper Remains at Ent Sensor

BSD-ON:CH15.3

- At Power On the Finisher Entrance Sensor detected paper.
- While the Main Motor was operating at initialization at Power On, the Finisher Entrance Sensor detected paper.
- When the Cycle down operation at the end of a job was complete, the Finisher Entrance Sensor was On.

Initial Actions

- Check the power supply voltage at the customer site for a drop.
- Check the Finisher Entrance Sensor is properly installed and free from foreign objects and that the actuator is not binding.
- Power Off/ON.

Procedure

Check for paper remaining on the Finisher Entrance Sensor and how it is installed. **The sensor is properly installed and free from paper.**

Y N

Remove the remaining paper and reinstall the sensor properly.

Enter Component Control [012-140]. Move the Finisher Entrance Sensor actuator by hand or with a piece of paper. **The display changes.**

Y N

Check the connections of P/J8709 and P/J8729. **P/J8709 and P/J8729 are securely connected.**

Y N

Connect P/J8709 and P/J8729 securely.

Check for an open or short circuit between J8709 and J8729. **The wire between J8709 and J8729 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between J8709-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8709-5 (+) on the Finisher PWB and GND (-). Actuate the Finisher Entrance Sensor. **The voltage changes.**

Y N

Replace the Finisher Entrance Sensor (PL 22.5).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

016-210 Software Option (HDD Error) RAP

One of the Software option functions cannot be executed due to a HDD error or the HDD is not installed.

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists, replace the HDD (PL 11.2).

016-211 Software Option (System Memory Low) RAP

One of the Software option functions cannot be executed due to insufficient System Memory capacity.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Covers
- Mailbox Screen
- Properties
- Properties Features
- Data Encryption
- Memory Full Procedure
- Maximum Stored Pages

016-212 Software Option (Page Memory Low) RAP

One of the Software option functions cannot be executed due to insufficient Page Memory capacity.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Properties
- Properties Features
- Maximum Stored Pages
- Mailbox Screen
- Data Encryption
- Memory Full Procedure
- Covers

016-213 Software Option (Printer PWB) RAP

BSD-ON:16.1

One of the Software option functions cannot be executed due to a PRT_CARD error or PRT_CARD not installed.

Procedure

Check installation of the Printer PWB (PL 11.2)

016-214 Serial Number Mismatch RAP

The Serial Numbers are not in sync.

Initial Actions

Power Off/On

Procedure

Go to GP 4.

016-215 Software Option RAP

BSD-ON:16.1/17.1

Functions such as scanner cannot be executed due to an option PWB error.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of PWBs on PL 11.1 and PL 11.2.

016-216 Software Option RAP

BSD-ON:16.1/17.1

Functions such as scanner cannot be executed due to an option PWB error.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of PWBs on PL 11.1 and PL 11.2.

016-217 Software Option RAP

BSD-ON:16.1/17.1

Functions such as scanner cannot be executed due to an option PWB error.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of PWBs on PL 11.1 and PL 11.2.

016-219 Software Option RAP

BSD-ON:16.1/17.1

Functions such as scanner cannot be executed due to an option PWB error.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of PWBs on PL 11.1 and PL 11.2.

016-311 Scanner Install RAP

BSD-ON:6.2

The system detected that the scanner is not installed.

Procedure

Check the electrical connections between the IIT and the ESS.

Ensure ribbon cable is connected to P/J 320 on ESS PWB (PL 11.2)

NOTE: FAX may be removed for access (PL 11.3)

If the problem persists, check the connections on the IIT/IPS PWB (PL 13.3)

016-315 IIT Interface RAP

BSD-ON:6.2

An error was detected in the IF between the IIT and the IOT.

Procedure

Check the connection of each connector between the IIT and the IOT.

Replace the IIT/IPS PWB (PL 13.3) If the problem persists, replace the MCU PWB (PL 11.1).

016-316 Page Memory Not Detected RAP

The system detected that the Page Memory (Standard) of the scanner was not installed.

Initial Actions

Power Off/On

Procedure

Ensure P/J's on the ESS PWB (PL 11.2) and the IIT/IPS PWB (PL 13.3) are securely connected.

Check the installation of the Printer PWB if present.

016-317 Page Memory Error- Standard RAP

BSD-ON:16.1

The system detected an error in the Page Memory (Standard) of the scanner.

Initial Actions

Power Off/On

Procedure

Ensure P/J's on the ESS PWB (PL 11.2) and the IIT/IPS PWB (PL 13.3) are securely connected.

Check the installation of the Printer PWB if present.

016-318 Page Memory Error- Option RAP

BSD-ON:16.1

The system detected an error in the Page Memory (Option) of the scanner.

Initial Actions

Power Off/On

Procedure

Check the installation of the Printer PWB if present.

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Properties
- Properties Features
- Maximum Stored Pages
- Mailbox Screen
- Data Encryption
- Memory Full Procedure
- Covers

016-321 Fax Module RAP

BSD-ON:16.1/17.1

An error was detected at System Check Fax.

Initial Actions

Power Off/On

Procedure

Check the installation of the FAX PWB.

Check that P/J's on FAX PWB are securely connected.

016-322 JBA Account Full RAP

BSD-ON:16.1

The accumulated accounting data in Job Based Accounting reached the specified value.

Procedure

Switch the power off then on 2 minutes after the job is attempted (after an external Accounting Server has read the accounting data).

016-323 B Formatter RAP

An internal formatting error occurred.

Initial Actions

Power Off/On

Procedure

If the problem persists, replace the ESS PWB (PL 11.2).

016-450 SMB Host Name Duplicated RAP

A PC of the same host name exists on the network.

Initial Actions

Power Off/On

Procedure

Refer customer to Systems Administrator Guide headings:

- Information Checklist
- Changing the Settings
- Setting Format of config.txt

016-454 DNS Dynamic Update RAP

Unable to retrieve the IP address from DNS.

Initial Actions

Power Off/On

Procedure

Check the DNS configuration and IP address of the retrieve setting.

016-455 SMTP Server Time-out RAP

There is no response from the SMTP server within the specified time (60sec).

Initial Actions

Power Off/On

Procedure

If the time on the machine is incorrect, User Guide heading Changing the Default Time Settings procedure resets the time. Or follow procedure below.

1. Press the **Log In/Out** button on the control panel.
2. Enter the Key Operator ID using the numeric keypad on the control panel. Select Confirm on the System Administrator Login screen.

NOTE: The default Key Operator ID is (five one's) "11111". If the Authentication feature is enabled, you may be required to enter a password. The default password is "x-admin".

3. Select System Settings on the System Administrator Menu screen.
4. Select System Settings on the System Settings screen.
5. Select Common Settings on the System Settings screen.
6. Select Machine Clock/Timers on the Common Settings screen.
7. Select the required option.
8. Select Change Settings.
9. Change the value using the scroll buttons or select required options.
10. Select Save.
11. Return to main menu.

016-456 SMTP time asynchronous RAP

A standard time synchronized source message and an asynchronous message was received from the SMTP server.

Initial Actions

Power Off/On

Procedure

If the time on the machine is incorrect, User Guide heading Changing the Default Time Settings procedure resets the time. Or follow procedure below.

1. Press the **Log In/Out** button on the control panel.
2. Enter the Key Operator ID using the numeric keypad on the control panel. Select Confirm on the System Administrator Login screen.

***NOTE:** The default Key Operator ID is (five one's) "11111". If the Authentication feature is enabled, you may be required to enter a password. The default password is "x-admin".*

3. Select System Settings on the System Administrator Menu screen.
4. Select System Settings on the System Settings screen.
5. Select Common Settings on the System Settings screen.
6. Select Machine Clock/Timers on the Common Settings screen.
7. Select the required option.
8. Select Change Settings.
9. Change the value using the scroll buttons or select required options.
10. Select Save.
11. Return to main menu.

016-461 TBD RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-500 DIMM RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-501 S2X RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-502 ROM Write RAP

There is a ROM writing failure in the Controller.

Initial Actions

Power Off/On

Procedure

Remove and replace the DIMM (PL 11.2)

If the problem persists, disconnect and reconnect the electrical connections on the HDD (PL 11.2)

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

016-503 SMTP Redirector RAP

The Redirector cannot resolve the SMTP (Simple Mail Transfer Protocol) Server address.

Initial Actions

Power Off/On

Procedure

Refer customer to System Administrator Guide headings

- E-mail
- Information Checklist

016-504 Redirector POP Server RAP

The Redirector cannot resolve the POP (Post Office Protocol) Server address.

Initial Actions

Power Off/On

Procedure

Specify the correct POP Server name or specify the IP address.

Refer customer to System Administrator Guide headings

- E-mail
- E-mail Environments
- E-mail Setting Setup
- POP3 Server Settings
- Test Mail

016-505 Redirector POP Authentication RAP

The Redirector cannot pass POP (Post Office Protocol) authentication.

Initial Actions

Power Off/On

Procedure

Check that the login name and password for the POP Server are correct.

Refer customer to System Administrator Guide headings

- E-mail
- E-mail Environments
- E-mail Setting Setup
- POP3 Server Settings
- Test Mail

016-506 Image Log RAP

The Image Log in the HDD is full.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-507 Image Log Send RAP

The Image Log send command 1 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-508 Image Log RAP

The Image Log send command 2 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-509 Image Log RAP

The Image Log block send command 1 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-510 Image Log RAP

The Image Log block send command 2 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-511 Image Log RAP

The Image Log invalid send rule 1 executed in the HD.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2)

016-512 Image Log RAP

The Image Log invalid send rule 2 executed in the HD.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HDD. Switch on the power.

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 11.2).

016-522 LDAP RAP

There is a LDAP (Lightweight Directory Access Protocol) server SSL (Secure Socket Layer) authentication error. An SSL Client Certificate could not be acquired.

The LDAP server requires an SSL Client Certificate.

Initial Actions

Power Off/On

Procedure

Set the SSL Client Certificate on the machine.

016-523 LDAP RAP

There is a LDAP (Lightweight Directory Access Protocol) server SSL (Secure Socket Layer) authentication error. The server certificate data was incorrect.

The machine does not trust the LDAP server's SSL certificate.

Initial Actions

Power Off/On

Procedure

Register the root certificate of the LDAP server SSL Certificate on the machine.

016-524 LDAP RAP

There was a LDAP server SSL authentication error. The server certificate is not yet valid.

Initial Actions

Power Off/On

Procedure

Change to a valid LDAP server SSL certificate. The [Authentication with SSL] setting in [LDAP Server/Directory Service] can be set to [Disabled] to avoid an error, but the connected LDAP server security is not guaranteed.

016-525 LDAP RAP

There was a LDAP server SSL authentication error. The server certificate has expired.

Initial Actions

Power Off/On

Procedure

Change to a valid LDAP server SSL certificate. The [Authentication with SSL] setting in [LDAP Server/Directory Service] can be set to [Disabled] to avoid an error, but the connected LDAP server security is not guaranteed.

016-526 LDAP RAP

There was a LDAP server SSL authentication error. The server name does not match the certificate.

Initial Actions

Power Off/On

Procedure

Set the LDAP server address on the machine to match the address on the LDAP server SSL certificate. The [Authentication with SSL] setting in [LDAP Server/Directory Service] can be set to [Disable] to avoid an error, but the connected LDAP server security is not guaranteed.

016-527 LDAP RAP

There was a LDAP server SSL authentication error. There was an SSL authentication internal error.

Initial Actions

Power Off/On

Procedure

This error was generated by the software.

016-533 LDAP RAP

There was a Kerberos server authentication protocol error. The machine and the Kerberos server clocks have a time difference that exceeds the Kerberos server clock skew value.

Initial Actions

Power Off/On

Procedure

Check that the machine and the Kerberos server clocks have the correct time.

016-534 LDAP RAP

There was a Kerberos server authentication protocol error. The realm assigned to the machine does not exist on the Kerberos server or the machine is not connecting to the Kerberos server address.

Initial Actions

Power Off/On

Procedure

Check that the realm name and Kerberos server address settings on the machine are correct. If connected with Windows 2000 or Windows 2003 Server, make sure the realm name is in upper case characters.

016-539 LDAP RAP

There was a Kerberos server authentication protocol error.

Initial Actions

Power Off/On

Procedure

This error was generated by the software.

016-539 LDAP RAP

There was a Kerberos server authentication protocol error.

Initial Actions

Power Off/On

Procedure

This error was generated by the software.

016-543 Attestation Agent error 543 (REALM_UNKNOWN) RAP

The specified realm/domain has disappeared from the ApeosWare Authentication Agent.(The domain was manually deleted at the ApeosWare Authentication Agent after obtaining the realm name list from the device.)

Procedure

Either update the realm list using the Realm Update button of the device or add the domain into the ApeosWare Authentication Agent.

016-545 Attestation Agent error 545 (CLOCKSKEW_ERR) RAP

A Clock skew error has occurred in attestation.

The time of ApeosWare Authentication Agent and ActiveDirectory is out of sync with the upper limit of the Kerberos ClockSkew set in the ActiveDirectory.

Procedure

Match the time of the PC where the ApeosWare Authentication agent is installed in with the time of the PC where the ActiveDirectory is.

Furthermore, if the Windows Time Service in the PC where the ApeosWare Authentication Agent is installed is stopped, start it up.

Refer to the ApeosWare Authentication agent User Guide for solutions.

016-546 Attestation Agent error 546 RAP

A general user tried to obtain the information of another user.

Procedure

Contact our Customer Support Center.

016-548 Attestation Agent error 548 (UNREGISTERED_DEVICE) RAP

The information of the machine that is performing the authentication operation is not in the database (GetUserInformation method only).

The device is not registered in the ApeosWare Authentication Agent.

Procedure

Register the device in the ApeosWare Authentication Agent. Refer to the **ApeosWare Authentication Agent User Guide** for solutions. Match the time of the PC where the ApeosWare Authentication agent is installed in with the time of the PC where the **ActiveDirectory** is.

016-553 Attestation Agent error 553 (VERSION_MISMATCH) RAP

The version information written in the SOAP Header cannot be understood. The ApeosWare Authentication Agent does not support the version of the device interface.

Procedure

The version of the ApeosWare Authentication Agent needs to be upgraded.

Check that the machine is a product that is supported by the upgraded version of the ApeosWare Authentication Agent.

016-554 Attestation Agent error 554 (CONFIGURATION_ERROR) RAP

The existence check for the specified user in the event of an authentication error has failed.

The domain user reference login name or the reference password of the ApeosWare Authentication Agent domain is incorrect.

Procedure

Set the domain user reference login name or the reference password of the ApeosWare Authentication Agent domain to the correct items.

016-555 Attestation Agent error 555 (SERVICE_ISNOT_WORKING) RAP

Timed out when connecting to the authentication server.

The ApeosWare Authentication Agent cannot connect to the database or the Active Directory.

Procedure

Check that the ApeosWare Authentication Agent can connect to the database or the Active Directory.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-556 Attestation Agent error 556 (SERVICE_IS_PROCESSING) RAP

Timeout during database processing.

Error has occurred in the database that the ApeosWare Authentication Agent is connected to due to overloading.

Procedure

Wait for a while before authenticating again as the service is overloaded.

If that did not solve the problem, check the ApeosWare Authentication Agent.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-557 Attestation Agent error 557 (INTERNAL_ERROR) RAP

Another error has occurred in attestation.

An internal error has occurred in the ApeosWare Authentication Agent.

Procedure

Check the ApeosWare Authentication Agent.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-558 Attestation Agent error 558 (MISC_ERR) RAP

The machine has received an unknown error from the ApeosWare Authentication Agent.

Procedure

Turn the power OFF then ON.

016-560 Attestation Agent error 560 RAP

A communication error has occurred between the ApeosWare Authentication Agent and the machine

Procedure

Check that the network cable is connected and check the settings of the Authentication Agent function.

If DNS address of the Server is set as the Server name/IP address of the ApeosWare Authentication Agent in the printer function settings list, check that DNS is enabled

016-562 Attestation Agent error 562 RAP

Attestation Agent Error

*ICCG External Attestation agent detected a duplicated ID

Procedure

Correct a temporary user entered into ActiveDirectory or Attestation Agent so that it does not have the same IC card info as any other user.

016-569 Attestation Agent error 569 RAP

Errors related to the functions of the Authentication Agent other than listed previously Attestation Agent Error

Procedure

Turn the power OFF then ON

016-574 Host Name Error RAP

A failure in resolving a problem with a host name in FTP scan

Procedure

Check the connection to DNS.

Or check that the destination server name is entered on DNS.

016-575 DNS Server Error in FTP RAP

In FTP scan, the server was not found on DNS.

Procedure

Set DNS address.

Or set the destination server address, using IP address.

016-576 Server Connection Error in FTP RAP

In FTP scan, there is a problem with the connection to the server.

Procedure

Check that the destination FTP server and this machine are set up so that they can communicate with each other on the network. For example, check the following:

- The IP address of the server is correct
- The network cable is connected

016-577 FTP Service RAP

FTP Service has a problem.

Procedure

Check the following:

- FTP Service is activated
- Port No. used for FTP Service is correct

016-578 Login/Password Error RAP

A login name or password error in FTP scan.

Procedure

Check the login name (user name) and password are correct.

016-579 Scanning Picture Error RAP

There is a problem with the place to save images scanned in FTP scan.

Procedure

Check that the scanned-images saving place on the FTP scan server is correct.

016-580 File Name Acquisition Failure RAP

A failure in acquiring a file name/folder on the FTP scan server.

Procedure

Check the right to access the FTP scan server.

016-581 File Name Suffix Limit Error RAP

The suffix of a FTP scan file name/folder name exceeds the limit.

Procedure

Change the file name/destination folder, or move or delete the file in the destination folder.

016-582 File Creation Failure RAP

A failure in creating a FTP scan file.

Procedure

Check the following:

- That the specified name is a file name that can be created in the storage place.
- That the storage place has some space available.

016-583 Lock Folder Creation Failure RAP

A failure in creating a FTP scan lock folder

Procedure

Check the following:

- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.
- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

016-584 Folder Creation Failure RAP

A failure in creating a FTP scan folder

Procedure

Check the following:

- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

016-585 File Delete Failure RAP

A failure in deleting a FTP scan file.Check the right to access the server.

Procedure

Check the right to access the server.

016-586 Lock Folder Delete Failure RAP

A failure in deleting a FTP scan lock folder

Procedure

Check the following:

- The right to access the server.
- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.

016-587 Folder Delete Failure RAP

A failure in deleting a FTP scan folder

Procedure

Check the right to access the server.

016-588 Data Write-in Failure RAP

A failure in writing data onto the FTP scan server

Procedure

Check that the storage place has some space available.

016-589 Data Read Failure RAP

A failure in reading data from the FTP scan server

Procedure

Check that the user has the **[right to read data from]** folder on the server.

016-590 Data Reading Failure RAP

[Overwrite prohibited] is selected as action to be taken when a duplicated FTP scan file name is detected.

Procedure

Select any option other than [Overwrite prohibited].

016-591 Scan Filing Policy Injustice RAP

FTP scan filing policy is illegal (when Add selected).

Procedure

If [Add] is selected as action to be taken when a duplicated file name is detected, check that the file format is not a multi-page one.

016-592 NEXTNAME.DAT file access error RAP

NEXTNAME.DAT file access error in FTP scan

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that NEXTNAME.DAT file is correct.

016-593 Internal Scan Error RAP

An internal error occurred in FTP scan.

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-594 TYPE Command Failure RAP

In FTP scan, a TYPE command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-595 Port Command Failure RAP

In FTP scan, a Port command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-596 CDUP Command Failure RAP

In FTP scan, a CDUP command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-597 Same Name File Exists RAP

FTP scanning stopped because another file (folder) with the same name existed. (CreditMutuel specification)

Procedure

Check the following:

- With multiple machines not accessing the same folder on the same server, repeat the same operation.
- If this still reoccurs, contact our Custom Support Center.

016-600 Key Operator Authentication Locked RAP

The number of incorrect Key Operator log in attempts reached the limit.

Procedure

NOTE: Default is 5 events. Chain 700-xxx Common [700-563] can be set between 1 to 10 events.

With this feature enabled, the machine denies access when an incorrect System Administrator ID is entered the selected number of times.

If required, refer to GP 3 to reset password to (five one's) 11111 default if the System Administrator ID is unavailable.

016-601 Illegal Access Detection RAP

The number of incorrect authentication log in attempts reached the limit.

Procedure

NOTE: Default is 10 users. Chain 700-xxx Common [700-564] can be set 1 to 600 users.

If required, refer to GP 3 to reset password to (five one's) 11111 default if the System Administrator ID is unavailable.

016-701 ART EX Memory Expended RAP

Insufficient memory was detected while using the ART EX.

Initial Actions

Power Off/On

Procedure

Decrease the resolution setting.

016-702 Out of Page Buffer RAP

Insufficient Print Page Buffer is detected.

Initial Actions

Power Off/On

Procedure

Requires Print Page buffer memory expansion, a decrease of resolution, or set to Print Guarantee mode (Print Guarantee mode is only for PLW). For PCL, set the PCL Heap Memory/Band Buffer Ratio to above 1:2.

Refer customer to System Administrator Guide headings

- When printing fails
- Setting Format of config.txt

016-703 E-mail To Invalid Box RAP

The system detected an unopened or invalid mailbox and aborted a job when receiving an E-mail.

Initial Actions

Power Off/On

Procedure

Send the E-mail to a valid mailbox destination or set up the appropriate mailbox.

Refer customer to Mailbox section in User Guide.

016-704 Mailbox Full RAP

When accessing the HD, the control logic detected that the mailbox was full (it exceeded the maximum number of documents per box) and aborted the job.

Initial Actions

Power Off/On

Procedure

Delete unnecessary documents and then repeat the operation.

Refer customer to Mailbox section in User Guide.

016-705 Secure Print RAP

Registration for Secure Print failed because Security Storage cannot be done without a HD.

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 9.2).

If the problem occurred at installation, check whether the operations for Secure Print are correct.

Refer customer to User Guide headings:

- Print
- Secure Print
- Print Driver Features

016-706 Maximum Users Exceeded RAP

When accessing the HD, the system detected that the job exceeded the maximum number for users for Proof Prints and aborted the job.

Initial Actions

Power Off/On

Procedure

Delete unnecessary documents/users and print again.

Refer customer to User Guide headings Maximum Stored Pages,

Create/Check User Accounts

016-707 Sample Print RAP

Proof Print Registration failed because it cannot be stored without a HD.

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 11.2).

If the problem occurred at installation, check whether the operations for Proof Print are correct.

016-708 HDD Full Annotation/Watermark RAP

When an Annotation/Watermark image was to be stored in the HDD, the Full status was detected and the job was aborted.

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists, replace the HDD (PL 9.2).

016-709 ART EX Command RAP

An ART EX command error occurred during PLW processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-710 Delayed Print RAP

- A Delay Print Job was received from the machine that has no HDD installed.
- The number of jobs that can be simultaneously received (100 jobs) was exceeded.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists, replace the HDD (PL 11.2).

016-711 E-mail Transmission Size Limit RAP

The send module (redirector) attempted to send data exceeding the system data size limit for Scan to E-mail.

Initial Actions

Power Off/On

Procedure

Decrease the send parameter for resolution (send image quality) and resend.

Reduce the image using the send parameter and resend (e.g. A3 to A4).

Change the [Upper Limit of Data Size] setting in the Specifications Settings Screen on the UI Panel (default 2MB recommended).

016-712 Panther Capacity (I-Formatted) RAP

The processed data is too small (the specified range for the document is too small).

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-713 Security Box Password RAP

There is a password error in the security box.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-714 Security Box Enable RAP

The security box is not enabled.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-716 TIFF Data Overflow RAP

There is a spooling problem with TIFF (Tagged Image File Format) data.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists perform GP 6 Special Boot Modes Spool Initialization.

If the problem persists remove and replace the DIMM (PL 11.2)

If the problem persists, disconnect and reconnect HDD electrical connections (PL 11.2)

016-717 Fax/iFax Send RAP

The Send Result is not detected.

Initial Actions

Power Off/On

Procedure

Cancel and rerun the job

016-718 PCL6 Memory RAP

Insufficient memory was detected while performing Printer COntrol Language functions.

Initial Actions

Power Off/On

Procedure

Cancel the job, reduce resolution, and rerun the job.

016-719 Out of PCL Memory RAP

Insufficient memory is detected while using PCL.

Initial Actions

Power Off/On

Procedure

The print job exceeded the memory capacity of the print control language driver. Ask customer to break up the print job into smaller parts.

016-720 PCL Command RAP

A PCL command error occurred during PCL processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-721 Other Errors RAP

The Auto Tray Switching feature was enabled when Auto Paper Off is selected for all paper trays on the Paper Type Priority screen.

Procedure

Inform customer that when Auto Tray Switching feature is enabled, select a paper type other than Auto Paper Off option on the Paper Type Priority screen.

016-722 Staple Position RAP

The job was cancelled when the Staple Position could not be determined.

Initial Actions

Ensure the staple position selection matches the available staple position in the finisher.

Procedure

Refer customer to following User Guide headings:

- [Image Rotation] - [Rotation Direction Screen]

016-724 Staple Position RAP

The staple selection and hole punch selection is not compatible.

Initial Actions

Ensure the staple position selection and hole punch position selection is compatible (no holes will be punched on staples or staples located in holes)

Procedure

Refer customer to following User Guide headings:

- [Image Rotation] - [Rotation Direction Screen]

016-725 B-Formatter Image RAP

There is a B-Formatter Library image conversion error.

Initial Actions

Power Off/On

Procedure

If the problem persists, replace the ESS PWB (PL 11.2).

016-726 PDL Auto Switch RAP

The Page Description Language failed to change.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-727 Printer Request

The result of a print request is a zero-page document that cannot be stored in a mailbox, and the job is canceled.

Initial Actions

Power Off/On

Procedure

Set the print option to print blank pages, and reprint to confirm if the output is not blank. Add text if the output is blank, and try printing again.

016-728 TIFF Data Unsupported RAP

The TIFF (Tagged Image File Format) data contains a tag that is not set in the Image File Expansion Library.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet iFax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-729 TIFF Data Size RAP

The specified TIFF (Tagged Image File Format) settings exceed the upper limit of the valid number of colors and pixels.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet Fax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-730 ART Command Unsupported RAP

A command not supported by the ART was detected.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-731 TIFF Data Invalid RAP

The TIFF (Tagged Image File Format) data is corrupt.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists, refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet iFax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-732 Form Not Registered RAP

The decomposer detected that the form specified in emulation is not registered.

Initial Actions

Power Off/On

Procedure

Rerun the job.

016-733 Destination Address RAP

There is an error in the destination address.

Initial Actions

Power Off/On

Procedure

Verify the address is correct.

016-734 Transmission Report RAP

There is a simple transmission report error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-735 Updating Job Template RAP

The system attempted to output the Job Template List while the Job Template was being updated.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-736 Remote Directory Lock RAP

There is a lock error in the remote directory.

Initial Actions

Power Off/On

Procedure

Ask the customer to check the directory that is locked and clear that directory.

016-737 Remote Directory Removal RAP

There is a lock removal error in the remote directory.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-741 Downloading Mode RAP

Unable to select the downloading mode.

Procedure

Enter **Tools** and enable download mode.

016-742 TBD RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-743 TBD RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-744 TBD RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-745 TBD RAP

A definition is not available at time of publication.

Procedure

A procedure is not available at time of publication.

016-746 Unsupported PDF File RAP

There was transparency or JBIG2 in a PDF version 1.3 file.

Procedure

Ask customer to print using the driver from Acrobat Reader.

016-747 Insufficient Memory

An error occurred while processing the annotation image data due to insufficient memory.

Procedure

Take one of the following actions:

- Increase the annotation image memory size
- Reduce the number of the images in [Repeat Image]
- If the problem persists, Power Off/On the machine

016-748 HDD Full RAP

HDD Full status was detected and the job was aborted when accessing a mailbox.

Initial Actions

Power Off/On

Procedure

Refer customer to check Mailbox section in User Guide to make available more HDD space.

If the problem persists check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program. If the problem persists perform GP 6 Special Boot Modes HDD Initialization.

016-749 Post Script Font RAP

The specified font is not found in the ROM or the HDD.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide index on Change Print Settings or Print Mode Settings.

016-750 Print Job RAP

The control logic detected an error in the print job ticket.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide section Change Print Settings or Print Mode Settings.

016-751 PDF RAP

One of the following errors occurred while performing PDF Bridge processing:

- Syntax error
- Use of undefined commands
- Parameter error
- Broken PDF file
- Internal error

Initial Actions

Power Off/On

Procedure

Ask customer to print using the driver from Acrobat Reader.

016-752 PDF Memory Limit RAP

Insufficient memory was detected during PDF Bridge processing.

Initial Actions

Power Off/On

Procedure

Ask customer to check print settings. When the Print mode is set to [High Quality], if the setting for [Standard] is set to [Normal], change the setting to [High Speed].

016-753 PDF Password Mismatch RAP

BSD-ON:16.1

When processing a PDF file that is protected by a password, the password in the UI panel settings and the password specified using XPL (set in the Contents Bridge Utility) do not match.

Procedure

Specify the correct password using the UI or the Contents Bridge.

016-754 PDF LZW Not Installed RAP

BSD-ON:16.1

The PDF Bridge tried to process the PDF file compressed in LZW without the [Contents Bridge Expansion Kit] installed.

Procedure

Install the [Contents Bridge Expansion Kit].

Print using the driver from Acrobat Reader.

016-755 PDF Print Prohibited RAP

BSD-ON:16.1

The system processed a print prohibited PDF file.

Procedure

Use Adobe Reader to clear the print prohibition setting and print the PDF file.

016-756 Auditron - Prohibit Service RAP

The service is prohibited.

Procedure

Ask the key operator or system or account administrator to enable usage of the machine.

016-757 Auditron - Invalid User RAP

The account is not registered.

Procedure

Ask key operator or system or account administrator to set up the account or check the users password.

016-758 Auditron - Disabled Function RAP

An illegal account was detected.

Procedure

Ask the key operator or system or account administrator to add the account rights.

016-759 Auditron - Reached Limit RAP

The number of pages reached the maximum number of pages for this service.

Procedure

Ask the key operator or system or account administrator to raise the page limit.

016-760 PostScript Decompose RAP

An error occurred in PostScript Decompose processing.

Procedure

Resend the job. If the problem persists, refer customer to User Guide headings:

- PostScript Memory
- CentreWare Internet Services properties
- Memory Settings
- Allocate Memory
- When printing fails
- Setting Format of config.txt

016-761 FIFO Empty RAP

There is a FIFO (first in first out) image enlargement error.

Procedure

Print in Fast Print mode.

Set the **[Print Mode]** to **[Normal]** and rerun. If the problem continues, set **[Page Print Mode]** to **[On]**.

016-762 Print Language RAP

The specified print language is not installed.

Procedure

In **[Specify Print Mode]** under **[Port Settings]**, specify another print language.

016-764 SMTP Server Connection RAP

SMTP server response code errors.

Procedure

Repeat the operation.

016-765 SMTP Server HDD Full RAP

Unable to send e-mail due to the Hard Drive on the SMTP server is full.

Procedure

Retrieve E-mail in the Server HDD. Reconsider the Server capacity.

016-766 SMTP Server File System RAP

SMTP server response code error.

Procedure

Contact the SMTP Server Administrator and ask the administrator to reconsider the Server capacity limit.

016-767 Invalid E-mail Address RAP

Unable to send e-mail due to an incorrect address.

Procedure

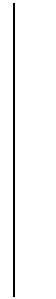
Check the destination of the E-mail.

016-768 Invalid Sender Address RAP

Unable to connect to the SMTP server due to the machines incorrect mail address.

Procedure

Check whether the E-mail address is valid within the domain and check the setting of the E-mail address of the machine.



016-769 SMTP Server Unsupported DSN RAP

SMTP server does not support conformation of mail distribution (DSN)

Procedure

Enable the most appropriate ESMTP function in the SMTP Server. Or, send the E-mail with sent confirmation turned off.

A

016-770 FAX Function Cancelled RAP

The direct fax function is disabled.

Procedure

Check with the System Administrator whether the function is enabled.

A

A

A

016-771 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-772 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

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|

|

A B

A B

016-773 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

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A B

A B

016-774 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-775 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-776 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-777 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-778 JBIG Parameter RAP

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-779 Scanned Image Conversion Error RAP

An error occurred due to causes other than HDD access during scanned image conversion processing in I-Formatted.

Procedure

Repeat the operation.

016-780 Attached Document TIFF RAP

There is a TIFF (Tagged Image File Format) error in the attached document.

Procedure

Ask customer to cancel and rerun the job.

016-781 Scan Server Connect Error RAP

This fault can occur in the following circumstances:.

- The machine was unable to establish a connection to the Scan Server during the Network Scanning file transfer operation.
- The machine was either unable to establish a connection to the Email (SMTP) server or was unable to authenticate (log in) to the Email server during the Scan to Email or Internet Fax file transfer operation.

Procedure

The customer can print to the machine through the Ethernet port on the machine.

Y N

Confirm that the Ethernet network drop cable is securely connected to the machine and the wall port. The recessed green LED next to the Ethernet port on the machine should be lit if the machine is connected to a live Ethernet drop. **The green LED is lit.**

Y N

Connect another Ethernet straight through cable between the machine and the wall port and have the customer confirm that the wall port is live.
If the LED is still off, replace the Printer PWB in the machine.

Verify that the machine has the correct TCP/IP settings with the customer. The cause of the printing problem is likely to be the cause for the Scanning failure as well.

For Scan to Email or Internet Fax failures, perform the following:

1. Print a Print Mode System Settings list report.
2. Check the SMB section on page 5 of the report for the following:
 - The Host Name setting must have no spaces in the name and no periods (.), slashes (/ or \) or star symbols (*) in the name. If the Host Name has a space in it or has any of these characters, have the customer change the Host Name to eliminate these characters. If the problem continues, proceed to step 3.
3. Have the customer confirm that the **Email / Internet Fax Settings** section on page 5 of the report contain the correct settings for their network:
 - The Send Email setting must be set to Enabled.
 - The Server Name / IP Address setting under the sub-header SMTP Server must either be set with the IP address or Host Name of the customer's SMTP E-mail server.

NOTE: *If the Host Name of the SMTP Server is entered into the machine, then the machine must be configured with the customer's DNS settings (listed on page 3 of the report).*

- The Machine's E-mail Address setting must contain an email address with the customer's domain name and the address must be entered in the proper syntax (i.e.: wc7132@company.com).
- The E-mail Send Authentication setting will be set in one of the following ways:
 - Set to OFF if the customer's SMTP E-mail server does not require the machine to authenticate or log in prior to sending the e-mail message.
 - Set to SMTP AUTH if the customer's SMTP E-mail server requires that the machine authenticate or log in to the server using an SMTP log in name and password prior to sending the e-mail message.

- If the E-mail Send Authentication setting is set to SMTP AUTH, then an additional setting labeled SMTP AUTH Login Name will appear on page 5 of the report along with the Log in name that the machine will use. The customer must verify the Log in name listed on the report. A Password may also have been entered into the machine, however, it will not be listed on the report.
 - Set to POP3 AUTH if the customer wants the machine to authenticate or log in to their POP3 server using a POP3 log in name and password prior to sending the e-mail message.
- If the **E-mail Send Authentication** setting is set to **POP3 AUTH**, then have the customer verify the **Login Name** that is listed under the header **POP3 Server** on page 5 on the report. A POP3 Password may also have been entered into the machine, however, it will not be listed on the report.

The customer confirmed that the Email / Internet Fax settings are correct.

Y N

If the customer is not available or has confirmed that the settings are not correct, then they must confirm that the settings are correct or they must enter the correct settings into the machine before any further troubleshooting can be done.

Escalate to your next level of support.

For Network Scanning failures, perform the following:

Use the procedure in GP 14 to configure your PWS as a "scan server" and then use the Network Scanning feature on the machine to scan a document into your PWS.

The fault 16-781 is displayed when scanning using GP 14.

Y N

The cause for the fault is either on the customer's network or with the settings in the machine. Press the [All Services] button on the machine Control Panel, then select the [Network Scanning] button on the Touch screen. **There is at least one Template listed.**

Y N

Have the customer demonstrate how they are scanning and how they get the fault to occur. **The customer is selecting the [Scan to FTP/SMB] button after pressing the [All Services] button.**

Y N

Have the customer contact the Customer Support Center for help with properly configuring their machine for Network Scanning.

The Scan to FTP/SMB feature allows the customer to manually enter the destination server settings at the machine UI prior to scanning a document rather than using a previously created Template. If a fault is occurring when they use this feature, then they are either entering the wrong IP address or Host Name of their destination server or the server is not capable of accepting a connection from the machine. Refer the customer to the WC7132 User Guide for details on using this feature and to ensure that they are entering their settings correctly.

Select each one of the listed Templates and press the <Start> button to determine if the fault only occurs when certain Templates are used.

NOTE: *Templates that prompt for a password were created as "Private" Templates, which require that a password be entered at the machine UI before the scanning job will start.*

The fault occurs with at least one of the listed Templates.

Y N

Have the customer demonstrate how they get the fault to occur.

Templates are created using one of two methods: Templates with the @ sign to the left of their name were created using the machine's CentreWare Internet Services web interface; Templates that have no @ sign in their name were created using the Smart Send software. The next step is to determine if the Templates that create the fault are of the same type. **The fault occurs when selecting Templates with the @ symbol to the left of the Template name.**

Y N

Templates that do not have the @ sign in their name were created using the Smart Send software. Escalate to your next level of support for help with this type of Template.

The top of the machine's Touch screen will display previously programmed settings for each highlighted Template including an IP address or Host name followed by a colon (:) and either number 21 or 139. Highlight one of the Templates that generate the fault and look at the "Job Template" settings associated with the Template. **The "Job Template" setting contains an IP address or Host name followed by:21 or:139.**

Y N

Refer the customer to the section titled "CentreWare Internet Services" in the WC7132 User Guide for information on properly configuring the machine's Repository settings or have the customer contact the Customer Support Center to get help.

Perform each of the following steps in order:

1. Print a Print Mode System Settings list report.
2. Check the SMB section on page 5 of the report for the following:
 - The Host Name setting must have no spaces in the name and no periods (.), slashes (/ or \) or star symbols (*) in the name. If the Host Name has a space in it or has any of these symbols, have the customer change the Host Name to eliminate these items.
3. Have the customer confirm that the Default File Destination section and all Alternate File Destination sections listed on page 5 of the report contain the correct settings for their network, including:
 - The Protocol setting must be set to either FTP or SMB.
 - The Server setting must contain either the IP address or SMB Host Name of the destination Scan server.

NOTE: If the Host Name of the Scan server is entered into the machine, then the machine must be configured with the customer's DNS settings (listed on page 3 of the report).

The customer confirmed that the File Destination settings are correct.

Y N

The customer must enter the correct File Destination settings into the machine using the machine's Centroware Internet Services Web Interface. Refer the customer to the section titled "CentreWare Internet Services" in the WC7132 User Guide for details.

Have the customer create a new Template and associate the Template with the Default File Destination. **The same fault is displayed when the new Template is used.**

Y N

The same fault is displayed when the new Template is used.

Escalate to your next level of support.

There is a machine problem. Perform the following:

- Reload the system software
- Refer to GP 13 to delete all Templates and Repository settings. Then, refer the customer to the section titled "CentreWare Internet Services" in the WC7132 User Guide for details on how to recreate the Templates and re-enter the Repository settings.
- Re initialize the NVM by selecting the SYS-SYSTEM and SYS-USER NVM platforms.

016-782 Scan Server Login Error RAP

The machine was unable to log in successfully to the Scan Server during the Network Scanning file transfer operation.

Procedure

The customer can print to the machine through the Ethernet port on the machine.

Y N

Confirm that the Ethernet network drop cable is securely connected to the machine and the wall port. The recessed green LED next to the Ethernet port on the machine should be lit if the machine is connected to a live Ethernet drop. **The green LED is lit.**

Y N

Connect another Ethernet straight through cable between the machine and the wall port and have the customer confirm that the wall port is live.

If the port is live, connect the CSE PWS to the Ethernet port using an Ethernet cross-over cable to see if the green LED will light up with the machine and PWS fully booted up.

If the LED is still off, replace the Printer PWB in the machine.

Verify that the machine has the correct TCP/IP settings with the customer. The cause of the printing problem is likely to be the cause for the Scanning failure as well.

Press the [All Services] button on the machine Control Panel, then select the [Network Scanning] button on the Touch screen. **There is at least one Template listed.**

Y N

Have the customer demonstrate how they are scanning and how they get the fault to occur. **The customer is selecting the [Scan to FTP/SMB] button after pressing the [All Services] button.**

Y N

Have the customer contact the Customer Support Center for help with properly configuring their machine for Network Scanning.

The Scan to FTP/SMB feature allows the customer to manually enter the destination server settings at the machine UI prior to scanning a document rather than using a previously created Template. If a fault is occurring when they use this feature, then they are either entering the wrong IP address or Host Name of their destination server or the server is not capable of accepting a connection from the machine. Refer the customer to the WC7132 User Guide for details on using this feature and to ensure that they are entering their settings correctly.

Disconnect the Ethernet network cable from the machine. Select one of the Templates and scan a document with the network cable disconnected. **The same fault (16-782) is displayed.**

Y N

Use the procedure in GP 14 to configure your PWS as a "scan server" and then use the Network Scanning feature on the machine to scan a document into your PWS. **The fault 16-782 is displayed when scanning to your PWS.**

Y N

The cause for the customer's problem is either on the customer's network or with the settings in the machine.

Reconnect the customer's network cable to the machine. Select each one of the listed Templates and press the [Start] button.

NOTE: Templates that prompt for a password were created as "Private" Templates, which require that a password be entered at the machine UI before the scanning job will start.

The fault occurs with at least one of the listed Templates.

Y N

Have the customer demonstrate how they get the fault to occur.

Templates are created using one of two methods: Templates with the @ sign to the left of their name were created using the machine's CentreWare Internet Services web interface; Templates that have no @ sign in their name were created using the Smart Send software. The next step is to determine if the Templates that create the fault are of the same type. **The fault occurs when selecting Templates with the @ symbol to the left of the Template name.**

Y N

Templates that do not have the @ sign in their name were created using the Smart Send software. Escalate to your next level of support for help with this type of Template.

Highlight one of the Templates that generate the fault and select the **Output Format** tab on the Touch screen. This will display the **Log In** name associated with the Template as well as a **Password** field that will either have a string of stars in it that represent the password or will show [Not Set].

Select the [Log In] button, remove the existing Log In name, type in the name anonymous and select the [Save] button. Then select the [Password] button, remove all stars so that the password is blank and select the [Save] button. Press the <Start> button to attempt a Network Scanning job. **The job is successfully transferred to the server.**

Y N

A person with knowledge of the customer's network is available.

Y N

Escalate to your next level of support.

Press the <Clear All> button to restore the original Log In name and Password. Highlight the Template and select the Output Format tab on the Touch screen. Have the network person type in the correct Log In name and either type in the correct Password or remove the Password that is displayed. Then press the <Start> button to attempt a Network Scanning job. **The job is successfully transferred to the server.**

Y N

Escalate to you next level of support.

The Log In Name and/or Password that are set in the selected Template are incorrect. Refer the customer to the **WC7132 User Guide** for details on editing the Repository settings of the selected Template to enter the correct Log In Name and/or Password.

The Log In Name and/or Password that are set in the selected Template are incorrect. Refer the customer to the WC7132 User Guide for details on editing the Repository settings of the selected Template to enter the correct Log In Name and/or Password.

If the 16-782 fault does not occur when disconnecting the customer's network cable and attempting a scan job but the 16-782 fault does occur when the machine is connected to the PWS, then there is likely a set up problem when using the GP 14 procedure. Escalate to your next level of support.

There is a machine problem. Perform the following steps, in order:

- Reload the system software
- Refer to GP 13 to delete all Templates and Repository settings. Then, refer the customer to the section titled "CentreWare Internet Services" in the WC7132 User Guide for details on how to recreate the Templates and re-enter the Repository settings.
- Re initialize the NVM by selecting the SYS-SYSTEM and SYS-USER NVM platforms.

016-783 Invalid Server Path RAP

The specified path cannot be found during Scan to Server file transfer.

Procedure

Check the server path name specified in the job template.

If this code appears while using CentreWare Scan Service, refer to the 'CentreWare Scan Service Installation Guide'.

016-784 Server Write Error RAP

The Server cannot be written to during Scan to Server file transfer.

Procedure

Check that "Write Authorization" is established in the Server directory.

Free up space on the Server disk.

If this code appears while using CentreWare Scan Service, refer to the 'CentreWare Scan Service Installation Guide'.

016-785 Server HD Full RAP

The Server File System became full during Scan to Server file transfer.

Procedure

Check that "Write Authorization" is established in the Server directory.

Remove unnecessary data from the server hard drive to free up space on the Server disk.

If this code appears while using CentreWare Scan Service, refer to the 'CentreWare Scan Service Installation Guide'.

016-786 HD Full-Scan Write Error RAP

A temporary file in Scan to Server file transfer cannot be written to the internal HDD.

Procedure

The HDD may be temporarily full with print jobs. Wait and retry.

Format the HDD.

Replace the HDD (PL 11.2).

016-787 Invalid Server IP ADD RAP

Server IP address was incorrect due to a Job Template syntax error in Scan to Server file transfer.

Procedure

Check the contents of the attributes (string Repository Name) in the Job Template file.

016-788 Retrieve to Browser RAP

Failed to retrieve a file from the Web browser.

Procedure

Take one of the following actions, and try again.

- Reload the browser page.
- Restart the browser.
- Power Off/On.

016-789 HD Full - Job Memory RAP

During iFax or sending mail designated for forwarding, the send module (Redirector) attempted to send data exceeding the System Data [Upper Limit of Data Size for Scan to E-mail] to the internet.

Procedure

Decrease the send parameter for resolution (send image quality) and resend.

Reduce the image using the send parameter and resend (e.g. A3 to A4).

Change the [Upper Limit of Data Size] setting in the Specifications Settings Screen on the UI Panel (default 2MB recommended).

016-790 Stapling Cancelled RAP

Stapling is cancelled.

Procedure

No action required. Stapling is cancelled by the customer.

016-791 File Retrieve RAP

Failed to access the forwarding destination or the job template save location with [Scan to FTP/SMB] or [Job Template].

Procedure

Check whether you can access the server specified by the forwarding destination.

016-792 Specified Job RAP

Failed to get the job history report specified in [Job Counter Report].

Procedure

The specified job history does not exist.

016-793 MF I/O HD Full RAP

Free space is insufficient on the hard disk.

Procedure

Either remove unnecessary data from the hard disk to increase free disk space, or initialize the hard disk.

016-798 No Trust Marking Option RAP

Unable to print the document because a HDD is disconnected.

Procedure

Install/reattach the HDD (PL 11.2) and print again.

016-799 PLW Print Instruction RAP

An invalid print parameter is included.

Procedure

Check the print data and options, and print again.

016-981 HDD access error RAP

HDD Full was detected because Mailbox Scan, Fax Scan, Secure Print, Delay Print, Sample Print, or Scheduled Print was specified when the HDD partition/ide0c capacity is small.

Print Job only prints the jobs stored in the HD, so this Fault does not occur for [Job Fail 016-748].

Procedure

1. Split the job into pages in order to prevent FULL state. Reduce the resolution if possible.
2. Delete documents that are no longer needed, such as: Mailbox documents, FAX Send Wait documents, Secure Print documents and Delayed Print documents. Make sure that there is space in the HDD before re-scanning and re-printing.

When the procedures above did not work, expand the HDD partition size for the corresponding service that needs it.

016-982 HDD access error 2 RAP

HDD was determined to be Full due to collate, stored or interrupted jobs.

Procedure

Process or delete the jobs (documents) stored in the same HDD partition, and repeat the operation.

If the above procedures do not resolve the problem, expand the HDD partition size of the relevant service.

016-983 Log Image Storage Area on Disk Full RAP

This is prepared for the user to interfere and cancel a copy/scan job when the log image storage area on the disk becomes full with the level of ensuring creation set to [High].

Procedure

Press the Cancel Job button to cancel the job.

Rerun the job.

If the situation is the same despite some re-attempts, delete unnecessary documents saved in the device or change the level of ensuring creation (to Low). However, if the level is set to Low, log image creation cannot be ensured.

016-985 Data size overflow (Scan to E-mail) RAP

Due to data size exceeding the upper limit for Scan to E-mail, data could not be sent.

Procedure

Take one of the following actions, and try again:

- Reduce the number of document pages.
- Reduce the resolution in [Scan Resolution].
- Decrease the ratio in [Reduce/Enlarge].
- For multivalued scanning, increase the ratio in [Image Compression].
- Ask the System Administrator to increase the value for [Maximum E-mail Size].

018-505 SMB-DOS protocol error RAP

Unable to authenticate due to an incorrect user name or password.SMB

Procedure

Check the user name and password with the system administrator.

Note: The password cannot be verified. If you have forgotten the password, reset the password.

018-543 Shared name error in SMB server RAP

A shared name on the SMB scan server is wrong.

Procedure

Check what the specified shared name is and enter the correct one.

018-547 Number restriction over of SMB scan users RAP

The limited number of SMB scan users is exceeded.

Procedure

1. Check what the limited number of users that can connect to a shared folder is.
2. Check that the number of users that use the server simultaneously is not over max.

018-595 LDAP protocol error RAP

Attestation Server detected a duplicated user. (LDAP)

Procedure

Correct the user entered in database on the LDAP server so that it does not have the same IC card info as any other user.

018-701 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-702 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-703 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-704 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-705 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-706 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-707 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-708 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-710 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-711 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-712 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-713 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-714 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-716 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-717 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-718 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-719 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-720 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-721 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are present. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-732 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-733 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-734 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-735 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-736 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-748 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-749 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-750 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-751 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-752 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-753 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-754 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-764 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-765 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-766 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-767 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-768 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-769 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-770 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-771 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-780 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-781 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-782 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-783 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-784 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-785 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-786 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-787 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-788 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-789 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-790 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-791 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-792 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-793 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-794 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-795 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-796 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-797 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

021-360 EP Accessory Failure RAP

An error occurred in the connection to the EP accessory. The accessory that was supposed to be installed is not present.

Procedure

Check the connections and P/J's on the ESS PWB (PL 11.2) and check that any accessory PWB's are installed securely.

If the problem persists, reload Software (ADJ 9.3.1).

021-361 EP Accessory Kind Configuration Error RAP

The System Data 850-007 is set to 0 (Off) during connection to conventional countdown EP related accessories.

Procedure

Check that the System Data 850-007 is set correctly.

If it is set correctly, perform the following:

Reload Software (ADJ 9.3.1).

If the problem persists, pull out and insert the EPSV board and check the P/J's.

If the problem persists, replace the ESS PWB (PL 11.2).

021-731 EP Accessory - Function Disabled RAP

When MDSS is connected and color copying is prohibited using the Coin Kit, a color copy job was requested.

Procedure

Check the settings.

021-732 EP Accessory - Service Canceled By Disable RAP

With an accessory installed, there was a missing card, insufficient fee paid or a shortage of card value.

Initial Actions

Power OFF/ON

Procedure

Insert a Xerox card, copy card or cash into the accessory and ensure that there are sufficient fees or card value.

021-733 EP Accessory - Service Canceled By Color Mode Restriction RAP

With an accessory installed, there was Color Mode Restriction or the upper limit was reached.

Initial Actions

Power OFF/ON

Procedure

Operate the Color Mode Restriction Key SW to enable Color mode. Or, replace the card with another card that does not reach the upper limit in Color mode.

021-750 Used Parts Request Failure (EP-SV) RAP

When the Used Parts Collection Order was processed, an error was notified by the EP-SV.

Initial Actions

Power OFF/ON

Procedure

Contact the Service Center.

021-751 Maintenance Request Failure (EP-SV) RAP

When an Inspection/Repair/Preliminary Diagnostic Request was processed, an error was notified by the EP-SV.

Initial Actions

Power OFF/ON

Procedure

Check that the telephone line is connected. Wait and send the request again.

021-770 Used Parts Request Failure (EP-DX) RAP

The Used Parts Collection Order could not be processed due to a busy line.

Initial Actions

Power OFF/ON

Procedure

Contact the call center.

021-771 Maintenance Request Failure (EP-DX) RAP

The Inspection/Repair/Preliminary Diagnostics Request could not be processed due to a busy line.

Initial Actions

Power OFF/ON

Procedure

Check that the telephone line is connected. Wait and send the request again.

021-772 EP-DX - Installation/Removal Failure RAP

Installation and removal could not be executed due to a busy line.

Initial Actions

Power OFF/ON

Procedure

Ask for the connection to be made idle.

021-941 EP - Scan Service Paused By Disable RAP

With an accessory installed, there was a missing card, insufficient fee paid or a shortage of card value.

Initial Actions

Power OFF/ON

Procedure

Insert a Xerox card, copy card or cash into the accessory and ensure that there are sufficient fees or card value.

021-942 EP - Scan Service Paused By Color Mode RAP

With an accessory installed, there was Color Mode Restriction or the upper limit was reached.

Initial Actions

Power OFF/ON

Procedure

Operate the Color Mode Restriction Key SW to enable Color mode. Or, replace the card with another card that does not reach the upper limit in Color mode.

021-943 EP - Print Service Paused By Disable RAP

With an accessory installed, there was a missing card, insufficient fee paid or a shortage of card value.

Initial Actions

Power OFF/ON

Procedure

Insert a Xerox card, copy card or cash into the accessory and ensure that there are sufficient fees or card value.

021-944 EP - Print Service Paused By Color Mode RAP

With an accessory installed, there was Color Mode Restriction or the upper limit was reached.

Initial Actions

Power OFF/ON

Procedure

Operate the Color Mode Restriction Key SW to enable Color mode. Or, replace the card with another card that does not reach the upper limit in Color mode.

021-945 EP - Service Paused By Disable RAP

With an accessory installed, there was a missing card, insufficient fee paid or a shortage of card value.

Initial Actions

Power OFF/ON

Procedure

Insert a Xerox card, copy card or cash into the accessory and ensure that there are sufficient fees or card value.

021-946 EP - Service Paused By Color Mode RAP

With an accessory installed, there was Color Mode Restriction or the upper limit was reached.

Initial Actions

Power OFF/ON

Procedure

Operate the Color Mode Restriction Key SW to enable Color mode. Or, replace the card with another card that does not reach the upper limit in Color mode.

024-340 IOT-ESS Communication 1 RAP

BSD-ON:3.1/16.1

An abnormal parameter is set for the send function.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

024-341 IOT-ESS Communication 2 RAP

BSD-ON:3.1/16.1

A transmission failure occurred, the Sequencing number of the sent Message Packet is incorrect.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the MCU PWB (PL 11.1).

024-342 IOT-ESS Communication 3 RAP

BSD-ON:3.1

A transmission failure occurred, the Packet number of the sent Message Packet is incorrect.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-343 IOT-ESS Communication 4 RAP

BSD-ON:3.1

A transmission failure occurred, the Message Length of the sent Message Packet is incorrect.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-345 IOT-ESS Communication 5 RAP

BSD-ON:3.1

A transmission failure occurred when the Check Code of the sent Message Packet is incorrect.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-346 IOT-ESS Communication 6 RAP

BSD-ON:3.1

A transmission failure occurred, a parity error was detected by hardware in the IOT.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-347 IOT-ESS Communication 7 RAP

BSD-ON:3.1/16.1

The ESS PWB detected a communication error between the IOT and the ESS.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-348 IOT-ESS Communication 8 RAP

BSD-ON:3.1/16.1

The ESS PWB detected a communication error between the IOT and the ESS.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-349 IOT-ESS Communication 9 RAP

BSD-ON:3.1

A transmission failure occurred as the acknowledgement could not be received after 2 resend attempts. (After header recognition, receive interruption was detected by the IOT.)

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-350 IOT-ESS Communication 10 RAP

BSD-ON:3.1

The NAK that notifies of the occurrence of a transmission failure is received. (The Sequencing number of the received Message Packet is incorrect.)

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-351 IOT-ESS Communication 11 RAP

BSD-ON:3.1

The NAK that notifies of the occurrence of a transmission failure is received. (The Packet number of the received Message Packet is incorrect.)

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-354 IOT-ESS Communication 14 RAP

BSD-ON:3.1

The NAK that notifies of the occurrence of a transmission failure is received. (A parity error was detected by hardware of the UART.)

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-356 IOT-ESS Communication 16 RAP

BSD-ON:3.1/16.1

A transmission failure is received, an overrun error was detected by hardware of the UART.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-360 IOT-ESS Initialization RAP

BSD-ON:

The IOT and ESS failed to initialize

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-362 Page Sync Start RAP

BSD-ON:3.1/16.1

During IOT output, before the output data was written to FIFO Full (first in first out), Page Sync activated.

Initial Actions

Power Off/On

Procedure

Electrical noise on the power circuit for the machine may be excessive. Verify the ground connections on the ESS Chassis.

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-363 Page Sync Stop RAP

BSD-ON:3.1/16.1

During IOT output, before output in the specified size, Page Sync was disabled.

Initial Actions

Move away machines that are noisy.

Procedure

Electrical noise on the power circuit for the machine may be excessive. Verify the ground connections on the ESS Chassis.

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists reload Software (ADJ 9.3.1).

024-364 DMA Transfer RAP

Reduction/enlargement failed to access the data in Direct Memory Access.

Procedure

NOTE: *There is a high probability that the cause is faulty firmware or data corruption (DIMM or HDD).*

Reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists, replace the DIMM (PL 11.2).

If the problem persists, replace the HDD (PL 11.2).

024-367 Decompression Synchronization RAP

BSD-ON:3.1/16.1

Incorrect line synchronization was detected.

Initial Actions

Power Off/On

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the DIMM (PL 11.2).

If the problem persists, replace the HDD (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

024-368 PCI RAP

BSD-ON:3.1/16.1

PCI access error occurred due to a faulty PCI bus.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

024-370 Marker Code Detection RAP

BSD-ON:3.1/16.1

During Enlarge, when the file was enlarged only by the specified size, the end code (FF02) cannot be found in the compressed data.

Procedure

The problem occurs only for specific documents.

Y N

Perform following as required:

1. Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.
2. Replace the DIMM (PL 11.2).
3. Perform Hard Disk Diagnostic Program. If the problem persists, replace the HDD (PL 11.2).
4. Replace the ESS PWB (PL 11.2).

Perform following as required:

1. Reload Software (ADJ 9.3.1).
2. Change the Print mode (Normal/High Quality/High Resolution).
3. Change the port settings or the Receive Buffer size.)

024-371 IOT-ESS Communication 21 RAP

BSD-ON:3.1/16.1

When the Controller and IOT are turned On, a response from the IOT to a request to establish communications was not detected within the specified time.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

If the problem persists, replace the MCU PWB (PL 11.1).

024-372 IOT-ESS Communication 22 RAP

BSD-ON:3.1/16.1

An illegal instruction for IOT Port number or time-out timing or the pointer or transfer size was detected.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the MCU PWB (PL 11.1) If the problem persists, replace the ESS PWB (PL 11.2).

024-373 IOT-ESS Communication 23 RAP

BSD-ON:3.1/16.1

In response to a message packet from the Controller, the acknowledgement packet was not received within the specified time even after the specified number of attempts.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

If the problem persists, replace the MCU PWB (PL 11.1) If the problem persists, replace the ESS PWB (PL 11.2).

024-375 IOT-ESS Communication 24 RAP

BSD-ON:3.1/16.1

An illegal instruction for IOT Port number or time-out timing or for the pointer or for transfer size was detected.

Procedure

Check that P/Js 402 on the MCU PWB (PL 11.1) and P/J 310 on the ESS PWB (PL 11.2) are securely connected.

If the problem persists, reload Software (ADJ 9.3.1).

024-600 Billing Master Counter RAP

BSD-ON:

There is a billing master counter error RAP

Procedure

Perform GP 4 Replacing Billing PWBs.

024-601 Billing Backup Counter 1 RAP

BSD-ON:

There is a billing backup counter error RAP

Procedure

Perform GP 4 Replacing Billing PWBs.

024-602 Billing Backup Counter 2 RAP

BSD-ON:

There is a billing backup counter error RAP

Procedure

Perform GP 4 Replacing Billing PWBs.

024-603 Software Key Master Counter RAP

BSD-ON:

There is a software key master counter error RAP

Procedure

A procedure is not available at time of publication.

024-604 Software Key Backup Counter 1 RAP

BSD-ON:

There is a software key backup counter 1 error RAP

Procedure

A procedure is not available at time of publication.

024-605 Software Key Backup Counter 2 RAP

BSD-ON:

There is a software key backup counter 2 error RAP

Procedure

A procedure is not available at time of publication.

024-747 Print Instruction RAP

Error in the combination of print parameters (stored file size, paper size, source paper tray, duplexing, output destination).

Procedure

The center tray will not receive output, and output goes to Finisher (if Finisher is available).

Y N

Go to Service Call Procedures.

Key operator is available to change settings.

Y N

NOTE: Service procedure to restore output capability to center tray on Top Cover (PL 10.1).

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics).
 - b. Access Diagnostic Routines (Accessing Diagnostic routines).
2. Select **NVM Read/Write**.
3. Enter Chain-Link 742-261
4. Select **Confirm**.

NOTE: Display now shows Current Value (Zero)

5. To enter new value (one), press 1 on the numeric keypad, then Select **Save**

NOTE: The Current Value now reads 1.

6. Select **Close**.
7. Select **Close** again. Power off and on if the setting is not active.

NOTE: Customer procedure to restore output capability to center tray on Top Cover (PL 10.1)

1. Press the **Log In / Out** Button on the Control Panel and enter (five one's) 11111 using the number keypad and select **Confirm**.
2. Select **System Settings**.
3. Select **System Settings** again.
4. Select **Common Settings**.
5. Select **Other Settings**.
6. Select **Change Setting**.
7. Select **Offset Stacking Module**.
8. Select **Save**.
9. Select **Close**.
10. Select **Close** again.
11. Select **Close** again.
12. Select **Exit**. Power off and on if the setting is not active.

024-910 Tray 1 size mismatch RAP

BSD-ON:8.7

After feeding from Tray 1, the lengths detected by the Registration Sensor and the Tray 1 Size Switch did not match.

Initial Actions

- Reload the tray.

Procedure

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N

Clear away the foreign substances and paper powder. Correct the distortion.

Feed paper from another tray. **The problem occurs when paper is fed from another tray.**

Y N

Check the guide. **The guide is set correctly.**

Y N

Set the guide correctly.

Check the operation of the Guide Actuator. **The Guide Actuator works.**

Y N

Set the guide correctly.

Check the installation of the Tray 1 Paper Size Switch. **The Tray 1 Paper Size Switch is installed correctly.**

Y N

Install the Tray 1 Paper Size Switch (PL 2.1) correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N

Check the connection of P/J106. **P/J106 is connected correctly.**

Y N

Connect P/J106.

Check the wire between J106 and J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wire between J106 and J405 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P405A-8 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 11.1).

A

B

Measure the voltage between the MCU PWB P405A-7 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1).

A B

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024-911 Tray 2 size mismatch RAP

BSD-ON:8.7

After feeding from Tray 2, the lengths detected by the Registration Sensor and the Tray 2 Size Switch did not match.

Initial Actions

- Reload the tray.

Procedure

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N

Clear away the foreign substances and paper powder. Correct the distortion.

Feed paper from another tray. **The problem occurs when paper is fed from another tray.**

Y N

Check the guide. **The guide is set correctly.**

Y N

Set the guide correctly.

Check the operation of the Guide Actuator. **The Guide Actuator works.**

Y N

Set the guide correctly.

Check the installation of the Tray 2 Paper Size Switch. **The Tray 2 Paper Size Switch is installed correctly.**

Y N

Install the Tray 2 Paper Size Switch (PL 14.1) correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N

Check the connection of P/J106. **P/J106 is connected correctly.**

Y N

Connect P/J106.

Check the wire between J106 and J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wire between J104 and J403 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P405A-8 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 11.1).

A B

Measure the voltage between the MCU PWB P405A-7 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1).

A B

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024-912 Tray 3 size mismatch RAP

BSD-ON:8.7

After feeding from Tray 3, the lengths detected by the Registration Sensor and the Tray 3 Size Switch did not match.

Initial Actions

- Reload the tray.

Procedure

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N

Clear away the foreign substances and paper powder. Correct the distortion. Clear away the foreign substances and paper powder. Correct the distortion.

Feed paper from another tray. **The problem occurs when paper is fed from another tray.**

Y N

Check the guide. **The guide is set correctly.**

Y N

Set the guide correctly.

Check the operation of the Guide Actuator. **The Guide Actuator works.**

Y N

Set the guide correctly.

Check the installation of the Tray 3 Paper Size Switch. **The Tray 3 Paper Size Switch is installed correctly.**

Y N

Install the Tray 3 Paper Size Switch (PL 14.1) correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N

Check the connection of P/J106. **P/J106 is connected correctly.**

Y N

Connect P/J106.

Check the wire between J106 and J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wire between J106 and J405 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P405A-8 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 11.1).

A

B

Measure the voltage between the MCU PWB P405A7 (+) and GND (-) (BSD 8.7 Flag 1).

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1).

A B

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024-916 Mix Full Stack RAP

BSD-ON:12.8

The output paper stacked on the Finisher Stacker Tray reaches capacity (for the same paper size only).

Initial Actions

- Power Off/On

Procedure

Check the tray raise/lower mechanism for foreign substances and distortion. **No distortion or foreign substances are found in the tray raise/lower mechanism.**

Y N

Clear away the foreign substances. Correct the distortion.

Execute Component Control [012-267 Stack Height Sensor]. Actuate the Stack Height Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8815, P/J8825 and P/J8850. **P/J8815, P/J8825 and P/J8850 are connected correctly.**

Y N

Connect P/J8815, P/J8825 and P/J8850.

Check the wire between J8815 and J8850 for an open circuit or a short circuit (BSD 12.8 Flag 1/Flag 2). **The wire between J8815 and J8850 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850B-6 (+) and GND (-) (BSD 12.8 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850B-5 (+) and GND (-) (BSD 12.8 Flag 2).

Actuate the Stack Height Sensor with paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 17.5).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor starts up.**

Y N

Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N

Connect P/J8847 and P/J8827.

A B

Check the wire between J8847 and P8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and P8827 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Motor (PL 17.10) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

A B

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024-917 Stacker Tray Staple Set Over Count RAP

BSD-ON:12.9

The number of stapled copies exceeded the capacity of the Stacker Tray.

Initial Actions

- Power Off/On

Procedure

Check the connection of each Finisher PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **[024-917] reoccurs.**

Y N
| Return to Service Call Procedures.

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

024-919 Face UP Tray Close RAP

When output was sent to the Face Up Tray, the Face Up Tray was detected as closed.

Initial Actions

Open the Face Up Tray.

Procedure

Check that the P/Js on the MCU PWB (PL 11.1) are securely connected.

024-920 Face Down Tray 1 Paper Full RAP

BSD-ON:

There is no description available at time of publication.

Procedure

There is no procedure available at time of publication.

024-922 Face Down Tray 1 Paper Full RAP

BSD-ON:

There is no description available at time of publication.

Procedure

There is no procedure available at time of publication.

024-923 Y Toner Empty

Y Toner Cartridge is Empty.

Initial Actions

Check the following:

- Replace the Y Toner Cartridge if empty (PL 5.2)
- Ensure that the Y Toner Cartridge is inserted properly
- For Y Toner spills in the machine

Procedure

Check for Image Quality Defects. **An Image Quality Defect is present.**

Y N
| Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.

The Defect is Low Image Density or Uneven Density.

Y N
| **The Defect is Background.**
| **Y N**
| | Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.
| | Go to IQ6 and troubleshoot IOT Background.

Go to IQ3 and troubleshoot Low Image Density or Uneven Density.

024-924 M Toner Empty

M Toner Cartridge is Empty.

Initial Actions

Check the following:

- Replace the M Toner Cartridge if empty (PL 5.2)
- Ensure that the M Toner Cartridge is inserted properly
- For M Toner spills in the machine

Procedure

Check for Image Quality Defects. **An Image Quality Defect is present.**

Y N
| Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.

The Defect is Low Image Density or Uneven Density.

Y N
| **The Defect is Background.**
| **Y N**
| | Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.
| | Go to IQ6 and troubleshoot IOT Background.

Go to IQ3 and troubleshoot Low Image Density or Uneven Density.

024-925 C Toner Empty

C Toner Cartridge is Empty.

Initial Actions

Check the following:

- Replace the C Toner Cartridge if empty (PL 5.2)
- Ensure that the C Toner Cartridge is inserted properly
- For C Toner spills in the machine

Procedure

Check for Image Quality Defects. **An Image Quality Defect is present.**

Y N
| Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.

The Defect is Low Image Density or Uneven Density.

Y N
| **The Defect is Background.**
| **Y N**
| | Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.
| | Go to IQ6 and troubleshoot IOT Background.

Go to IQ3 and troubleshoot Low Image Density or Uneven Density.

024-928 Scratch Sheet Compile RAP

Defective paper (Scratch Sheet), which is informed by IOT with Sheet Exit command, is output to Complier.

Procedure

Check that the Top Cover Interlock is closed.

024-930 Stacker Tray Full RAP

BSD-ON:12.8

The output paper stacked on the Finisher Stacker Tray reaches capacity (for mixed paper size).

Initial Actions

- Power Off/On

Procedure

Check the tray raise/lower mechanism for foreign substances and distortion. **No distortion or foreign substances are found in the tray raise/lower mechanism.**

Y N

Clear away the foreign substances. Correct the distortion.

Execute Component Control [012-267 Stack Height Sensor]. Actuate the Stack Height Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8815, P/J8825 and P/J8850. **P/J8815, P/J8825 and P/J8850 are connected correctly.**

Y N

Connect P/J8815, P/J8825 and P/J8850.

Check the wire between J8815 and J8850 for an open circuit or a short circuit (BSD 12.8 Flag 1/Flag 2). **The wire between J8815 and J8850 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850B-6 (+) and GND (-) (BSD 12.8 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850B-5 (+) and GND (-) (BSD 12.8 Flag 2).

Actuate the Stack Height Sensor with paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 17.5).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor (PL 16.10) starts up.**

Y N

Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N

Connect P/J8847 and P/J8827.

A B

Check the wire between J8847 and P8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and P8827 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Motor (PL 16.10) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

A B

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024-934 Paper Type Mismatch RAP

BSD-ON:

There is no description available at time of publication.

Procedure

There is no procedure available at time of publication.

024-946 Tray 1 Position RAP

BSD-ON:7.1

The Tray 1 Paper Size Switch detected no tray.

Initial Actions

- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

(TM)

Remove Trays 1 and 2. Replace Tray 1 with Tray 2. **[024-946] occurs.**

Y N

Replace the faulty part of the Tray 1 Actuator.

Check the installation of the Tray 1 Paper Size Switch. **The Tray 1 Paper Size Switch is installed correctly.**

Y N

Install the Tray 1 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-947 2TM Tray 2 Position RAP

BSD-ON:7.3

The Tray 2 Paper Size Switch detected no tray.

Initial Actions

- Install the tray correctly.
- Check the operation of the tray actuator.

Procedure

Check the installation of the Tray 2 Paper Size Switch. **The Tray 2 Paper Size Switch is installed correctly.**

Y N
| Install the Tray 2 Paper Size Switch correctly.

Check the connections of P/J820 and P/J548 (BSD 7.3). **Connectors are connected correctly.**

Y N
| Connect P/J820 and P/J548.

Check the wire between J820 and J548 for an open circuit or a short circuit (BSD 7.3). **The wire between J820 and J548 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P548-14 (+) and GND (-) (BSD 7.3). **The voltage is approx. +3.3VDC.**

Y N
| Replace the Tray Module PWB (PL 14.7).

Measure the voltage between the Tray Module PWB P548-13 (+) and GND (-) (BSD 7.3). Move the actuator of the Tray 2 No Paper Sensor. **The voltage changes.**

Y N
| Replace the Tray 2 No Paper Sensor (PL 14.1).

Replace the Tray Module PWB (PL 14.7).

024-947 TTM Tray 2 Position RAP

BSD-ON:7.5

The Tray 2 Paper Size Switch detected no tray.

Initial Actions

- Install the tray correctly.
- Check the operation of the tray actuator.

Procedure

Check the installation of the Tray 2 Paper Size Switch. **The Tray 2 Paper Size Switch is installed correctly.**

Y N
| Install the Tray 2 Paper Size Switch correctly.

Check the connections of P/J820 and P/J548 (BSD 7.3). **Connectors are connected correctly.**

Y N
| Connect P/J820 and P/J548.

Check the wire between J820 and J548 for an open circuit or a short circuit (BSD 7.5). **The wire between J820 and J548 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P548-14 (+) and GND (-) (BSD 7.5). **The voltage is approx. +3.3VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P548-13 (+) and GND (-) (BSD 7.3). Move the actuator of the Tray 2 No Paper Sensor. **The voltage changes.**

Y N
| Replace the Tray 2 No Paper Sensor (PL 15.1).

Replace the Tray Module PWB (PL 15.9).

024-948 2TM Tray 3 Position RAP

BSD-ON:7.5

The Tray 3 Paper Size Switch detected no tray.

Initial Actions

- Install the tray correctly.
- Check the operation of the tray actuator.

Procedure

Check the installation of the Tray 3 Paper Size Switch. **The Tray 3 Paper Size Switch is installed correctly.**

Y N
| Install the Tray 3 Paper Size Switch correctly.

Check the connections of P/J824 and P/J548 (BSD 7.4). **Connectors are connected correctly.**

Y N
| Connect P/J824 and P/J548.

Check the wire between J824 and J548 for an open circuit or a short circuit (BSD 7.4). **The wire between J824 and J548 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P548-7 (+) and GND (-) (BSD 7.4). **The voltage is approx. +3.3VDC.**

Y N
| Replace the Tray Module PWB (PL 14.7).

Measure the voltage between the Tray Module PWB P548-6 (+) and GND (-) (BSD 7.4). Move the actuator of the Tray 3 No Paper Sensor. **The voltage changes.**

Y N
| Replace the Tray 3 No Paper Sensor (PL 14.1).

Replace the Tray Module PWB (PL 14.7).

024-948 TTM Tray 3 Position RAP

BSD-ON:7.5

The Tray 3 Paper Size Switch detected no tray.

Initial Actions

- Install the tray correctly.
- Check the operation of the tray actuator.

Procedure

Check the installation of the Tray 3 Paper Size Switch. **The Tray 3 Paper Size Switch is installed correctly.**

Y N
| Install the Tray 3 Paper Size Switch correctly.

Check the connections of P/J824 and P/J548 (BSD 7.6). **Connectors are connected correctly.**

Y N
| Connect P/J824 and P/J548.

Check the wire between J824 and J548 for an open circuit or a short circuit (BSD 7.6). **The wire between J824 and J548 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P548-7 (+) and GND (-) (BSD 7.6). **The voltage is approx. +3.3VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P548-6 (+) and GND (-) (BSD 7.6). Move the actuator of the Tray 3 No Paper Sensor. **The voltage changes.**

Y N
| Replace the Tray 3 No Paper Sensor (PL 15.1).

Replace the Tray Module PWB (PL 15.9).

024-950 Tray 1 Empty RAP

BSD-ON:7.7

Tray 1 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 1 No Paper Sensor (PL 2.3) and the operation of the actuator. **The Tray 1 Level Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the Tray 1 Level Sensor.

Execute Component Control [071-101 Tray 1 No Paper Sensor]. Manually activate the Tray 1 No Paper Sensor (PL 2.3). **The display changes.**

Y N
| Check the connections of P/J101, P/J611 and P/J424. **Connectors are connected correctly.**

Y N
| Connect P/J101, P/J611 and P/J424.

Check the wire between J101 and J424 for an open circuit or a short circuit (BSD 7.7 Flag 4/Flag 5). **The wire between J101 and J409 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P424A-10 (+) and GND (-) (BSD 7.7 Flag 5). **The voltage is approx. +5VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P424A-12 (+) and GND (-) (BSD 7.7 Flag 4).

Activate the actuator of the Tray 1 No Paper Sensor (PL 2.3). **The voltage changes.**

Y N
| Replace the Tray 1 No Paper Sensor (PL 2.3).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1).

024-951 2TM Tray 2 Empty RAP

BSD-ON:7.9

Tray 2 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 2 No Paper Sensor (PL 14.3) and the operation of the actuator. **The Tray 2 Level Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the Tray 2 Level Sensor.

Execute Component Control [072-102 Tray 2 No Paper Sensor]. Manually activate the Tray 2 No Paper Sensor (PL 14.3). **The display changes.**

Y N
| Check the connections of P/J102B, P/J661B and P/J549. **Connectors are connected correctly.**

Y N
| Connect P/J102B, P/J661B and P/J549.

Check the wire between J102B and J549 for an open circuit or a short circuit (BSD 7.9 Flag 5/Flag 4). **The wire between J102B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P549-25 (+) and GND (-) (BSD 7.9 Flag 5). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 14.7).

Measure the voltage between the Tray Module PWB P549-27 (+) and GND (-) (BSD 7.9 Flag 4).

Activate the actuator of the Tray 2 No Paper Sensor (PL 14.3). **The voltage changes.**

Y N
| Replace the Tray 2 No Paper Sensor (PL 14.3).

Replace the Tray Module PWB (PL 14.7).

Replace the Tray Module PWB (PL 14.7).

024-951 TTM Tray 2 Empty RAP

BSD-ON:7.11

Tray 2 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 2 No Paper Sensor (PL 15.6) and the operation of the actuator. **The Tray 2 Level Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the Tray 2 Level Sensor.

Execute Component Control [072-102 Tray 2 No Paper Sensor]. Manually activate the Tray 2 No Paper Sensor (PL 15.6). **The display changes.**

Y N
| Check the connections of P/J102B, P/J661B and P/J549. **Connectors are connected correctly.**

Y N
| Connect P/J102B, P/J661B and P/J549.

Check the wire between J102B and J549 for an open circuit or a short circuit (BSD 7.11 Flag 5/Flag 4). **The wire between J102B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P549-25 (+) and GND (-) (BSD 7.11 Flag 5). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P549-27 (+) and GND (-) (BSD 7.11 Flag 4).

Activate the actuator of the Tray 2 No Paper Sensor (PL 15.6). **The voltage changes.**

Y N
| Replace the Tray 2 No Paper Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Replace the Tray Module PWB (PL 15.9).

024-952 2TM Tray 3 Empty RAP

BSD-ON:7.10

Tray 3 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 3 No Paper Sensor (PL 14.3) and the operation of the actuator. **The Tray 3 Level Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the Tray 3 Level Sensor.

Execute Component Control [073-101 Tray 3 No Paper Sensor]. Manually activate the Tray 3 No Paper Sensor (PL 14.3). **The display changes.**

Y N
| Check the connections of P/J102A, P/J661A and P/J549. **Connectors are connected correctly.**

Y N
| Connect P/J102A, P/J661B and P/J549.

Check the wire between J102A and J549 for an open circuit or a short circuit (BSD 7.10 Flag 4/Flag 5). **The wire between J102A and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P549-10 (+) and GND (-) (BSD 7.10 Flag 5). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 14.7).

Measure the voltage between the Tray Module PWB P549-12 (+) and GND (-) (BSD 7.10 Flag 4).

Activate the actuator of the Tray 3 No Paper Sensor (PL 14.3). **The voltage changes.**

Y N
| Replace the Tray 3 No Paper Sensor (PL 14.3).

Replace the Tray Module PWB (PL 14.7).

Replace the Tray Module PWB (PL 14.7).

024-952 TTM Tray 3 Empty RAP

BSD-ON:7.12

Tray 3 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 3 No Paper Sensor (PL 15.6) and the operation of the actuator. **The Tray 3 Level Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the Tray 3 Level Sensor.

Execute Component Control [073-101 Tray 3 No Paper Sensor]. Manually activate the Tray 3 No Paper Sensor (PL 15.6). **The display changes.**

Y N
| Check the connections of P/J102A, P/J661A and P/J549. **Connectors are connected correctly.**

Y N
| Connect P/J102A, P/J661B and P/J549.

Check the wire between J102A and J549 for an open circuit or a short circuit (BSD 7.12 Flag 4/Flag 5). **The wire between J102A and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P549-10 (+) and GND (-) (BSD 7.12 Flag 5). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P549-12 (+) and GND (-) (BSD 7.12 Flag 4).

Activate the actuator of the Tray 3 No Paper Sensor (PL 15.6). **The voltage changes.**

Y N
| Replace the Tray 3 No Paper Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Replace the Tray Module PWB (PL 15.9).

024-954 MSI Empty RAP

BSD-ON:7.13

The MSI is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the MSI No Paper Sensor (PL 7.1) and the operation of the actuator. **The MSI No Paper Sensor is installed correctly and the actuator works.**

Y N
| Reinstall the MSI No Paper Sensor.

Execute Component Control [075-100 MSI No Paper Sensor]. Manually activate the MSI No Paper Sensor (PL 9.1). **The display changes.**

Y N
| Check the connections of P/J108, P/J610 and P/J424. **Connectors are connected correctly.**

Y N
| Connect P/J108, P/J610 and P/J424.

Check the wire between J108 and J424 for an open circuit or a short circuit (BSD 7.13 Flag 3/Flag 4). **The wire between J108 and J424 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P424-6 (+) and GND (-) (BSD 7.13 Flag 4). The voltage is approx. +5VDC.

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P424-8 (+) and GND (-) (BSD 7.13 Flag 3). Activate the actuator of the MSI No Paper Sensor (PL 9.1). **The voltage changes.**

Y N
| Replace the MSI No Paper Sensor (PL 9.1).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1).

024-958 MSI Size RAP

BSD-ON:7.13

The MSI is unable to detect the paper size.

Initial Actions

- Power Off/On
- Check the operation of the MSI Guide.

Procedure

Check the installation and operation of the MSI Guide. **The MSI Guide is installed correctly and the actuator works.**

Y N
| Reinstall the MSI Guide.

Measure the voltage between the MCU PWB P424-3 (+) and GND (-) (BSD 7.13 Flag 1).

Manually operate the MSI Guide. **As the MSI Guide moves, the voltage changes accordingly.**

Y N
| Check the connections of P/J107, P/J609, P/J610 and P/J424. **Connectors are connected correctly.**

Y N
| Connect P/J107, P/J609, P/J611 and P/J424.

Check the wire between J107 and J424 for an open circuit or a short circuit (BSD 7.13 Flag 2). **The wire between J107 and J424 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P454-1 (+) and GND (-) (BSD 7.13 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Replace the MSI Paper Size Sensor (PL 9.1).

Replace the MCU PWB (PL 11.1).

024-959 Tray 1 Paper Size RAP

BSD-ON:7.1

There is a Tray 1 paper size error.

Procedure

Check the condition of the Tray 1 Paper Size Switch assembly (PL 2.1). Repair as required.

If the switch is in good condition go to the OF 2 Size Switch Assembly RAP.

024-960 Tray 2 Paper Size RAP

BSD-ON:7.3/7.5

There is a Tray 2 paper size error.

Procedure

Check the condition of the Tray 2 Paper Size Switch assembly (PL 14.1/PL 15.1). Repair as required.

If the switch is in good condition go to the OF 2 Size Switch Assembly RAP.

024-961 Tray 3 Paper Size RAP

BSD-ON:7.4/7.6

There is a Tray 3 paper size error.

Procedure

Check the condition of the Tray 3 Paper Size Switch assembly (PL 14.1/PL 15.1). Repair as required.

If the switch is in good condition go to the OF 2 Size Switch Assembly RAP.

024-965 ATS/APS Paper (IOT detect) RAP

BSD-ON:7.7/7.8/7.9/7.10/7.11/7.12

No paper is loaded in the tray.

Initial Actions

- Power Off/On
- Reload the relevant tray.

Procedure

Check the actuator of the relevant No Paper Sensor. **The actuator is not distorted or damaged.**

Y N
|
Replace the actuator.

Actuate the actuator of the relevant No Paper Sensor.

Tray 1: Component Control [071-101 Tray 1 No Paper Sensor]

Tray 2: Component Control [072-102 Tray 2 No Paper Sensor]

Tray 3: Component Control [073-101 Tray 3 No Paper Sensor]

The display changes.

Y N
|
Check the connections of the following connectors:

Tray 1: P/J101, P/J611, P/J424

Tray 2: P/J102B, P/J661B, P/J549

Tray 3: P/J102A, P/J661A, P/J549

The connectors are securely connected.

Y N
|
Connect the connectors.

Check the following harnesses for an open circuit or a short circuit.

Tray 1: Between J101 and J424 (BSD 7.7 Flag 4/Flag 5)

Tray 2: Between J102B and J549 (BSD 7.8 Flag 4/Flag 5)

Tray 3: Between J102B and J549 (BSD 7.10 Flag 4/Flag 5)

The relevant harnesses are conducting without an open circuit or a short circuit.

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the following points (+) and GND (-).

Tray 1: MCU PWB P424-A10 (BSD 7.7 Flag 5)

Tray 2: MCU PWB P549-25 (BSD 7.8 Flag 5)

Tray 3: TM PWB P549-10 (BSD 7.10 Flag 5)

The voltage is approx. +5VDC.

Y N
|
Replace the relevant PWB (MCU PWB (PL 11.1) or the Tray Module PWB (PL 14.7).

Measure the voltage between the MCU PWB P409A-12 (+) and GND (-).

Tray 1: MCU PWB P409A-12 (BSD 7.7 Flag 4)

Tray 2: MCU PWB P409B-12 (BSD 7.8 Flag 4)

Tray 3: TM PWB P549-A12 (BSD 7.10 Flag 4)

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Activate the actuator of the relevant No Paper Sensor (PL 2.3, PL 14.3). **The voltage changes.**

Y N
|
Replace the relevant No Paper Sensor (PL 2.3, PL 14.3).

Replace the relevant PWB (MCU PWB (PL 11.1) or Tray Module PWB (PL 14.7).

For Tray 1, replace the MCU PWB (PL 11.1).

For Tray 2, or Tray 3 replace the Tray Module PWB (PL 14.7).

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024-966 ATS/APS Destination RAP

BSD-ON:7.1-7.6

APS/ATS is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.1- 7.6.
- Reload the tray.

Procedure

Check the installation of the relevant Size Sensor. **The relevant Size Sensor is installed correctly.**

Y N

| Install the relevant Size Sensor correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-967 Mixed Width Paper (Staple Job) RAP

BSD-ON:3.4

Paper Width Mix was detected during stapling.

Initial Actions

- Power Off/On

Procedure

Check the connection of each MCU PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 2/Flag 1). **The wire between J416 and J8843 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB J416-A3 (+) and GND (-) (BSD 3.4 Flag 2). **The voltage is approx. +5VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

024-976 Staple Status Failed RAP

BSD-ON:12.6

- After the Stapler Motor turned On (Forward rotation), the system did not detect that the Staple Head Home Sensor switched from Off to On within the specified time.
- After the Stapler Motor turned On (Reverse rotation), the Staple Head Home Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The Stapler Motor can be heard.**

Y N
Check the connections of P/J8819 and P/J8847. **P/J8819 and P/J8847 are connected correctly.**
Y N
| Connect P/J8819 and P/J8847.
|
Check the wire between J8819 and J8847 for an open circuit or a short circuit (BSD 12.6 Flag 1). **The wire between J8819 and J8847 is conducting without an open circuit or a short circuit.**
Y N
| Repair the open circuit or short circuit.
|
Replace the Staple Assembly (PL 17.8) If the problem persists, replace the Finisher PWB (PL 17.12).

Execute Component Control [012-244 Staple Head Home Sensor]. Alternately execute Component Control [012-046 Staple Motor FORWARD ON] and Component Control [012-047 Staple Motor REVERSE ON]. **The display changes.**

Y N
Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**
Y N
| Connect P/J8818 and P/J8852.
|
Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 2/Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**
Y N
| Repair the open circuit or short circuit.
|
Measure the voltage between the Finisher PWB P8852-1 (+) and GND (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**
Y N
| Replace the Finisher PWB (PL 17.12).
|
Replace the Staple Assembly (PL 17.8) If the problem persists, replace the Finisher PWB (PL 17.12).

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Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

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024-977 Stapler Feed Ready RAP

BSD-ON:12.6

When starting Staple, Staple Ready Sensor Off was detected.

Empty stapling was within 13 times.

Initial Actions

- Power Off/On
- Reload the Staple Cartridge.

Procedure

Execute Component Control [012-243 Staple Ready Sensor]. Install and remove the Staple Cartridge. **The display changes.**

Y N
Check the Staple Cartridge for failure or foreign substances. **There are no foreign substances and nothing has failed.**

Y N
Repair the failure and remove the foreign substances.

Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**

Y N
Connect P/J8818 and P/J8852.

Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-1 (+) and GND (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8852-3 (+) and GND (-) (BSD 12.6 Flag 3). Install and remove the Staple Cartridge. **The voltage changes.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Staple Assembly (PL 17.8) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

024-979 Stapler Near Empty RAP

BSD-ON:12.6

- The Staple Pin is nearly empty.
- The cartridge has not been installed.

Initial Actions

- Power Off/On

Procedure

Execute Component Control [012-242 Low Staple Sensor]. Install and remove the Staple Pin Cartridge. **The display changes.**

Y N
Check the Staple Pin Cartridge for failure or foreign substances. **There are no foreign substances and nothing has failed.**

Y N
Repair the failure and remove the foreign substances.

Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**

Y N
Connect P/J8818 and P/J8852.

Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6 Flag 2/Flag 3). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8852-1 (+) and GND (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8852-4 (+) and GND (-) (BSD 12.6 Flag 3). Install and remove the Staple Pin Cartridge. **The voltage changes.**

Y N
Replace the Finisher PWB (PL 17.12).

Replace the Staple Assembly (PL 17.8) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

024-980 Stacker Tray Full RAP

BSD-ON:12.8

The output paper stacked on the Finisher Stacker Tray reaches capacity (for mixed paper size).

Initial Actions

- Power Off/On

Procedure

Check the tray raise/lower mechanism for foreign substances and distortion. **No distortion or foreign substances are found in the tray raise/lower mechanism.**

Y N

Clear away the foreign substances. Correct the distortion.

Execute Component Control [012-267 Stack Height Sensor]. Actuate the Stack Height Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8815, P/J8825 and P/J8850. **P/J8815, P/J8825 and P/J8850 are connected correctly.**

Y N

Connect P/J8815, P/J8825 and P/J8850.

Check the wire between J8815 and J8850 for an open circuit or a short circuit (BSD 12.8 Flag 1/Flag 2). **The wire between J8815 and J8850 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850B-6 (+) and GND (-) (BSD 12.8 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850B-5 (+) and GND (-) (BSD 12.8 Flag 2).

Actuate the Stack Height Sensor with paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 17.5).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor (PL 16.10) starts up.**

Y N

Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N

Connect P/J8847 and P/J8827.

A B

Check the wire between J8847 and P8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and P8827 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Motor (PL 16.10) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

A B

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024-982 Stacker Lower Safety Warning RAP

BSD-ON:12.8

- After the Stacker Motor turned On (descending), the Stack Height Sensor did not turn On within the specified time.
- After the Stacker Motor turned On (descending), the Stack Height Sensor did not turn Off within the specified time.

Initial Actions

- Power Off/On

Procedure

Check the tray raise/lower mechanism for foreign substances and distortion. **No distortion or foreign substances are found in the tray raise/lower mechanism.**

Y N

Clear away the foreign substances. Correct the distortion.

Execute Component Control [012-267 Stack Height Sensor]. Actuate the Stack Height Sensor with paper. **The display changes.**

Y N

Check the connections of P/J8815, P/J8825 and P/J8850. **P/J8815, P/J8825 and P/J8850 are connected correctly.**

Y N

Connect P/J8815, P/J8825 and P/J8850.

Check the wire between J8815 and J8850 for an open circuit or a short circuit (BSD 12.8 Flag 1/Flag 2). **The wire between J8815 and J8850 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P8850B-6 (+) and GND (-) (BSD 12.8 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P8850B-5 (+) and GND (-) (BSD 12.8 Flag 2).

Actuate the Stack Height Sensor with paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 17.5).

Replace the Finisher PWB (PL 17.12).

Alternately execute Component Control [012-060 Stacker Motor up ON] and Component Control [012-061 Stacker Motor down ON]. **The Stacker Motor (PL 16.10) starts up.**

Y N

Check the connections of P/J8847 and P/J8827. **P/J8847 and P/J8827 are connected correctly.**

Y N

Connect P/J8847 and P/J8827.

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Check the wire between J8847 and P8827 for an open circuit or a short circuit (BSD 12.8 Flag 5). **The wire between J8847 and P8827 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Motor (PL 17.10) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

024-985 MSI Feed RAP

BSD-ON:7.13/8.1

The job was aborted during MSI feed.

Initial Actions

- Power Off/On

Procedure

Check the document size. **The size of the document is within the specification.**

Y N

Use a paper size within the specification.

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N

Clear away the foreign substances and paper powder. Correct the distortion.

Check the installation and operation of the MSI Guide. **The MSI Guide is installed correctly and the actuator works.**

Y N

Reinstall the MSI Guide

Measure the voltage between the MCU PWB P424-3 (+) and GND (-) (BSD 7.13 Flag 1).

Manually operate the MSI Guide. **As the MSI Guide moves, the voltage changes accordingly.**

Y N

Check the connections of P/J107, P/J609, P/J605 and P/J424. **Connectors are connected correctly.**

Y N

Connect P/J107, P/J609, P/J605 and P/J424.

Check the wire between J107 and J424 for an open circuit or a short circuit (BSD 7.13 Flag 1/Flag 2). **The wire between J107 and J424 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P424-1 (+) and GND (-) (BSD 7.13 Flag 2).

The voltage is approx. +5VDC.

Y N

Replace the MCU PWB (PL 11.1).

Replace the MSI Paper Size Sensor (PL 9.3).

Replace the MCU PWB (PL 11.1).

024-916 (A-Finisher) Mix Stack Full

BSD-ON:CH15.2, CH15.8

In detection of Half Position (Mix Full position), one of the following is met:

- Paper in the job is larger (longer in either lead/trail edge or side edge) than the last paper of the previous job.
- The width of the last paper of the previous job is less than 279.4mm and a change is made to Staple Mode.
- The size of the last paper of the previous job is "unknown."

Initial Actions

- Check that the Stack Height Sensor is properly installed, not broken and has no foreign objects.
- Check Stacker Stack Sensors 1 and 2 are properly installed and free from foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check the paper size of the job. **The paper of the job is equal in size to or smaller than (in either lead/trail edge or side edge) the last paper of the previous job.**

Y N
|
Load paper of the appropriate size.

Check the settings of the Staple Mode for the current job. **The settings are the same as the ones for the previous job.**

Y N
|
Return the Staple Mode settings to the previous ones.

Check for paper and/or foreign objects on the Stacker Tray. **The Stacker Tray is in normal condition with no paper or foreign object left there.**

Y N
|
Remove the remaining paper and/or foreign object(s).

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The drive mechanism is free of defects and gears seat properly.**

Y N
|
Repair the Stacker Tray mechanism.

Enter Component Control [012-267]. Block and unblock the Stack Height Sensor with a piece of paper. **The display changes.**

Y N
|
Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N
|
Connect P/J8708 and P/J8727 securely.

Check for an open or short circuit between J8708 and J8727. **The wires between J8708 and J8727 are OK.**

A

Y N
|
Repair the open or short circuit.

Measure the voltage between J8708-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
|
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8708-2 (+) on the Finisher PWB and GND (-). Block and unblock the Stack Height Sensor. **The voltage changes.**

Y N
|
Replace the Stack Height Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-278]. Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
|
Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**

Y N
|
Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N
|
Repair the open or short circuit.

Measure the voltage between J8707-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
|
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-5 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
|
Replace the Stacker Stack Sensor 1 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-279]. Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
|
Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**

Y N
|
Connect P/J8707 and P/J8721 securely.

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Check for an open or short circuit between J8707 and J8721. **The wires between J8707 and J8721 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between J8707-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Using Chapter 7 Wirenets, check the +5VDC circuit to J8707-3 on the Finisher PWB.

Measure the voltage between J8707-2 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 2 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N

Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N

Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N

Repair the open or short circuit.

Enter [012-060], measure the voltage between J8711-1 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between J8711-2 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Stacker Motor (PL 22.8).

Check the connections of the connectors between the Finisher and the IOT. **The connectors are securely connected.**

Y N

Connect the connectors securely.

If the problem continues, replace the Finisher PWB (PL 22.7).

024-917 (A-Finisher) Stacker Tray Staple Set Over Count

BSD-ON:CH15.2, CH15.8

While sets of stapled sheets of paper are being ejected, the Staple Set Count for the Stacker Tray exceeded 30.

Initial Actions

- Check that the Stack Height Sensor is properly installed, not broken and has no foreign objects.
- Check Stacker Stack Sensors 1 and 2 are properly installed and free from foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check for remaining paper and foreign objects on the Stacker Tray. **The Stacker Tray is in normal condition with no paper or foreign object left there.**

Y N

Remove the remaining paper and/or foreign object(s).

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The drive mechanism is free of defects and gears seat properly.**

Y N

Repair the Stacker Tray mechanism.

Enter Component Control [012-267]. Block and unblock the Stack Height Sensor with a piece of paper. **The display changes.**

Y N

Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N

Connect P/J8708 and P/J8727.

Check for an open or short circuit between J8708 and J8727. **The wires between J8708 and J8727 are OK.**

Y N

Repair the open wire or short circuit.

Measure the voltage between J8708-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8708-2 (+) on the Finisher PWB and GND (-). Block and unblock the Stack Height Sensor with a piece of paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

A

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Enter [012-330]. Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The display changes.**

Y N

Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**

Y N

Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between J8707-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-5 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 1 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-279]. Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the acceptance surface. **The display of DC330[012-279] changes.**

Y N

Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**

Y N

Connect P/J8707 and P/J8721 securely.

Check for an open wire or short circuit between J8707 and J8721. **The wire between J8707 and J8721 is normally conductive with no open wire or short circuit.**

Y N

Repair the open wire or short circuit.

Measure the voltage between J8707-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-2 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 2 (PL 22.8).

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Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N

Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N

Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N

Repair the open or short circuit.

Enter [012-060], measure the voltage between J8711-1 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between J8711-2 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Stacker Motor (PL 22.8).

Check the connections of the connectors between the Finisher and the IOT. **The connectors are securely connected.**

Y N

Connect the connectors securely.

If the problem continues, replace the Finisher PWB (PL 22.7).

024-928 (A-Finisher) Scratch Sheet Compile

BSD-ON:CH15.2

Sheet Information command made abnormal paper (scratched paper) reported by the IOT ejected into the compiler.

NOTE: This Fail Code is an operation message. If this fail code is frequently declared, perform the procedure below.

Initial Actions

- Check that the Top Cover can be opened and closed.
- Power Off/On.

Procedure

Check the specifications of paper. **The paper is in spec.**

Y N
|
Replace the paper with new paper that is in spec.

Check the condition of the paper. **The paper is in normal condition without any problem that causes the paper to be bent or caught.**

Y N
|
Resolve any problem that causes the paper to be bent or caught.

Check for a Fail Code. **Another Fail Code is displayed.**

Y N
|
If the problem continues, replace the Finisher PWB (PL 22.7).

Go to the appropriate Fault Code.

024-930 (A-Finisher) Stacker Tray Full Stack

BSD-ON:CH15.8

One of the following:

- At Power On, the Stack Height Sensor detected the height and the Full position.
- During the operation of adjusting (lowering) the height of the Stacker Tray for small paper to be ejected, the Full position was detected.
- During the operation of adjusting (lowering) the height of the Stacker Tray for large paper to be ejected, the Half position (Full-of-Large-Sheets position) was detected.
- With the Half position (Full-of-Large-Sheets position) already detected, paper (large paper) a stack of which is limited to the Half position was ejected.

Initial Actions

- Check that the Stack Height Sensor is properly installed, not broken and has no foreign objects.
- Check Stacker Stack Sensors 1 and 2 are properly installed and free from foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check for remaining paper and foreign objects on the Stacker Tray. **The Stacker Tray is free of paper or foreign objects.**

Y N
|
Remove the remaining paper and/or foreign object(s).

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The drive mechanism is in normal condition, not deformed or broken and with no not-seated gears.**

Y N
|
Repair the Stacker Tray mechanism.

Enter Component Control [012-267]. Block and unblock the Stack Height Sensor with a piece of paper. **The display changes.**

Y N
|
Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N
|
Connect P/J8708 and P/J8727 securely.

Check for an open or short circuit between J8708 and J8727. **The wires between J8708 and J8727 are OK.**

Y N
|
Repair the open or short circuit.

Measure the voltage between J8708-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
|
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

A B

A B
Measure the voltage between J8708-2 (+) on the Finisher PWB and GND (-). Block and unblock the Stack Height Sensor with a piece of paper. **The voltage changes.**
Y N
Replace the Stack Height Sensor (PL 22.10).
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Run DC330[012-278].
Enter [012-278]. Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**
Y N
Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8707-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-5 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
Replace the Stacker Stack Sensor 1 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-279]. Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**
Y N
Connect P/J8707 and P/J8721 securely.

Check for an open or short circuit between J8707 and J8721. **The wires between J8707 and J8721 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8707-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

C
Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-2 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
Replace the Stacker Stack Sensor 2 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N
Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N
Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N
Repair the open or short circuit.

Enter [012-060], measure the voltage between J8711-1 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N
Replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between J8711-2 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Stacker Motor (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

024-976 (A-Finisher) Staple NG

BSD-ON:CH15.5

As Staple Head Home Sensor On was not detected within 450msec after the start of the operation of closing the Stapler Head, the reverse rotation started. After that, Staple Head Home Sensor On was detected.

Initial Actions

- Check that the Top Cover and the Front Cover can be opened and closed.
- Check that the Staple Assembly and the Cartridge are properly installed, not broken and include no foreign objects.
- Power Off/On.

Procedure

Check for remaining paper and foreign objects on the Compile Tray. **The Compile Tray is free of paper and/or foreign objects.**

Y N

Remove the remaining paper and/or foreign object(s).

Enter Component Control [012-046] and [012-047] alternately. **The Staple Motor rotates.**

Y N

Check the connections of P/J8705 and P/J8735. **P/J8705 and P/J8735 are securely connected.**

Y N

Connect P/J8705 and P/J8735 securely.

Check for an open or short circuit between J8705 and J8735. **The wires between J8705 and J8735 are OK.**

Y N

Repair the open or short circuit.

Measure the voltages between J8705-3 to 6 (+) on the Finisher PWB and GND (-). Enter [012-046] and [012-047] alternately. **Each voltage changes.**

Y N

Replace the Finisher PWB (PL 22.7).

Replace the Staple Assembly (PL 22.4).

Enter [012-046] and [012-047] alternately. **The display changes.**

Y N

Check the connections of P/J8701 and P/J8731. **P/J8701 and P/J8731 are securely connected.**

Y N

Connect P/J8701 and P/J8731 securely.

Check for an open or short circuit between J8701 and J8731. **The wires between J8701 and J8731 are OK.**

Y N

Repair the open or short circuit.

A B

Measure the voltage between J8701-4 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8701-5 (+) on the Finisher PWB and GND (-). Enter [012-046] and [012-047] alternately. **The voltage changes.**

Y N

Replace the Staple Assembly (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

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024-977 (A-Finisher) Stapler Feed Ready Fail

BSD-ON:CH15.5

- In the operation of getting the Stapler head ready at initialization, Stapler Ready Sensor ON was not detected until a specified number (13) of Head idle-stapling operations.
- Immediately before stapling, the Stapler Ready Sensor was Off.

Initial Actions

- Check that the Staple Assembly and the Cartridge are properly installed, not broken and include no foreign objects.
- Power Off/On.

Procedure

Enter Component Control [012-243]. Remove and reinstall the Cartridge from/in the Staple Assembly. **The display changes.**

Y N
Check the connections of P/J8701 and P/J8731. **P/J8701 and P/J8731 are securely connected.**

Y N
Connect P/J8701 and P/J8731 securely.

Check for an open or short circuit between J8701 and J8731. **The wires between J8701 and J8731 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8701-4 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8701-6 (+) on the Finisher PWB and GND (-). Remove and reinstall the Cartridge from/in the Staple Assembly. **The voltage changes.**

Y N
Replace the Staple Assembly (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

024-979 (A-Finisher) Stapler Near Empty

BSD-ON:CH15.5

One of the following:

- At Power On, Low Staple Sensor ON was detected.
- Immediately before the start of the operation of closing the Stapler Head, Low Staple Sensor ON was detected.

Initial Actions

- Check that the Front Cover can be opened and closed.
- Check that the Staple Assembly and the Cartridge are properly installed, not broken and include no foreign objects.
- Power Off/On.

Procedure

Check what amount of staples remain in the Cartridge. **The is enough staples remaining run the stapler.**

Y N
Replace the Cartridge.

Run DC330[012-242].

Enter Component Control [012-252]. Remove and reinstall the Cartridge from/in the Staple Assembly. **The display changes.**

Y N
Check the connections of P/J8701 and P/J8731. **P/J8701 and P/J8731 are securely connected.**

Y N
Connect P/J8701 and P/J8731 securely.

Check for an open or short circuit between J8701 and J8731. **The wires between J8701 and J8731 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8701-4 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8701-7 (+) on the Finisher PWB and GND (-). Remove and reinstall the Cartridge from/in the Staple Assembly. **The voltage changes.**

Y N
Replace the Staple Assembly (PL 22.4).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

024-980 (A-Finisher) Stacker Tray Full Stack

BSD-ON:CH15.8

One of the following:

- At Power On, the Stack Height Sensor detected the height and the Full position.
- During the operation of adjusting (lowering) the height of the Stacker Tray for small paper to be ejected, the Full position was detected.
- During the operation of adjusting (lowering) the height of the Stacker Tray for large paper to be ejected, the Half position (Full-of-Large-Sheets position) was detected.
- With the Half position (Full-of-Large-Sheets position) already detected, paper (large paper) a stack of which is limited to the Half position was ejected.

Initial Actions

- Check that the Stack Height Sensor is properly installed, not broken and has no foreign objects.
- Check Stacker Stack Sensors 1 and 2 are properly installed and free from foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check for remaining paper and foreign objects on the Stacker Tray. **The Stacker Tray is free of paper and/or foreign objects.**

Y N
Remove the remaining paper and/or foreign object(s).

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The drive mechanism is free of defects and the gears seat properly.**

Y N
Repair the Stacker Tray mechanism.

Enter COmponent Control [012-267]. Block and unblock the Stack Height Sensor with a piece of paper. **The display changes.**

Y N
Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N
Connect P/J8708 and P/J8727 securely.

Check for an open or short circuit between J8708 and J8727. **The wires between J8708 and J8727 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8708-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

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A B
Measure the voltage between J8708-2 (+) on the Finisher PWB and GND (-). Block and unblock the Stack Height Sensor with a piece of paper. **The voltage changes.**

Y N
Replace the Stack Height Sensor (PL 22.10).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Run DC330[012-278].

Enter [012-278]. Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**

Y N
Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N
Repair the open wire or short circuit.

Measure the voltage between J8707-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-5 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
Replace the Stacker Stack Sensor 1(PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Run DC330[012-279].

Enter [012-279]. Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**

Y N
Connect P/J8707 and P/J8721 securely.

Check for an open or short circuit between J8707 and J8721. **The wires between J8707 and J8721 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8707-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

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Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-2 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N

Replace the Stacker Stack Sensor 2 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N

Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N

Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N

Repair the open or short circuit.

Enter [012-060], measure the voltage between J8711-1 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between J8711-2 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Replace the Stacker Motor (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

024-982 (A-Finisher) Stacker Lower Safety Warning

BSD-ON:CH15.8

The condition below occurred four consecutive times.

- In the operation of adjusting the height of the Stacker Tray (lowering the tray) for paper to be ejected during a job, the height of it cannot be adjusted within a specified time.

Initial Actions

- Check the Stack Height Sensor is properly installed, not broken, and has no foreign object.
- Check the Stacker Stack Sensors 1 and 2 are properly installed and have no foreign objects and that their actuators are not broken.
- Power Off/On.

Procedure

Check for remaining paper and foreign objects on the Stacker Tray. **The Stacker Tray is free from paper and/or foreign objects.**

Y N

Remove the remaining paper and/or foreign object(s).

Check the drive mechanism to the Stacker Tray for a deformed or broken part and not-seated gears. **The drive mechanism is free of defects and gears seat properly.**

Y N

Repair the Stacker Tray mechanism.

Run DC330[012-267].

Enter Component Control [012-267]. Block and unblock the acceptance surface of the Stack Height Sensor with a piece of paper. **The display changes.**

Y N

Check the connections of P/J8708 and P/J8727. **P/J8708 and P/J8727 are securely connected.**

Y N

P/J8708 and P/J8727 are securely connected.

Check for an open or short circuit between J8708 and J8727. **The wires between J8708 and J8727 are OK.**

Y N

Repair the open or short circuit.

Measure the voltage between J8708-3 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N

Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8708-2 (+) on the Finisher PWB and GND (-). Block and unblock the Stack Height Sensor with a piece of paper. **The voltage changes.**

Y N

Replace the Stack Height Sensor (PL 22.10).

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A B
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Run DC330[012-278].

Enter [012-278]. Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8722. **P/J8707 and P/J8722 are securely connected.**

Y N
Connect P/J8707 and P/J8722 securely.

Check for an open or short circuit between J8707 and J8722. **The wires between J8707 and J8722 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8707-6 (+) on the Finisher PWB and GND (-). **The voltage is approx. +5VDC.**

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

Measure the voltage between J8707-5 (+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 1 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
Replace the Stacker Stack Sensor 1 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Run DC330[012-279].

Enter [012-279]. Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The display changes.**

Y N
Check the connections of P/J8707 and P/J8721. **P/J8707 and P/J8721 are securely connected.**

Y N
Connect P/J8707 and P/J8721 securely.

Check for an open or short circuit between J8707 and J8721. **The wires between J8707 and J8721 are OK.**

Y N
Repair the open or short circuit.

Measure the voltage between J8707-3 (+) on the Finisher PWB and GND (-). The voltage is approx. +5VDC.

Y N
Go to Wirenet 7.2.36 A-Finisher +5VDC and check the +5VDC circuit.

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Measure the voltage between J8707-2(+) on the Finisher PWB and GND (-). Rotate the Stacker Stack Sensor 2 actuator by hand to block and unblock the sensor. **The voltage changes.**

Y N
Replace the Stacker Stack Sensor 2 (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-060] and [012-061] alternately. **The Stacker Motor rotates.**

Y N
Check the connections of P/J8711 and P/J8736. **P/J8711 and P/J8736 are securely connected.**

Y N
Connect P/J8711 and P/J8736 securely.

Check for an open or short circuit between J8711 and P8736. **The wires between J8711 and P8736 are OK.**

Y N
Repair the open or short circuit.

Enter [012-060], measure the voltage between J8711-1 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

Enter [012-061], measure the voltage between J8711-2 (+) on the Finisher PWB and GND (-). **The voltage changes.**

Y N
Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).v

Replace the Stacker Motor (PL 22.8).

Check the wires and connectors for an intermittent open or short circuit. If the problem continues, replace the Finisher PWB (PL 22.7).

025-596 Diagnostic HDD Maintenance RAP

BSD-ON:16.1

A error is declared when the HDD Fail Forecast occurred.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

025-597 Diagnostic HDD Initialize RAP

BSD-ON:16.1

An error is declared when the HDD Initialization Diagnostic was executed.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

026-700 LDAP Protocol Max Error RAP

In handling Address Book, an out-of-spec LDAP protocol is detected.

Procedure

The server uses the out-of-spec LDAP protocol not supported by this machine. If trying to reproduce this, contact our Custom Support Center.

026-701 Address Book Request Overflow RAP

Overflowing with inquiries for Address Book

Procedure

If multiple input devices including the machine Panel and Web-UI make simultaneous inquiries for this machine Address Book, lengthen the intervals between inquiries.

026-702 Address Book Directory Service Overflow RAP

Address Book Directory Service is overflown.

Procedure

Software internal to this machine is defective.

027-452 Duplicate IP Address RAP

BSD-ON:16.1

A PC with the same IP address exists on the network.

Initial Actions

Change the IP address.

Procedure

If the problem persists, replace the ESS PWB (PL 11.2).

027-500 SMTP Server Mail I/O RAP

The Mail I/O cannot resolve the SMTP (Simple Mail Transfer Protocol) Server address.

Procedure

Specify the correct SMTP Server name or specify the IP address.

027-501 POP Server RAP

The Mail I/O cannot resolve the POP (Post Office Protocol) Server address.

Initial Actions

Power Off/On

Procedure

Specify the correct POP (Post Office Protocol) Server name or specify the IP address.

027-502 POP Authentication RAP

The Mail I/O cannot pass POP (Post Office Protocol) authentication.

Initial Actions

Power Off/On

Procedure

Check that the login name and password for the POP (Post Office Protocol) Server are correct.

027-513 SMB Scan Client RAP

A SMB scan client does not have the right to access. (Win9x series)

Initial Actions

Power Off/On

Procedure

Check if the specified user is allowed to read/write a file in storage place on the SMB server. If not, make the setting that allows the user to access.

027-514 Host Name Solution Error RAP

A failure in resolving a problem with a host name in SMB scan

Initial Actions

Power Off/On

Procedure

Check the connection to DNS. Or check that the destination server name is entered on DNS.

027-515 DNS Server Error in SMB RAP

In SMB scan, the server was not found on DNS.

Procedure

Set DNS address.

Or set the destination server address, using IP address.

027-516 Server Connection Error in SMB RAP

In SBM scan, there is a problem with the connection to the server.

Procedure

Check that the destination SMB server and this machine are set up so that they can communicate with each other on the network. For example, check the following:

- Network Cable for connection
- TCP/IP Setup
- Communication through Port 137 (UDP), Port 138 (UDP) and Port 139 (TCP)
- If any communication is conducted beyond subnet, check WINS Server settings and check that any problem with server name address can be resolved properly

027-518 Login/Password Error RAP

A login name or password error in SMB scan.

Procedure

Check the login name (user name) and password are correct.

027-519 Scanning Picture Error RAP

There is a problem with the scanned images saving place SBM scan server.

Procedure

Check the following:.

- That the storage place is correct.
- That the specified storage place is not linked to another server for DFS setting. Directly specify the server to link to, shared name and storage place.

027-520 File Name Acquisition Failure RAP

A failure in acquiring a file name/folder on the SMB scan server.

Procedure

Check the right to access the SMB scan server.

027-521 File Name Suffix Limit Error RAP

The suffix of a SMB scan file name/folder name exceeds the limit.

Procedure

Change the file name/destination folder, or move or delete the file in the destination folder.

027-522 File Creation Failure RAP

A failure in creating a SMB scan file.

Procedure

Check the following:

- That the specified name is a file name that can be created in the storage place.
- That the specified file name is not used by another user.
- That there is no file or folder with the same name as the specified file name.

027-523 Lock Folder Creation Failure RAP

A failure in creating a SMB scan lock folder

Procedure

Check the following:

- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.
- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

027-524 Folder Creation Failure RAP

A failure in creating a SMB scan folder

Procedure

Check the following:

- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

027-525 File Delete Failure RAP

A failure in deleting a SMB scan file.

Procedure

Check that another user does not handle the file in the specified storage place.

027-526 Lock Folder Delete Failure RAP

A failure in deleting a SMB scan lock folder

Procedure

If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.

027-527 Folder Delete Failure RAP

A failure in deleting a FTP scan folder

Procedure

Check that another user does not handle the file in the specified storage place.

027-528 Data Write-in Failure RAP

No space available in the specified storage place on the SMB scan data server.

Procedure

Check that the storage place has some space available.

027-529 Data Read Failure RAP

An error internal to SMB Library occurred.

Procedure

Do the same operation again. If this does not resolve the problem, contact our Customer Support Center.

027-530 Data Reading Failure RAP

[Overwrite prohibited] is selected as action to be taken when a duplicated SMB scan file name is detected.

Procedure

Select any option other than **[Overwrite prohibited]**.

027-531 Scan Filing Policy Injustice RAP

SMB scan filing policy is illegal (when Add selected).

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that the file format is not a multi-page one.

027-532 NEXTNAME.DAT file access error RAP

NEXTNAME.DAT file access error in SMB scan

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that NEXTNAME.DAT file is correct.

027-533 Internal Scan Error RAP

An internal error occurred in SMB scan.

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

027-543 Server Name Specification Error RAP

A specified SMB server (NetBIOS) name is wrong.

Procedure

Check that the SMB server name is correct.

027-547 SMB Protocol error 4-007 RAP

SMB protocol error. An invalid character was detected in the specified domain name.

Procedure

Check with the network administrator for the domain name.

Also, check if the domain name set on the machine is correct, using the following procedure:

1. Enter the System Administration mode, and select [System Settings] > [System Settings] > [Network Settings] > [Remote Authentication Server/Directory Service] > [SMB Server Settings].

2. Select the SMB server to check the domain name.

027-548 SMB Protocol error 4-008 RAP

SMB protocol error. An invalid character was detected in the specified domain name.

Procedure

Check with the network administrator for the domain name.

027-549 SMB Protocol error 4-009 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-564 SMB Protocol error 4-024 RAP

SMB protocol error. The SMB server was not found.

Procedure

Check if the connection between the authentication server and the machine has been established via a network. For example, check the following points:

-Network cable connection TCP/IP settings

-Connection via Port 137 (UDP)/Port 138 (UDP)/Port 139 (TCP)

027-565 SMB Protocol error 4-025 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-566 SMB Protocol error 4-026 RAP

SMB protocol error. SMB (TCP/IP) is not active.

Procedure

Check on CentreWare Internet Services that SMB (TCP/IP) is active on the **[Port Status]** screen of the **[Properties]** tab.

027-569 SMB (TCP/IP) is not Started RAP

SMB (TCP/IP) has not been started.

Procedure

Check on CentreWare Internet Services that SMB (TCP/IP) is active on the **[Port Status]** screen of the **[Properties]** tab.

027-572 SMB Protocol error 4-032 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-573 SMB Protocol error 4-033 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-574 SMB Protocol error 4-034 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-576 SMB Protocol error 4-036 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-578 SMB Protocol error 4-038 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-584 SMB Protocol error 4-044 RAP

SMB protocol error. The SMB server is in shared security mode.

Procedure

The SMB server may be on Windows 95, Windows 98, or Windows Me OS. Set the SMB server on an OS other than Windows 95, Windows 98, or Windows Me OS.

027-585 SMB Protocol error 4-045 RAP

SMB protocol error. Login disabled period.

Procedure

Check with the system administrator for the login-permitted period.

027-586 SMB Protocol error 4-046 RAP

SMB protocol error. The password has expired.

Procedure

Obtain a valid password from the system administrator.

027-587 SMB Protocol error 4-047 RAP

SMB protocol error. The password must be changed.

Procedure

Log in to Windows, and change the password. Ask the system administrator to change the setting so that you do not need to change the login password next time.

027-588 SMB Protocol error 4-048 RAP

SMB protocol error. The user is invalid.

Procedure

Ask the system administrator for validating the user.

027-589 SMB Protocol error 4-049 RAP

SMB protocol error. The user was locked out.

Procedure

Ask the system administrator for canceling the lockout status.

027-590 SMB Protocol error 4-050 RAP

SMB protocol error. The user was locked out.

Procedure

Obtain a valid user account from the system administrator. Or, ask the system administrator to extend the account expiration date.

027-591 SMB Protocol error 4-051 RAP

SMB protocol error. Users are restricted. A blank password is invalid.

Procedure

Set the password for the user.

027-599 SMB Protocol error 4-other codes RAP

SMB library internal error other than 27-547 to 27-579 has occurred.

Procedure

Operate again.

027-599 SMB Protocol error 4-other codes RAP

SMB library internal error other than 27-547 to 27-579 has occurred.

Procedure

Operate again.

027-706 Certificate RAP

The authentication certificate is not available.

Procedure

Obtain an authentication certificate.

027-707 Certificate Expired RAP

The authentication certificate expired.

Procedure

Obtain new authentication certificate.

027-708 Certificate Valid RAP

The authentication certificate is not credible.

Procedure

Check the authentication certificate information and retry.

027-709 Certificate Revoked RAP

The authentication certificate is revoked.

Procedure

Reestablish authentication certificate or obtain a new authentication certificate.

027-710 Invalid S/MIME Mail RAP

The Mail I/O received S/MIME (Secure/Multipurpose Internet Mail Extensions) mail even though S/MIME was set to **[Off]**.

Procedure

Enable S/MIME as required.

027-711 S/MIME Mail Certificate RAP

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail but could not obtain the sender certificate.

Procedure

Request for the mail to be resent. Check the setting of the S/MIME device as required.

027-712 S/MIME Mail Certificate RAP

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail with valid sender certificate but a signature verification error is detected.

Procedure

Request that mail to be resent with a valid sender certificate.

027-713 S/MIME Mail Altered RAP

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail but corrupted mail is detected.

Procedure

Check the sender as required.

027-714 S/MIME Mail Invalid RAP

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail with different sender mail address and signature mail address.

Procedure

Check the sender as required.

027-715 S/MIME Mail Certificate Registration RAP

The certificate supported by S/MIME (Secure/Multipurpose Internet Mail Extensions) encrypted mail is not registered in the device.

Procedure

Check that the certificate of the destination is registered in the certificate store of the device.

027-716 Email Signature RAP

The system detected that prohibited E-mails without a signature were received.

Procedure

Check the E-mail signatures and retry.

027-720 Extension Server Host RAP

Either the specified Server for the application interface cannot be found or the DNS could not be resolved.

Procedure

Check the connection to the destination Server for the application interface. Set the destination Server address for the application interface using IP address as required.

027-721 Extension Server RAP

The system attempted to connect to the application interface but the host replied that the application cannot be found.

Procedure

Check the host and then repeat the operation.

027-722 Extension Server Time-out RAP

The system attempted to connect to the application interface but failed due to a time-out.

Procedure

Check the host and then repeat the operation.

027-723 Extension Server Authentication RAP

The system attempted to connect to the application interface but authentication failed.

Procedure

Check the host and then repeat the operation.

027-724 Extension Server Access RAP

The application interface failed (for all causes other than service could not be found, time-out or authentication failure).

Procedure

Check the host and then repeat the operation.

027-725 Extension Server Operation RAP

Job operation of the application interface failed.

Procedure

Check the destination host of the application interface and then repeat the operation.

027-726 Extension Server State RAP

The status of the destination of the application interface is unknown.

Procedure

Check the destination host of the application interface and then repeat the operation.

027-727 Extension Server Parameters RAP

The parameter used for the application interface is incorrect.

Procedure

Check the destination host of the application interface and then repeat the operation.

027-728 Extension Server File RAP

The file used for the application interface is incorrect.

Procedure

Check the destination host of the application interface and then repeat the operation.

027-737 Template Server Read RAP

An error was received from the server for one of the following FTP commands: **[TYPE A]**, **[LIST]** and **[RETR]** when reading from the Job Template Pool Server.

Procedure

Check that **[Read Authorization]** is established for the storage destination server directory set as a resource.

027-739 Invalid Template Server Path RAP

An error was received from the Server for the FTP command [CWD] and the specified path of the Job Template Pool Server cannot be found.

Procedure

Set the resource of the storage destination path from the client PC using CentreWare.

027-740 Template Server Login RAP

Login to the FTP Server failed.

Procedure

Set the login name and password in the Job Template file storage destination.

From another PC connected to the network, check that login to the above account is possible.

From a client PC, set a login name and password as a resource using CenterWare.

027-741 Template Server Connect RAP

The system failed in obtaining data connection or list data while connecting to the Job Template Pool Server using the FTP command **[LIST]**.

Procedure

Connect the network cable from the machine correctly.

From the destination server, use **[ping]** to check that the machine can be **[seen]**.

Perform the **[ping]** test on the destination server from the PSW.

From a client PC, check that FTP connection to the destination server is possible.

027-742 HDD File System RAP

BSD-ON:16.1

The HDD is full when writing to a local HDD Job Template or when writing temporary work files.

Initial Actions

Power Off/On

Procedure

Replace the HDD (PL 11.2).

027-743 Template Server Install RAP

The address format of the Job Template Pool Server is incorrect.

Procedure

Set the parameters related to the Job Template Pool Server.

027-744 Template Address RAP

An error occurred while recalling the DNS Resolution Library.

Procedure

Check the connection to the DNS (Domain Name System). Check that the Job Template Pool Server domain name is registered in the DNS.

027-745 Template Address Server RAP

The DNS Server address is not set during address resolution.

Initial Actions

Power Off/On

Procedure

Set the DNS address. Check the Job Template Pool Server address using IP address.

027-746 Job Template Pool Server RAP

The port of the protocol specified in Job Template Pool Server settings is not running.

Procedure

Start up the port of the protocol (FTP client or SMB) specified in Job Template Pool Server settings.

027-750 Fax Document Inhibited RAP

iFAX Document E-mail and iFAX Transfer instructions were received when iFAX Document E-mail and iFAX Transfer is prohibited.

Procedure

Change the transfer setting to receive iFAX.

027-751 Job Template Analysis RAP

An error is detected when analyzing the given instruction.

Procedure

Verify the job set up selections.

027-752 Required User Entry Not Entered RAP

The instruction to start the job is issued but the required user entry not entered.

Procedure

Do not link the entry box to instructions that require user entry.

Set preset values for the items in the instruction requiring user entry.

027-753 Job Flow Service Disabled RAP

The system attempted to create a job to recall an external service while the Job Flow Service is invalid.

Procedure

Ask customer to enable the Job Flow Service.

027-754 Job Flow Service File Signature Mismatch RAP

Job flow service File signature setting mismatch.

Procedure

A mismatch of file signatures set by instructions

027-796 E-mail Not Printed RAP

BSD-ON:16.1

E-mails without attachments were received when the settings were set to [Do not print header and content].

Procedure

Ask customer to change the settings and repeat the operation.

Ask customer to check the remote machine.

If the problem continues, replace the FCB PWB (PL 11.3)

If the problem persists, replace the EMB PWB (PL 11.3)

If the problem persists, replace the ESS PWB (PL 11.1).

027-797 Invalid Output Destination RAP

BSD-ON:16.1

E-mail was received with E-mail to Box and E-mail to Fax not selected.

Procedure

Change the settings and repeat the operation.

If the problem persists check the remote machine.

Replace the FCB PWB (PL 11.3)

If the problem persists, replace the EMB PWB (PL 11.3)

If the problem persists, replace the ESS PWB (PL 11.2).

033-363 Fax Control RAP

BSD-ON:16.1/17.1

There was an ESS reset when the FCB PWB did not respond.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

033-710 Fax Control RAP

BSD-ON:16.1/17.1

The specified document does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-712 Fax Control RAP

BSD-ON:16.1

Memory is at maximum limit.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-713 Fax Control RAP

BSD-ON:16.1

The Chain-Link does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-715 Fax Control RAP

BSD-ON:16.1

The job cannot be processed with the host in the current status.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-716 Fax Control RAP

BSD-ON:16.1

The specified mailbox does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-717 Fax Control RAP

BSD-ON:16.1/17.1

Verification of the specified password failed.

Procedure

Perform following as required

1. Verify machine is connected to dedicated analog line (not ISDN).
2. Verify that no password is set.
Customer can perform following steps if system admin is accessible with code (five one's) 11111, or code is available.
 - a. Press the **Log In / Out** Button on the Control Panel and enter (five one's) 11111 using the number keypad and select **Confirm**.
 - b. Select **System Settings**.
 - c. Select **System Settings** again.
 - d. Select **FAX Mode Settings**.
 - e. Select **Local Terminal Settings**.
 - f. Check that **3. Machine Password** is (**not set**).
If it is (not set), select close/exit as required. Go to step 3.
If a password is set, go to step g.
 - g. Select **3. Machine Password** and select **Change Settings**.
 - h. Select **Backspace** as required to delete the password.
 - i. Select **Save**.
 - j. Select **Close/Exit** as required.
 - k. Select **Close** again.
 - l. Select **Close** again.
 - m. Power machine off and on to verify setting change.
3. Initialize NVM.

033-718 Fax Control RAP

BSD-ON:16.1/17.1

The document does not exist in the Polling Send box or the specified mailbox.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-719 Fax Control RAP

BSD-ON:16.1/17.1

The document does not exist in the Polling Send box or the specified mailbox.

Procedure

Ask customer to cancel the job and resend.

If the problem persists check the Fax line connection (telephone line).

If the problem persists check the electrical connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

If the problem persists perform GP 2 Fax Checkout.

033-721 Fax Control RAP

BSD-ON:16.1/17.1

The specified page cannot be created.

Procedure

Ask customer to cancel the job and resend.

033-722 Fax Control RAP

BSD-ON:16.1/17.1

A stored Fax job is cancelled.

Procedure

Ask customer to resend.

033-724 Fax Control RAP

BSD-ON:16.1/17.1

The upper limit for image data in a single transmission was exceeded.

Procedure

Ask customer to cancel the job and resend in smaller parts.

If the problem persists refer customer to User Guide to find information on lowering memory usage.

033-725 Fax Control RAP

BSD-ON:16.1/17.1

The HDD was full during Fax Receive, Format or report creation.

Initial Actions

Power Off/On

Procedure

Ask customer to request a re-resend.

033-726 Fax Control RAP

BSD-ON:16.1/17.1

Two-sided printing is not available when receiving Fax (mixed-size originals for fax).

Procedure

Ask customer to verify that two-sided printing is not available.

033-727 Fax Control RAP

BSD-ON:16.1/17.1

Rotation is not available when receiving Fax (insufficient memory).

Initial Actions

Power off/on

Procedure

Ask customer to request a re-resend.

033-728 Fax Control RAP

BSD-ON:16.1/17.1

Formatting for Fax Auto Printing was aborted because the instruction for Fax Manual Printing was given during the operation.

Procedure

Ask customer to cancel the job and resend.

033-731 Fax Control RAP

BSD-ON:16.1/17.1

When the system was waiting to receive a Fax job, a simultaneous request from the user to stop the job was received.

Procedure

Ask customer to request a re-resend.

033-732 Fax Control RAP

BSD-ON:16.1/17.1

Stored jobs are deleted in Forced Polling. As there was a print job during Forced Polling, the job was canceled.

Procedure

Ask customer to request a re-resend.

033-733 Fax Control RAP

BSD-ON:16.1/17.1

The job document number related to the job could not be obtained.

Procedure

Ask customer to cancel the job and resend.

033-734 Fax Control RAP

BSD-ON:16.1/17.1

Fax Print and Fax Auto Report were started at the same time.

Procedure

Ask customer to cancel the job and resend.

033-735 Fax Control RAP

BSD-ON:16.1/17.1

An error occurred in reserving fax receive memory.

Procedure

Ask customer to request a re-resend.

033-736 Fax Control RAP

BSD-ON:16.1/17.1

Fax was not transferred as the data capacity exceeded the threshold value while the Fax Transfer Prohibition Function was activated, based on the data capacity of the Internet Fax Off Ramp.

Procedure

Ask customer to cancel the job and resend.

033-737 Fax Control RAP

BSD-ON:16.1/17.1

The Fax Controller detected a failure and could not continue processing the job.

Initial Actions

Power off/on

Procedure

Ask customer to cancel the job and resend.

033-738 Fax Control RAP

BSD-ON:16.1/17.1

The Fax Controller detected an error in JBIG data during coding/decoding of the JBIG data.

Procedure

Ask customer to cancel the job and resend.

033-740 Fax Control RAP

BSD-ON:16.1/17.1

The user canceled immediate printing upon receiving.

Procedure

Ask customer to request a re-resend.

033-741 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-742 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-743 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-744 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-745 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-746 Fax Control RAP

BSD-ON:16.1/17.1

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Procedure

Ask customer to request a re-resend.

033-747 Fax Control RAP

BSD-ON:16.1/17.1

When requesting to start the service from the FCB PWB, the job could not be created due to causes such as job number overflow.

Procedure

Ask customer to request a re-resend.

033-749 Fax Control RAP

BSD-ON:16.1/17.1

During Fax formatting, the enlarged image data is larger than the reserved memory.

Initial Actions

Power off/on

Procedure

Ask customer to cancel the job and resend.

033-750 Fax Control RAP

BSD-ON:16.1/17.1

Enlargement of error free image data failed when image data was retrieved from the FCB PWB.

Procedure

Ask customer to cancel the job and resend.

033-751 Activity Report suspended RAP

When a communication management report occurred at a print prohibited time period, the machine just goes into sleep mode and the report output is postponed.

Procedure

No action is necessary as it will automatically restart after exiting the print prohibited time period.

033-755 Fax printing is canceled Fax RAP

Because Fax Service did not work, printing a fax document was cancelled.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

033-790 Fax Control RAP

BSD-ON:16.1/17.1

The FCB PWB Re-dial Wait Status was set without calculating the number of re-dial attempts.

Procedure

Ask customer to cancel the job and resend.

033-755 Fax Control RAP

BSD-ON:16.1/17.1

Fax printing is cancelled by the defect of the Fax Card.

Procedure

Ask customer to cancel the job and resend. If the problem continues, replace the Fax PWB (PL 11.3).

033-792 Fax Control RAP

BSD-ON:16.1/17.1

The RCC Service was immediately terminated.

Procedure

Ask customer to cancel the job and resend.

034-211 Fax Communication RAP

BSD-ON:16.1/17.1

Failure was detected on the Fax Option Slot 1 PWB.

Procedure

Check the installation of the PWB in Slot 1 on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-212 Fax Communication RAP

BSD-ON:16.1/17.1

Failure was detected on the Fax Option Slot 2 PWB.

Procedure

Check the installation of the PWB in Slot 2 on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-500 Fax Communication RAP

There is incorrect information in the dial data (Recipient telephone number).

Procedure

Ask customer to verify the Fax number and resend.

034-501 Fax Communication RAP

BSD-ON:16.1/17.1

The specified channel is not installed.

Procedure

Ask customer to verify that the specified channel is installed.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-505 Fax Communication RAP

Transmission exceeded memory capacity.

Procedure

Ask customer to cancel the job and resend.

034-506 Fax Communication RAP

A send error is detected in the Recipients Print Sets function when the receiving Fax does not support remote collating and copying.

Procedure

Ask customer to reconfigure the job and resend.

034-507 Fax Communication RAP

One of the following occurred.

- The password is incorrect.
- An error in the mailbox number is detected.
- No documents for polling are found.

Procedure

Ask customer to check if the password, mailbox number or document for valid polling.

Ask customer to cancel the job and then resend.

034-508 Fax Communication RAP

The Fax controller sent a reject command signal and stopped the transmission.

Procedure

Check the Fax line connection (telephone line).

Ask customer to allow a 5 minute recovery time and then resend.

034-509 Fax Communication RAP

The Fax controller stopped the transmission after receiving the invalid procedure signal from the receiving Fax.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

034-510 Fax Communication RAP

The Fax controller stopped the transmission after receiving the reject command signal from the receiving Fax.

Procedure

Check the Fax line connection (telephone line).

Ask customer to allow a 5 minute recovery time and then resend.

Ask customer to cancel the job and then resend.

034-511 Fax Communication RAP

The receiving Fax is unable to send.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and then resend.

034-512 Fax Communication RAP

An infinite loop was detected at the receiving Fax relay broadcast.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and then resend.

034-513 Fax Communication RAP

The Fax controller received an illegal command from the receiving Fax during remote maintenance.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

034-514 Fax Communication RAP

The Fax controller received a remote maintenance request from the receiving Fax but the Fax controller does not support this function.

Procedure

Check Fax setup.

Ask customer to cancel the job and then resend.

034-515 Fax Communication RAP

BSD-ON:16.1/17.1

The Fax controller received a DIS signal from the receiving Fax.

A DCS signal is received when this function is not supported.

An illegal command was received.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-519 Fax Communication RAP

The number of recipients exceeded the limit.

Procedure

Ask customer to reduce the number of recipients and then resend.

034-520 Fax Communication RAP

The number of services exceeded the limit.

Procedure

Ask customer to reduce the number of selections and then resend.

034-522 Fax Communication RAP

BSD-ON:16.1/17.1

There is no phone line available for manual transmission when manual transmission is disabled.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-523 Fax Communication RAP

The Fax controller was unable to accept the service when it is in a prohibited state.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

034-528 Fax Communication RAP

A manual transmission was requested during dialing.

Procedure

Ask customer to resend.

034-529 Fax Communication RAP

BSD-ON:16.1/17.1

When confirming and receiving print jobs, the jobs cannot be printed when the document size does not match the paper size.

Procedure

Ask customer to check if the paper tray guides are set correctly.

Ask customer to check the size of the paper loaded in the tray.

If the problem persists perform GP 2 Fax Checkout.

034-530 Fax Communication RAP

BSD-ON:16.1/17.1

DTMF I/F Time-out is detected when an operation did not occur within the specified time.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-550 Write to FaxCard-ROM error detection RAP

An error has occurred during the process of writing data to the FaxCard-ROM. (During DLD method).

Procedure

Retry job. If retry failed, replace the FaxCard-ROM and perform VerUP operation on the DLD method again.

034-702 Fax Communication RAP

BSD-ON:16.1/17.1

Unable the to initiate the call without the address specified, no destination specified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-703 Fax Communication RAP

BSD-ON:16.1/17.1

The D Channel was deleted from the network.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-704 Fax Communication RAP

BSD-ON:16.1/17.1

There is a ISDN D Channel error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-705 Fax Communication RAP

BSD-ON:16.1/17.1

Layer 1 is deactivated with the power on.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-706 Fax Communication RAP

BSD-ON:16.1/17.1

Layer 1 is deactivated with the power off.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-707 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-708 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-709 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-710 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-711 Fax Communication RAP

BSD-ON:16.1/17.1

Fax controller is waiting for a data link time-out.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-712 Fax Communication RAP

There is an internal processing error.

Procedure

Ask customer to cancel the job and resend.

034-713 Fax Communication RAP

There is a transmission time-out.

Procedure

Ask customer to cancel the job and resend.

034-714 Fax Communication RAP

There is a wait release time-out.

Procedure

Ask customer to cancel the job and resend.

034-715 Fax Communication RAP

There is a wait release complete time-out.

Procedure

Ask customer to cancel the job and resend.

034-716 Fax Communication RAP

There is a connection time-out.

Procedure

Ask customer to cancel the job and resend.

034-717 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-718 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-719 Fax Communication RAP

BSD-ON:16.1/17.1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-720 Fax Communication RAP

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-722 Fax Communication RAP

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-724 Fax Communication RAP

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-725 Fax Communication RAP

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-726 Fax Communication RAP

The I/F buffer is busy.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

034-729 Fax Communication RAP

The line was cut off when sending In-Channel PB.

Procedure

Ask customer to cancel the job and resend.

034-730 Fax Communication RAP

BSD-ON:16.1/17/1

There is a conflict between incoming and outgoing calls

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-731 Fax Communication RAP

BSD-ON:16.1/17/1

The network cutoff the Fax setup.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-732 Fax Communication RAP

BSD-ON:16.1/17/1

The network cutoff the Fax setup after a time-out.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-733 Fax Communication RAP

BSD-ON:16.1/17/1

There is a sequence error or message incompatibility.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-735 Fax Communication RAP

The connection is limited to D channel.

Procedure

Ask customer to cancel the job and resend.

034-736 Fax Communication RAP

The Fax network sent the wrong notice.

Procedure

Ask customer to cancel the job and resend.

034-737 Fax Communication RAP

BSD-ON:16.1/17.1

The control failed during call response.

Procedure

Replace the FCB PWB (PL 11.3)

If the problem persists replace the ESS PWB (PL 11.2).

034-738 Fax Communication RAP

BSD-ON:16.1/17.1

There is a Layer 1 start up or activation error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-739 Fax Communication RAP

BSD-ON:16.1/17.1

Layer 1 synchronization is lost.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-740 Fax Communication RAP

BSD-ON:16.1/17.1

There is a frame transmission error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-741 Fax Communication RAP

BSD-ON:16.1/17.1

There is a frame send error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-742 Fax Communication RAP

BSD-ON:16.1/17.1

A frame send error is detected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-743 Fax Communication RAP

BSD-ON:16.1/17.1

When sending frames, the DMA (Dynamic Memory Access) was abnormally terminated.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

034-744 Fax Communication RAP

An incorrect channel was terminated.

Procedure

Ask customer to cancel the job and resend.

034-745 Fax Communication RAP

BSD-ON:16.1/17.1

A call is initiated to the configured channel.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-746 Fax Communication RAP

BSD-ON:16.1/17.1

There are no usable lines.

Procedure

Ask customer to cancel the job and resend.

Check the Fax line connection (telephone line).

If the problem persists perform GP 2 Fax Checkout.

If the problem persists check the connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

034-747 Fax Communication RAP

BSD-ON:16.1/17.1

The network switching equipment is busy.

Procedure

Ask customer to cancel the job and resend.

Check the Fax line connection (telephone line).

If the problem persists perform GP 2 Fax Checkout.

If the problem persists check the connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

034-748 Fax Communication RAP

The specified line can not be used.

Procedure

Ask customer to cancel the job and resend.

034-749 Fax Communication RAP

There is a network busy error.

Procedure

Ask customer to cancel the job and resend.

034-750 Fax Communication RAP

There is an error on the network.

Procedure

Ask customer to cancel the job and resend.

034-751 Fax Communication RAP

There is a temporary error on the network.

Procedure

Ask customer to cancel the job and resend.

034-752 Fax Communication RAP

The receiving Fax is busy.

Procedure

Ask customer to cancel the job and resend.

034-753 Fax Communication RAP

The receiving Fax is not responding.

Procedure

Ask customer to cancel the job and resend.

034-754 Fax Communication RAP

The receiving Fax is not responding.

Procedure

Ask customer to cancel the job and resend.

034-755 Fax Communication RAP

The receiving Fax refused the call.

Procedure

Ask customer to cancel the job and resend.

034-756 Fax Communication RAP

There is a fault at the receiving Fax.

Procedure

Ask customer to cancel the job and resend.

034-757 Fax Communication RAP

There is a fault at the receiving Fax.

Procedure

Ask customer to cancel the job and resend.

034-758 Fax Communication RAP

The destination Fax number is invalid or incorrect.

Procedure

Ask customer verify the Fax number and resend.

034-759 Fax Communication RAP

There is a network error.

Procedure

Ask customer to cancel the job and resend.

034-760 Fax Communication RAP

There is no line or route to the destination.

Procedure

Ask customer to cancel the job and resend.

034-761 Fax Communication RAP

The Fax number format is invalid.

Procedure

Ask customer verify the Fax number and resend.

034-762 Fax Communication RAP

There is a problem with the destination.

Procedure

Ask customer to cancel the job and resend.

034-763 Fax Communication RAP

Fax communication with the receiving Fax is not authorized.

Procedure

Ask customer to verify the Fax number and resend.

034-764 Fax Communication RAP

BSD-ON:16.117.1

Communication capability is not configured.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-765 Fax Communication RAP

BSD-ON:16.1/17.1

There is a feature limit error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-766 Fax Communication RAP

BSD-ON:16.1/17.1

The selected communication is not implemented.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-767 Fax Communication RAP

BSD-ON:16.1/17.1

The selected mode is not implemented.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-768 Fax Communication RAP

BSD-ON:16.1/17.1

Restricted digital information is insufficient for Fax operation.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-769 Fax Communication RAP

BSD-ON:16.1/17.1

There is a feature error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-770 Fax Communication RAP

BSD-ON:16.1/17.1

There is a reply and response to status query.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-771 Fax Communication RAP

BSD-ON:16.1/17.1

Access information was discarded.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-772 Fax Communication RAP

There is an internal connection error.

Procedure

Ask customer to cancel the job and resend.

034-773 Fax Communication RAP

BSD-ON:16.1/17.1

An invalid Fax number was dialed.

Procedure

Ask customer to verify the Fax number and resend.

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-774 Fax Communication RAP

BSD-ON:16.1/17.1

An invalid line or channel was specified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-775 Fax Communication RAP

An unspecified invalid message was received.

Procedure

Ask customer to cancel the job and resend.

034-776 Fax Communication RAP

A required information element is missing.

Procedure

Ask customer to cancel the job and resend.

034-777 Fax Communication RAP

An undefined type of message was received.

Procedure

Ask customer to cancel the job and resend.

034-778 Fax Communication RAP

An incorrect message was received.

Procedure

Ask customer to cancel the job and resend.

034-779 Fax Communication RAP

No information was received, or the information is not defined.

Procedure

Ask customer to cancel the job and resend.

034-780 Fax Communication RAP

Invalid information was received.

Procedure

Ask customer to cancel the job and resend.

034-781 Fax Communication RAP

A received message is not compatible with the call status.

Procedure

Ask customer to cancel the job and resend.

034-782 Fax Communication RAP

An error cleared due to time-out.

Procedure

Ask customer to cancel the job and resend.

034-783 Fax Communication RAP

An unspecified protocol error occurred.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-784 Fax Communication RAP

The destination Fax number changed.

Procedure

Ask customer to verify the Fax number and resend.

034-785 Fax Communication RAP

An incompatible destination error was received.

Procedure

Ask customer to verify the Fax number and resend.

034-786 Fax Communication RAP

BSD-ON:16.1/17.1

The call identity is not in use.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-787 Fax Communication RAP

BSD-ON:16.1/17.1

The call identity is in use.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists replace the FCB PWB (PL 11.3).

034-788 Fax Communication RAP

BSD-ON:16.1/17.1

The cause for a Fax failure is not identified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-789 Fax Communication RAP

BSD-ON:16.1/17.1

There is a presentation of an illegal event.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-790 Fax Communication Channel 0 RAP

BSD-ON:16.1/17.1

Channel 0 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-791 Fax Communication Channel 1 RAP

BSD-ON:16.1/17.1

Channel 1 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-792 Fax Communication Channel 2 RAP

BSD-ON:16.1/17.1

Channel 2 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-793 Fax Communication Channel 3 RAP

BSD-ON:16.1/17.1

Channel 3 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-794 Fax Communication Channel 4 RAP

BSD-ON:16.1/17.1

Channel 4 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-795 Fax Communication Channel 5 RAP

BSD-ON:16.1/17.1

Channel 5 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists check the connections on the FCB PWB.

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

034-796 Fax Communication Channel RAP

Incorrect information in the dial data (Recipient Telephone Number).

Procedure

Ask customer to verify the Fax number and resend.

035-500 Fax Protocol RAP

There is an internal fax protocol error during preparation to transmit the fax.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

035-550 Write to FaxG3-ROM error detection RAP

An error has occurred during the process of writing data to the FaxG3-ROM. (During DLD method).

Procedure

Retry job. If retry failed, replace the FaxG3-ROM and perform VerUP operation on the DLD method again.

035-700 Fax Protocol RAP

BSD-ON:16.1/17.1

A modem error occurred.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists perform GP 2 Fax Checkout.

If the problem persists replace the FCB PWB (PL 11.3).

035-701 Fax Protocol RAP

BSD-ON:16.1/17.1

The disconnect signal was not received from the receiving Fax after transmission was not established, or there is a time-out.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-702 Fax Protocol RAP

BSD-ON:16.1/17.1

For the NSS/DTC (Non-Standard Setup/Digital Transmit Command) signal sent from the Fax controller, the DCN (Disconnect) signal was received from the receiving Fax, or transmission was rejected by the Select Receive function on the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

Check the connections on the FCB PWB (PL 11.3).

035-703 Fax Protocol RAP

BSD-ON:16.1/17.1

DCN (Distributed Computer Network) signal was received from the receiving Fax when sending in Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-704 Fax Protocol RAP

BSD-ON:16.1/17.1

Polling could not be done because the receiving Fax does not support Polling Send function, or the stored document/original was not set.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-705 Fax Protocol RAP

BSD-ON:16.1/17.1

The NSS (Non-Standard Facilities Set-up) signal was sent out three times but there was no response from the receiving Fax, or the DCN (Disconnect) signal was received.

Resending of DCS/NSS (Digital Command Signal/Non-Standard Facilities Set-up) signal exceeded the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-706 Fax Protocol RAP

BSD-ON:16.1/17.1

When sending the NSS (Non-Standard Facilities Set-up) signal, fall back could not be done or a fall back error occurred (In User/Auto Resend Standby).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-707 Fax Protocol RAP

BSD-ON:16.1/17.1

The password does not exist or it was inconsistent.

Transmission was received from another party other than the selected party for transmission.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-708 Fax Protocol RAP

BSD-ON:16.1/17.1

The post command was sent out three times but there was no response from the receiving Fax, or a DCN (Disconnect) signal was received.

Post messages resend over the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-709 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller received a RTN (Retrain Negative) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

If the problem persists reduce the send speed and then repeat the operation.

035-710 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller received a PIN (Procedure Interrupt Negative) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-711 Fax Protocol RAP

BSD-ON:16.1/17.1

DCN (Disconnect) signal or an invalid command was received from the receiving Fax when sending in Phase-D.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-712 Fax Protocol RAP

BSD-ON:16.1/17.1

A NSC (Non-Standard Facilities Command) signal resulted in one of the following:

- The password was incorrect.
- Stored documents/originals for polling was not set on the receiving Fax.
- Document jam on the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-713 Fax Protocol RAP

BSD-ON:16.1/17.1

No response signal was returned from the receiving Fax after the FTT (Failure To Train) signal was sent.

Procedure

Fax phone line may also carry a DSL (Digital Subscriber Line) internet signal, but this is not supported by the hardware. Fax requires an analog only phone line (can be used for voice only).

035-714 Fax Protocol RAP

BSD-ON:16.1/17.1

A DCN (Disconnect) signal was returned from the receiving Fax to the NSC/DTC (Non-Standard Facilities Command/Digital Transmit Command) signal sent from the Fax controller for one of the following:

- Incorrect password
- No originals for polling
- Paper jam on the receiving Fax

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-715 Fax Protocol RAP

BSD-ON:16.1/17.1

A password mismatch interrupted polling.

Procedure

Ask customer to cancel the job, verify any passwords, and resend.

035-716 Fax Protocol RAP

BSD-ON:16.1/17.1

There is a time out or there is no post message.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-717 Fax Protocol RAP

BSD-ON:16.1/17.1

An RTN (Retrain Negative) signal was sent to the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

If the problem persists reduce the send speed and then repeat the operation.

035-718 Fax Protocol RAP

BSD-ON:16.1/17.1

When no data was sent from the receiving Fax, or after receiving more than 1 page manually, the receiving Fax changed the resolution or the document size and the Fax controller returned to Phase-B (pre-message processing), but no data was sent from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-719 Fax Protocol RAP

BSD-ON:16.1/17.1

A busy tone was detected in receive Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-720 Fax Protocol RAP

BSD-ON:16.1/17.1

The receiving Fax has one of the following problems:

- A compatibility problem
- Can not receive the DIS/NSF/NSC/DTC (Digital Identification/Non-Standard Facilities/Non-Standard Facilities Command/Digital Transmit Command) signals
- Memory is full

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-721 Fax Protocol RAP

BSD-ON:16.1/17.1

DCN (Disconnect) signal was received from the receiving Fax when receiving in Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-722 Fax Protocol RAP

BSD-ON:16.1/17.1

The frame length exceeded 3.45sec in 300bps command/response.

Procedure

Ask customer to cancel the job and resend.

035-723 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller could not receive the CD (Collision Detection) signal within 3mins after receiving the signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-724 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller sent a FTT (Failure To Train) signal after receiving a DCN (Disconnect) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-725 Fax Protocol RAP

BSD-ON:16.1/17.1

The receiving Fax does not support the relay broadcast and mailbox functions.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend. If the resend fails Fax transmission cannot be used and another method of transmitting the data is required.

035-726 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller did not receive the TRN (Train) signal within 10 seconds after Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-727 Fax Protocol RAP

BSD-ON:16.1/17.1

More than 50% of decoding errors were detected when 148mm of G3 image information was received in Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-728 Fax Protocol RAP

BSD-ON:16.1/17.1

One of the following occurred:

- The Fax controller did not detect a normal line within 1 minute after it had begun to receive G3 image information.
- The Fax controller did not detect the EOL (End of Line) signal within 13sec (default) when receiving.
- The Fax controller could not receive the EOL (End of Line) signal within 10sec in Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-729 Fax Protocol RAP

BSD-ON:16.1/17.1

There is a time-out drop-out when receiving the image information.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-730 Fax Protocol RAP

BSD-ON:16.1/17.1

During training or when sending a command in high speed in Phase-C (message transmission), an error is detected when the modem is not turned on when a HDLC (High Level Data Link Control) signal was sent.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-731 Fax Protocol RAP

BSD-ON:16.1/17.1

An error was detected during V.8 internal Fax attributes selections.

Procedure

Ask customer to cancel the job and resend.

035-732 Fax Protocol RAP

BSD-ON:16.1/17.1

The V.34 CD (Collision Detection) is off.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-733 Fax Protocol RAP

BSD-ON:16.1/17.1

There is an error in V.34 mode (33.6 KBPS rate).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-734 Fax Protocol RAP

BSD-ON:16.1/17.1

During Polling Receive, there was no stored documents/originals for polling, or the polling operation/settings were missed during V.8 internal Fax attributes selections.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-735 Fax Protocol RAP

BSD-ON:16.1/17.1

During Polling Send, there was no stored documents/originals for polling or the polling operation/settings was missed on the Fax controller during V.8 internal Fax attributes selections.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-736 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller received the DCN (Disconnect) signal from the receiving Fax, or no response was returned from the receiving Fax to the CTC (Continue To Correct) signal sent by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-737 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller received the DCN (Disconnect) signal, or no response was returned from the receiving Fax to the EOR (End Of Retransmission) signal sent by the Fax controller.

Resending of CTC/EOR (Continue To Correct/End Of Retransmission) signal exceeded the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-738 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller received the DCN (Disconnect) signal from the receiving Fax, or no response was returned from the receiving Fax to the RR (Receive Ready) signal sent by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-739 Fax Protocol RAP

BSD-ON:16.1/17.1

There is a time-out after initial 2 way transmissions are established.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-740 Fax Protocol RAP

BSD-ON:16.1/17.1

After the EOR (End Of Re-transmission) signal was sent, transmission stopped or the EOR-Quit signal was sent from the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-741 Fax Protocol RAP

BSD-ON:16.1/17.1

There is a time-out during Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-742 Fax Protocol RAP

BSD-ON:16.1/17.1

After the EOR (End of Re-transmission) signal was sent, the ERR (Response For End Of Transmission) signal was returned, or the EOR-Q (End Of Re-transmission-Quit) signal was received by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-743 Fax Protocol RAP

BSD-ON:16.1/17.1

The receiving Fax can not receive a SUB (Sub-Address).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-744 Fax Protocol RAP

BSD-ON:16.1/17.1

The receiving Fax can not receive a password.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-745 Fax Protocol RAP

BSD-ON:16.1/17.1

The receiving Fax does not support the SEP (Separator) function.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-746 Fax Protocol RAP

BSD-ON:16.1/17.1

The Fax controller detected one of the following:

- No DT1 signal before dialing.
- A BT1/BT2 signal before dialing.
- A CT1 signal before dialing (a state in which PBX is busy).
- A CT2 signal before dialing.
- No DT1 signal during dialing (This could happen when an outside line was used without any signal sending from the PBX).
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- No 2nd DT2 signal during dialing.
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- No third DT3 signal during dialing.
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- A BT1/BT2 signal after dialing.
- A CT1/CT2 signal after dialing.
- No DT signal from the PBX before dialing.
- A BT signal from the PBX before dialing.
- A CT signal from the PBX before dialing.
- A BT signal from the PBX after dialing.
- A CT signal from the PBX after dialing.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists perform GP 2 Fax Checkout.

If the connections are good then there is a problem with the customers PBX (Private Branch Exchange) line or the receiving fax.

035-747 Fax Protocol RAP

BSD-ON:16.1/17.1

The operation was stopped during dialing by using the Stop button.

Procedure

The customer terminated the transmission. Ask customer to resend the job.

035-748 Fax Protocol RAP

BSD-ON:16.1/17.1

The operation was stopped during transmission by using the Stop button.

Procedure

The customer terminated the transmission. Ask customer to resend the job.

035-749 Fax Protocol RAP

BSD-ON:16.1/17.1

After dialing, the Fax controller did not receive the CED/DIS (Called Station Identification/Digital Identification Signal) from the receiving Fax, causing a transmission error or re-dial to exceed the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-750 Fax Protocol RAP

BSD-ON:16.1/17.1

The machine power failed during transmission, causing an error.

Procedure

Ask customer to cancel the job and resend.

035-751 Fax Protocol RAP

BSD-ON:16.1/17.1

The operation was stopped during document sending by using the Stop button.

Procedure

Ask customer to cancel the job and resend.

035-752 Fax Protocol RAP

BSD-ON:16.1/17.1

The number of jobs exceeded the limit.

Procedure

Ask customer to cancel the job and resend in separate parts.

035-762 Fax Protocol RAP

BSD-ON:16.1/17.1

There was a break in the ISDN (Integrated Services Digital Network) transmission.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3).

Ask customer to cancel the job and resend.

036-500 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-501 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-502 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-503 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-504 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-505 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-506 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-507 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-508 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-509 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-510 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-511 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-512 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-513 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-514 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-515 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-516 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-517 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-518 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-519 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-520 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-521 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-522 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-523 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-524 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-525 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-526 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-527 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-528 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-529 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-530 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-531 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-532 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-533 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-534 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-535 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-536 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-537 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-538 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-539 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-540 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-541 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-542 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-550 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

Procedure

Perform GP 2 Fax Checkout.

036-700 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-701 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-702 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-703 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-704 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-705 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-706 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-707 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-708 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-709 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-710 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-711 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-712 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-713 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-714 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-715 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-716 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-717 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-718 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-719 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-720 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-721 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-722 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-723 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-724 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-725 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-726 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-727 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-728 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-729 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-730 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-731 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-732 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-733 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-734 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-735 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-736 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-737 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-738 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-739 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-740 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-741 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-742 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-743 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-744 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-745 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-746 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-747 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-748 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-749 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-750 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-751 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-752 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-753 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-754 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-755 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-756 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-757 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-758 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-759 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-760 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-761 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-762 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-763 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-764 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-765 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-766 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-767 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-768 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-769 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-770 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-771 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-772 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-773 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-774 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-775 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-776 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-777 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-778 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-779 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-780 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-781 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-782 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-783 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-784 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-785 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-786 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-787 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-788 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-789 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-790 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-791 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-792 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-793 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-794 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-795 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-796 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-797 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-798 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-799 Fax Parameter RAP

BSD-ON:17.1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 2 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

041-310 IM Logic Failure

There is an IOT Manager controller software error.

Procedure

Ensure that the MCU PWB E-PROM is secure on the MCU PWB (PL 11.1). Check the connection of each MCU PWB electrical connector. **The connectors are connected correctly.**

Y N
| Secure the connectors.

Turn on the power again. **[041-310] persists.**

Y N
| Return to Service Call Procedures.

Perform GP 10 Loading and Upgrading Software for the IOT. **[041-310] persists.**

Y N
| Return to Service Call Procedures.

Replace the MCU PWB (PL 11.1).

041-311 MCU PWB Fuse F2

Fuse F2 on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on BSD's 1.2A, 6.5 and 7.9.
- If no problems are found replace the MCU PWB (PL 11.1).

041-312 MCU PWB Fuse F1

Fuse F1 on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on the following BSD's; 1.2A, 7.7, 8.1, 8.2, 8.7, 9.4B, 9.6, 10.3, 10.5, 10.7.
- If no problems are found replace the MCU PWB (PL 11.1).

041-314 MCU PWB Fuse FA

Fuse FA on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on the following BSD's; 1.2A and related BSD's for +24 VDC distribution and Wire Net +24VDC-1 to Wire Net +24VDC-6.
- If no problems are found replace the MCU PWB (PL 11.1).

041-319 MCU PWB Interlock Fuse F4

Fuse F4 on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on BSD's 1.2A, 9.2, 9.4A, 9.5, 9.7, 4.1A.
- If no problems are found replace the MCU PWB (PL 11.1).

041-320 MCU PWB Interlock Fuse F3

Fuse F3 on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on BSD 1.2A, and 9.3.
- If no problems are found replace the MCU PWB (PL 11.1).

041-323 MCU PWB Fuse F5

Fuse F5 on the MCU PWB has an open circuit failure.

Procedure

Perform the following:

- Check the connection of each MCU PWB electrical connector.
- If any service was performed immediately before the fuse failure check that no wire damage was caused in the areas that were serviced.
- Check the harness wires for damage on the following BSD's; 1.2A, 4.1A, 6.5, 7.7, 7.9, 8.1, 8.2, 8.7, 9.2, 9.3, 9.4A, 9.4B, 9.5, 9.6, 10.3, 10.5, 10.7.
- If no problems are found replace the MCU PWB (PL 11.1).

041-340 MCU PWB Data RAP

BSD-ON:3.1

There is a MCU PWB Data failure. Data storage address corruption occurred.

Initial Actions

Ensure that the MCU PWB E-PROM is secure on the MCU PWB (PL 11.1).

Ensure that the last software has been loaded.

Procedure

Check the connection of each MCU PWB electrical connector. **The connectors are connected correctly.**

Y N

| Secure the connectors.

Turn on the power again. **[041-340] persists.**

Y N

| Return to Service Call Procedures.

Initialize NVM. **[041-340] persists.**

Y N

| Return to Service Call Procedures.

Reload software. If the problem persists, replace the MCU PWB (PL 11.1).

041-341 MCU PWB Access RAP

BSD-ON:3.1

There is a MCU PWB Access failure. Read check values do not match write check values.

Initial Actions

Ensure that the MCU PWB E-PROM is secure on the MCU PWB.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N
| Secure the connectors.

Turn on the power again. **[041-341] persists.**

Y N
| Return to Service Call Procedures.

Initialize NVM. **[041-341] persists.**

Y N
| Return to Service Call Procedures.

Replace the MCU PWB (PL 11.1).

041-342 MCU PWB Buffer RAP

BSD-ON:3.1

There is a MCU PWB Buffer full or overflow problem.

Initial Actions

Ensure that the MCU PWB E-PROM is secure on the MCU PWB (PL 11.1).

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N
| Secure the connectors.

Turn on the power again. **[041-342] persists.**

Y N
| Return to Service Call Procedures.

Replace the MCU PWB (PL 11.1).

041-500

I/IOT Memory (DDR DIMM) Fault.

Procedure

Ensure that the DIMM's are installed correctly.

If the problem continues, replace the DIMM's (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2)

041-501

IOT NVM Memory (DDR DIMM) Fault.

Procedure

Ensure that the DIMM's are installed correctly.

If the problem continues, replace the DIMM's (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2)

042-311 Auger Motor Failure RAP

BSD-ON:4.1B

The Auger Motor is not rotating at the specified speed.

Initial Actions

- Power OFF/ON

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control [042-003 Auger Motor ON]. **The Auger Motor can be heard.**

Y N
|
Go to the BSD 4.2B and troubleshoot the circuit.

Check the installation of the Drum Drive Assembly (PL 1.1). **The Drum Drive Assembly is installed correctly.**

Y N
|
Install the Drum Drive Assembly correctly.

Check the wire between J410 and J215 for an open circuit or a short circuit (BSD 4.2B). **The wires are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Manually rotate the Auger Motor rotor. **It rotates smoothly.**

Y N
|
Check for foreign substances that are interfering with operation or installation failure. **Foreign substances or installation failure are found.**

Y N
|
Replace the Drum Drive Assembly (PL 1.1).

Remove the foreign substances that are interfering with operation and correct the installation failure.

Replace the Drum Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

042-313 Rear Cooling Fan Failure RAP

BSD-ON:13.1

The Rear Cooling Fan Failed.

Procedure

Execute Component Control [042-006 Rear Fan ON]. **The Rear Fan rotates.**

Y N
|
Check connectors J 409 on the MCU PWB and J 224 on the Rear Fan (PL 11.1). **The connector or connected.**

Y N
|
Connect connector.

Check the wires between J 409 on the MCU PWB and J 224 on the Rear Fan for an open or short circuit. **The wires are OK.**

Y N
|
Repair or replace as needed.

Check J 409-15A (+) and J 409-18A (-) for +24VDC **+24VDC is present.**

Y N
|
Troubleshoot the +24VDC circuit (BSD 1.2).

Replace the Rear Fan (PL 11.1).

Check for obstructions in the area of the Rear Fan (PL 11.1).

042-324 Drum Motor Drive Failure RAP

BSD-ON:4.2A

The Drum Motor is not rotating at the specified speed.

Initial Actions

- Power OFF/ON
- Replace the Xero/Developer Cartridge (PL 4.1) and the Fuser Unit (PL 7.1).

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control [091-004 Drum Motor ON]. **The Drum Motor can be heard.**

Y N

Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the installation of the Main Drive Assembly (PL 1.1). **The Main Drive Assembly is installed correctly.**

Y N

Install the Main Drive Assembly (PL 1.1) correctly.

Check the wire between J409 and J211 for an open circuit or a short circuit (BSD 4.2A). **The wires are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Manually rotate the Main Motor rotor. **It rotates smoothly.**

Y N

Check for foreign substances that are interfering with operation or installation failure. **Foreign substances or installation failure are found.**

Y N

Replace the Main Drive Assembly (PL 1.1).

Remove the foreign substances that are interfering with operation and correct the installation failure.

Replace the Main Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

042-325 Main Motor Failure RAP

BSD-ON:4.1B

The Main Motor is not rotating at the specified speed.

Initial Actions

- Power OFF/ON
- Reload the Xero/Developer Cartridge (PL 4.1) and the Fuser Unit (PL 7.1).

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control [042-001 Main Motor ON]. **The Main Motor can be heard.**

Y N

Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the installation of the Main Drive Assembly (PL 1.1). **The Main Drive Assembly is installed correctly.**

Y N

Install the Main Drive Assembly correctly.

Check the wire between J410 and J214 for an open circuit or a short circuit (BSD 4.1B). **The wires are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Manually rotate the Main Motor rotor. **It rotates smoothly.**

Y N

Check for foreign substances that are interfering with operation or installation failure. **Foreign substances or installation failure are found.**

Y N

Replace the Main Drive Assembly (PL 1.1).

Remove the foreign substances that are interfering with operation and correct the installation failure.

Replace the Main Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

042-400 Filter Life RAP

The Filter Failed.

Procedure

Replace the Filter (PL 12.2).

|

|

|

|

|

045-310 Image RAP

BSD-ON:6.2

The IIT image is not ready for transfer.

Procedure

Check the connectors and cables between the IIT/IPS PWB, CCD PWB, and the ESS PWB.

The connectors and cables are OK.

Y N
| Repair or replace as required (PL 13.3, PL 13.4, PL 11.2)

Power OFF and then ON. **The problem continues.**

Y N
| Rerun the job.

Replace the IIT/IPS PWB (PL 13.3).

045-311 Controller Communications RAP

BSD-ON:6.2

There is a Controller communications fault.

Procedure

Check the following PWBs for loose connections and/or defective cables:

- Printer PWB (PL 11.2)
- ESS PWB (PL 11.2).
- MCU PWB (PL 11.1).

Repair and/or replace as required.

045-321 Marking Panel RAP

BSD-ON:6.2

There is an internal marking panel control error.

Procedure

Check the connectors and cables between the IIT/IPS PWB, CCD PWB, and the ESS PWB.

The connectors and cables are OK.

Y N
| Repair or replace as required (PL 13.3, PL 13.4, PL 11.2)

Power OFF and then ON. **The problem continues.**

Y N
| Rerun the job.

Replace the IIT/IPS PWB (PL 13.3). If the problem continues, replace the ROS (PL 3.1).

045-322 Marking Pitch RAP

BSD-ON:6.4/6.5

There is an internal marking pitch control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y N
| Repair replace as required (PL 11.1, PL 3.1).

Replace the ROS Unit (PL 3.1). If the problem continues, replace the MCU PWB (PL 11.1).

045-323 Marking Y RAP

BSD-ON:6.4/6.5

There is a marking Y plate control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-324 Marking M RAP

BSD-ON:6.4/6.5

There is a marking M plate control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-325 Marking C RAP

BSD-ON:6.4/6.5

There is a marking C plate control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-326 Marking K RAP

BSD-ON:6.4/6.5

There is a marking K plate control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-327 Marking Y RAP

BSD-ON:6.4/6.5

There is a marking Y plate error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-328 Marking M RAP

BSD-ON:6.4/6.5

There is a marking M plate error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-329 Marking C RAP

BSD-ON:6.4/6.5

There is a marking C plate error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-330 Marking K RAP

BSD-ON:6.4/6.5

There is a marking K plate error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-331 Marking Reject RAP

BSD-ON:6.4/6.5

There is a marking reject control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-332 Marking Reject RAP

BSD-ON:6.4/6.5

There is a marking reject control error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-333 Marking Communication RAP

BSD-ON:6.4/6.5

There is a marking module communication error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y **N**
| Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-334 Marking Drive Communication RAP

BSD-ON:6.4/6.5

There is a marking/drive communication error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y **N**
| Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-335 Marking Fuser Communication RAP

BSD-ON:

There is a marking/fuser communication error.

Procedure

Check the connections and wiring between the MCU PWB and the Fuser. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the Fuser (PL 5.1). If the problem continues, replace the MCU PWB (PL 11.1).

045-336 Marking ROS Communication RAP

BSD-ON:6.4/6.5

There is a marking/ROS communication ROS error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y	N
	Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

045-337 Marking Imaging Communication RAP

BSD-ON:6.4/6.5

There is a marking/imaging communication error.

Procedure

Check the connections and wiring between the MCU PWB and the ROS Unit. **The connections and wiring are OK.**

Y N

Repair replace as required (PL 11.1, PL 3.1).

Replace the MCU PWB (PL 11.1). If the problem continues, replace the ROS Unit (PL 3.1).

047-211 OCT 2 RAP

BSD-ON:10.7

the OCT Home Sensor 2 did not actuate in time after the OCT2 Motor energized.

Procedure

Manually operate the offset mechanism. **The offset mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation (PL 8.4).

Execute Component Control [077-103 OCT Home Sensor 2]. Actuate the OCT Home Sensor 2 with paper. **The display changes.**

Y N

Check the connections of J111, P/J606, J422. **Connections are connected correctly.**

Y N

Connect connectors

Check the wire between J111 and J422 for an open circuit or a short circuit (BSD 10.7 Flag 1/Flag 2). **The wires are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the OCT Home Sensor 2 (PL 8.4).

Alternately execute Component Control [077-011 Offset Motor 2 (CW)] and Component Control [077-012 Offset Motor 2 (CCW)]. **The Offset Motor 2 energizes.**

Y N

Check the connections of P/J207, P/J606 and J/421. **Connections are connected correctly.**

Y N

Connect connectors

Check the wire between J421 and P207 for an open circuit or a short circuit (BSD 10.7 Flag 3). **The wires are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Offset Motor 2 between J207-1 (COM) and each point of J207-2/3/4/5 (BSD 10.7 Flag 3). **The resistance is approx. 100Ohm.**

Y N

Replace the Offset Motor 2 (PL 8.4).

Measure the voltage between the Exit PWB P421-1 (+) and GND (-) (BSD 10.7 Flag 3). **The voltage is approx. +24VDC.**

Y N

Go to BSD 1.2 and troubleshoot the +24VDC circuit.

Replace the Offset Motor 2 (PL 8.4) If the problem persists, replace the MCU PWB (PL 11.1).

Replace the MCUPWB (PL 11.1).

047-214 MCU Duplex Module RAP

BSD-ON:1.2/3.2

Communication error occurred between the MCU PWB and the Duplex Module.

Initial Actions

Power OFF the machine. Disconnect the Tray Module and the Finisher (if the machine has one). Power ON the machine. If the problem is resolved, go to RAP 077-131 or 077-307 and troubleshoot the Duplex Module.

Procedure

Check the connection of each MCU PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Check the connection of each Duplex Module PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Check the wire between J417 and J540 for an open circuit or a short circuit (BSD 1.2 Flag 2 / BSD 3.3 Flag 3/Flag 4). **The wire between J417 and J540 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P417-A1 (+) and GND (-) (BSD 1.2 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 11.1).

Replace the Duplex PWB (PL 10.1) If the problem persists, replace the MCU PWB (PL 11.1).

047-216 MCU Finisher Communication RAP

BSD-ON:3.4

A communication error occurred between the MCU PWB and the Finisher.

Initial Actions

Check the Finisher harness connections to the IOT.

Procedure

Check the connection of each MCU PWB connector. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 1/ Flag 2). **The wire between J416 and J8843 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

061-320 ROS Motor RAP

BSD-ON: 6.4/6.5

- The ROS Motor rotation speed does not reach the specified value within the specified time after the ROS Motor started rotating.
- The light intensity of the LD1 does not reach the specified value.

Procedure

Check the connections of P/J401 on the MCU PWB and P/J140 on the ROS Unit. **Connections are connected correctly.**

Y N
|
Connect P/J401 and P/J140.

Check the connections of P/J219 and P/J618. **P/J219 and P/J618 are connected correctly.**

Y N
|
Connect P/J219 and P/J618.

Check the wire between J401 and J140 for an open circuit or a short circuit (BSD 6.4 Flag 1/Flag 2). **The wire between J401 and J140 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Check the wire between J401 and J130 for an open circuit or a short circuit (BSD 6.5 Flag 1). **The wire between J401 and J130 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Execute Component Control[061-200 ROS MOTOR ON]. **The ROS Motor can be heard.**

Y N
|
Measure the voltage between the MCU PWB P401-B7 (+) and GND (-) (BSD 6.5 Flag 2). **The voltage is +24VDC.**

Y N
|
Measure the voltage between the MCU PWB P400-1 (+) and GND (-) (BSD 1.2 Flag 1). **The voltage is +24VDC.**

Y N
|
Measure the voltage between the Power Unit P526-4 (+) and GND (-) (BSD 1.2 Flag 1). **The voltage is +24VDC.**

Y N
|
Replace the Power Unit (PL 11.1).

|
Repair the open circuit between J526 and J400.

|
Replace the MCU PWB (PL 11.1).

|
Replace the ROS Unit (PL 3.1) If the problem persists, replace the MCU PWB (PL 11.1).

Install the Xero/Developer Cartridge securely.

Measure the voltage between the MCU PWB P401-B2 (+) and GND (-) (BSD 6.4). **The voltage is +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Replace the ROS Unit (PL 3.1) If the problem persists, replace the MCU PWB (PL 11.1).

061-325 SOS RAP

BSD-ON: 6.4

The light intensity of the LD2 does not reach the specified value.

Procedure

Check the connections of P/J401 on the MCU PWB and P/J140 on the ROS Unit. **Connections are connected correctly.**

Y N
| Connect P/J401 and P/J140.

Check the wires between J401 and J140 for an open circuit or a short circuit (BSD 6.4 Flag 1/Flag 2). **The wires are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the ROS Unit (PL 3.1)

If the problem persists, replace the MCU PWB (PL 11.1).

061-333 ROS Fan defect RAP

BSD-ON: 6.5

ROS Fan rotation failure.

Initial Actions

Clean the fan.

Procedure

Execute Component Control[061-002 ROS FAN ON]. Check for noise in the rotation of the ROS Fan (PL 3.1). **The ROS Fan is rotating.**

Y N
| Measure the voltage between the MCU PWB J401-A9 (+) and GND (-) (BSD 6.5 Flag 3). **The voltage is approx. +24VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Check the wire between J401 and J219 for an open circuit or a short circuit (BSD 6.5 Flag 3/Flag 4). **The wire between J401 and J219 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the ROS Fan (PL 3.1).

Replace the MCU PWB (PL 11.1).

061-344 Video Processor RAP

BSD-ON:6.4

There is a failure in the video processor.

Procedure

Replace the ROS (PL 3.1).

061-345 +5 VDC Interlock RAP

BSD-ON:1.3/1.4

There is a failure in the +5 VDC interlock circuit.

Procedure

Go to BSDs 1.3 and/or 1.4 to troubleshoot the +5VDC Interlock circuit. Repair as required.

062-210 IIT Hot Line RAP

BSD-ON: 3.1

There is an open circuit in the cable between the IIT/IPS PWB and the ESS PWB.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the wire between J720 and J320 for an open circuit or a short circuit (BSD 3.1 Flag 3/Flag 4). **The wire between J720 and J320 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the IIT/IPS PWB (PL 13.3)

If the problem persists, replace the ESS PWB (PL 11.2).

062-211 IIT/IPS PWB EEPROM RAP

BSD-ON: 3.1

The IPS EEPROM failed during the Read/Write operation.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Switch on the power. **The problem persists.**

Y N
| Return to Service Call Procedures

Replace the IIT/IPS PWB (PL 13.3).

062-220 IIT/IPS PWB to ESS PWB RAP

BSD-ON:

Communication between the IIT/IPS PWB and ESS PWB failed.

Procedure

Switch off the power. Access the IIT/IPS PWB (PL 13.3) Disconnect and reconnect the ESS PWB (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

If the problem persists replace the IIT/IPS PWB (PL 13.3).

062-277 IIT/IPS PWB DADF PWB Communication RAP

BSD-ON: 3.5

Transmission error occurred between the IIT/IPS PWB and the DADF PWB.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Check the connection of each DADF PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Check the wire between J751 and J750, and between J752 and J750 for an open circuit or a short circuit (BSD 3.5 Flag 1). **The wires between J751 and J750, and between J752 and J750 are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the IIT/IPS PWB (PL 13.3).

If the problem persists, replace the DADF PWB (PL 16.3).

062-278 IIT/IPS PWB RAP

BSD-ON: 6.2

Communication between the IIT/IPS PWB and ESS PWB failed.

Procedure

Switch off the power. Access the IIT/IPS PWB (PL 13.3) Disconnect and reconnect the IIT/IPS PWB.

If the problem persists replace the ESS PWB (PL 11.2).

062-300 Platen Interlock Open RAP

BSD-ON: 6.1

The Platen Interlock is open.

Procedure

Check opening/closing of the Platen Cover. **The Platen Cover can be opened/closed.**

Y N

Reinstall the Platen Cover correctly.

Check the installation of the Platen Angle Sensor. **The Platen Angle Sensor is installed correctly.**

Y N

Install the Platen Angle Sensor correctly.

Execute Component Control[062-301]. **Open and close the Platen Cover. The display changes.**

Y N

Check the connections of P/J725 and P/J722. **P/J725 and P/J722 are connected correctly.**

Y N

Connect P/J725 and P/J722.

Check the wire between J725 and J722 for an open circuit or a short circuit (BSD 6.1 Flag 3/Flag 6). **The wire between J725 and J722 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the IIT/IPS PWB P722-B1 (+) and GND (-) (BSD 6.1 Flag 6). **The voltage is approx. +5VDC.**

Y N

Replace the IIT/IPS PWB (PL 13.3).

Measure the voltage between the IIT/IPS PWB P722-B2 (+) and GND (-) (BSD 6.1 Flag 5).

Actuate the Platen Angle Sensor with paper. **The voltage changes.**

Y N

Replace the Platen Angle Sensor (PL 13.4).

Replace the Platen Angle Sensor (PL 13.4).

Replace the IIT/IPS PWB (PL 13.3).

062-310 IIT/IPS PWB Controller Communication RAP

BSD-ON: 3.1

Transmission error occurred between the IIT/IPS PWB and the ESS PWB.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Check the wire between J720 and J320 for an open circuit or a short circuit (BSD 3.1 Flag 3/Flag 4). **The wire between J720 and J320 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the IIT/IPS PWB (PL 13.3).

If the problem persists, replace the ESS PWB (PL 11.2).

062-311 IIT/IPS Software RAP

BSD-ON: 6.2

A software error was detected by the IIT/IPS PWB.

Procedure

Perform GP 8 Firmware version. **The firmware is the latest version.**

Y N
| Reload Software (ADJ 9.3.1).

Replace the IIT/IPS PWB (PL 13.3).

062-345 IIT/IPS Subsystem RAP

BSD-ON: 3.1

The IPS EEPROM failed during a read/write operation.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the IIT/IPS PWB (PL 13.3).

062-357 CCD Fan Failure RAP

CCD Fan Failure

Initial Actions

- Check the vent has no foreign object and is not clogged.
- Check there is no dust on the Fan Blade.

Procedure

Remove the Platen Glass. Execute Component Control [062-017 CCD Fan]. **The CCD Fan operates.**

Y N

Replace the CCD FAn (PL 8.4).

Check CCD Fan connections and wiring for damage.

062-360 Carriage Position RAP

BSD-ON: 6.3

- An error occurred while counting the pulses of the Carriage Motor.
- After the Carriage Motor turned On, the IIT Registration Sensor did not turn On within the specified time.

Procedure

Check the Carriage Rail for dirt or contamination or distortion. **Dirt or contamination or distortion is found in the Carriage Rail.**

Y N

Clean the rails or correct the distortion (PL 11.4).

Execute Component Control [062-212 IIT Registration Sensor]. **Actuate the IIT Registration Sensor with paper. The display changes.**

Y N

Check the connections of P/J728 and P/J722. **P/J728 and P/J722 are connected correctly.**

Y N

Connect P/J728 and P/J722.

Check the wire between J728 and J722 for an open circuit or a short circuit (BSD 6.3 Flag 2/Flag 3). **The wire between J728 and J722 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the IIT/IPS PWB P722-A7 (+) and GND (-) (BSD 6.3 Flag 2/Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the IIT/IPS PWB (PL 13.3).

Measure the voltage between the IIT/IPS PWB P722-A9 (+) and GND (-) (BSD 6.3 Flag 2).

Actuate the IIT Registration Sensor (PL 13.4) with paper. **The voltage changes.**

Y N

Replace the IIT Registration Sensor (PL 13.4).

Replace the IIT/IPS PWB (PL 13.3).

Alternately execute Component Control[062-005 Carriage Motor SCAN ON] and Component Control[062-006 Carriage Motor RETURN ON]. **The Carriage Motor starts up.**

Y N

Check the connections of P/J722 and P/J721. **P/J722 and P/J721 are connected correctly.**

Y N

Connect P/J722 and P/J721.

Check the wire between J722 and J721 for an open circuit or a short circuit (BSD 6.3 Flag 1). **The wire between J722 and J721 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Carriage Motor (PL 13.5). **The resistance between J721-5/6 and J721-1/2/3/4 is approx. 10Ohm.**

Y N

Replace the Carriage Motor (PL 13.5).

Measure the voltage between the IIT/IPS PWB (PL 13.3) P722-B10 (+) and GND (-), and between P722-B11 (+) and GND (-) (BSD 6.3 Flag 1). **The voltage is approx. +24VDC.**

Y N

Replace the IIT/IPS PWB (PL 13.3).

Replace the Carriage Motor (PL 13.5)

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

Replace the IIT/IPS PWB (PL 13.3).

062-362 IIT/IPS PWB RAP

BSD-ON:6.3

Control Logic detected a failure in the IIT/IPS PWB.

Procedure

Switch off the power. Access the IIT/IPS PWB (PL 13.3) Disconnect and reconnect the IIT/IPS PWB connectors.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the IIT/IPS PWB (PL 13.3).

062-371 Lamp Illumination RAP

BSD-ON: 6.3

The amount of light from Exposure Lamp is inadequate which gets incident on CCD at the start of scan or at the initialization of IIT after power on.

Procedure

Check the lamp, lens, mirror and the white correcting plate for abnormalities such as contamination and deterioration. **Abnormality such as contamination or deterioration of the lamp, lens, mirror or the white correcting plate is found.**

Y N

Replace the lamp, lens, mirror or the white correcting plate.

Execute Component Control [062-002 IIT Exposure Lamp]. **The Exposure Lamp lights up.**

Y N

Check the connections of P/J703, P/J702 and P/J723. **P/J703, P/J702 and P/J723 are connected correctly.**

Y N

Connect P/J703, P/J702 and P/J723.

Check the wire between J702 and J723 for an open circuit or a short circuit. **The wire between J702 and J723 is conducting without an open circuit or a short circuit.**

Y N

Replace the Lamp Wire Harness (PL 13.6).

Measure the voltage between the IIT/IPS PWB (PL 13.3) P723-1 (+) and GND (-), and between P723-2 (+) and GND (-) (BSD 6.3 Flag 4). **The voltage is approx. +24VDC.**

Y N

Replace the IIT/IPS PWB (PL 13.3).

Replace the Exposure Lamp (PL 13.6)

If the problem persists, replace the Lamp Ballast PWB (PL 13.6)

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

Check the connections of P/J700 and P/J710. **P/J700 and P/J710 are connected correctly.**

Y N

Connect P/J700 and P/J710.

Replace the Lens Kit Assembly (PL 11.4)

If the problem persists, replace the IIT/IPS PWB (PL 13.3).

062-380 Platen AGC CH1 RAP

BSD-ON: 6.3

At the adjustment of CCD output after power on, CCD does not make a correct output which it should when it receives a specified amount of light.

Procedure

Check the lamp, lens, mirror and the white correcting plate for abnormalities such as contamination and deterioration. **Abnormality such as contamination or deterioration of the lamp, lens, mirror or the white correcting plate is found.**

Y N
Replace the lamp, lens, mirror or the white correcting plate.

Execute Component Control[062-002 IIT Exposure Lamp]. **The Exposure Lamp lights up.**

Y N
Check the connections of P/J703, P/J702 and P/J723. **P/J703, P/J702 and P/J723 are connected correctly.**

Y N
Connect P/J703, P/J702 and P/J723.

Check the wire between J702 and J723 for an open circuit or a short circuit (BSD 6.3 Flag 4). **The wire between J702 and J723 is conducting without an open circuit or a short circuit.**

Y N
Replace the Lamp Wire Harness (PL 13.6).

Measure the voltage between the IIT/IPS PWB (PL 13.3) P723-1 (+) and GND (-), and between P723-2 (+) and GND (-) (BSD 6.3 Flag 4). **The voltage is approx. +24VDC.**

Y N
Replace the IIT/IPS PWB (PL 13.3).

Replace the Exposure Lamp (PL 13.6)
If the problem persists, replace the Lamp Ballast PWB (PL 13.6)
If the problem persists, replace the IIT/IPS PWB (PL 13.3).

Check the connections of P/J700 and P/J710. **P/J700 and P/J710 are connected correctly.**

Y N
Connect P/J700 and P/J710.

Replace the Lens Kit Assembly (PL 13.4)
If the problem persists, replace the IIT/IPS PWB (PL 13.3).

A

062-386 Platen AOC CH1 RAP

BSD-ON: 6.2

At the adjustment of CCD output after power on, CCD does not make a correct output which it should when no light is incident on it.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N
Connect the connectors.

Switch on the power. **The problem persists.**

Y N
Return to Service Call Procedures

Replace the Lens Kit Assembly (PL 13.4)
If the problem persists, replace the IIT/IPS PWB (PL 13.3).

A

062-389 Carriage Over Run RAP

BSD-ON: 3.1

The carriage scanned beyond safe limits.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures

Replace the IIT/IPS PWB (PL 13.3).

062-392 IIT/IPS PWB Memory Failure-1 RAP

BSD-ON: 3.1

- The IIT/IPS PWB RAM failed during the Read/Write operation.
- The Shading Memory failed during the Read/Write operation.
- The Gap Memory failed during the Read/Write operation.
- The ASIC (Application Specific Integrated Circuit) failed.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures

Replace the IIT/IPS PWB (PL 13.3).

062-393 IIT/IPS PWB RAM RAP

BSD-ON: 6.2

An internal processing error occurred in the IIT/IPS PWB.

Procedure

Check the connection of each IIT/IPS PWB (PL 13.3) connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power.

If the problem persists replace the IIT/IPS PWB (PL 13.3).

If the problem persists, replace the Lens Kit Assembly (PL 13.4).

062-500 IISS ROM RAP

BSD-ON: 6.2

IISS ROM Failure.

Procedure

Check the connections on the IIT/IPS PWS (PL 13.3).

Check that the prom on the IIT/IPS PWB is seated properly.

If the above checks are OK, replace the IIT/IPS PWB (PL 13.3).

Perform Max Setup (ADJ 9.1.2) if the IIT/IPS PWB was replaced.

Perform DADF Registration Setup (ADJ 15.1.4).

062-790 Prohibited Document Detection RAP

BSD-ON: 6.2

Control logic detects a prohibited document.

Procedure

Ask the customer to verify that the document is not a prohibited document. Refer to Prohibited Documents in SGS 12.

If the document is not prohibited, replace the IIT/IPS PWB (PL 13.3).

063-210 Extension EPROM RAP

There is a failure in the EPROM on the Extension PWB.

Procedure

Replace the Extension PWB (PL 9.2).

063-220 IIT/IPS PWB Extension PWB Sync RAP

The IIT/IPS PWB failed to synchronize with the Extension PWB.

Procedure

Disconnect and reconnect the Extension PWB.

If the problem persists, replace the Extension PWB (PL 9.2).

If the problem persists, replace the IIT/IPS PWB (PL 11.3).

063-230 Extension PWB DIMM RAP

The DIMM failed on the Extension PWB.

Procedure

Disconnect and reconnect the DIMM on the Extension PWB.

If the problem persists, replace the DIMM (PL 11.3).

If the problem persists, replace the Extension PWB (PL 9.2).

063-240 Extension PWB Processing RAP

The Extension PWB failed to process image parameters.

Procedure

Disconnect and reconnect the Extension PWB.

If the problem persists, replace the Extension PWB (PL 9.2).

063-500 IISS Extension ROM RAP

IISS Extension ROM Failure.

Procedure

Check the connections on the IIT/IPS PWS (PL 13.3).

Check that the prom on the IIT/IPS PWB is seated properly.

If the above checks are OK, replace the IIT/IPS PWB (PL 13.3).

Perform Max Setup (ADJ 9.1.2) if the IIT/IPS PWB was replaced.

Perform DADF Registration Setup (ADJ 15.1.4).

065-210 Extension PWB DIMM RAP

The DIMM failed on the Extension PWB.

Procedure

Check the connections on the IIT/IPS PWS (PL 13.3).

Check that the prom on the IIT/IPS PWB is seated properly.

If the above checks are OK, replace the IIT/IPS PWB (PL 13.3).

Perform Max Setup (ADJ 9.1.2) if the IIT/IPS PWB was replaced.

Perform DADF Registration Setup (ADJ 15.1.4).

065-211 CIS Flash ROM RAP

There is a failure in the Flash ROM on the CIS.

Procedure

Replace the IF PWB (PL 13.2).

065-212 CIS Shading RAP

BSD-ON:

There is a shading failure on the CIS.

Procedure

Clean the white reference strip.

065-213 CIS Light RAP

BSD-ON:

There is a light level failure in the CIS.

Procedure

Clean the white reference strip.

If the problem persists check electrical connections between IIT and DADF.

065-215 Extension PWB DIMM 2 RAP

BSD-ON:

The DIMM 2 failed on the Extension PWB.

Procedure

Disconnect and reconnect the DIMM 2 on the Extension PWB.

065-216 Extension PWB DIMM 3 RAP

BSD-ON:

The DIMM 3 failed on the Extension PWB.

Procedure

Disconnect and reconnect the DIMM 3 on the Extension PWB.

065-219 CIS Black/White RAP

There is a black/white level failure on the CIS.

Procedure

Check electrical connections between IIT and DADF. Disconnect and reconnect CIS and Extension PWB.

065-220 IF PWB Sync RAP

There is a synchronization failure on the IF PWB.

Procedure

Check electrical connections between IIT and DADF.

If the problem persists, replace the IF PWB (PL 13.2)

071-100 Tray 1 Pre Feed RAP

BSD-ON:7.7, 8.1

A sheet did not actuate the Tray 1 Pre Feed Sensor in time.

Initial Actions

Check that the paper path is free of foreign substances and sensors are free of paper dust.

Procedure

Run the machine to create the fault. Check if paper is partially fed from the tray. **Paper is partially fed from the tray (top sheet is shingled or moved slightly from stack).**

Y N
There is a drives problem. Enter Component Control [071-001 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) energizes).**

Y N
Check the connections of P/J201, P/J611 and P/J424. **P/J201, P/J611 and P/J424 are connected correctly.**

Y N
Connect P/J201, P/J611 and P/J424.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [071-002 Tray 1 Feed/Lift Motor ON]. **The Tray 1 (2) Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 2 Feed/Lift Motor to its original position.

Check the wires between P/J201 and P/J424 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The circuit between J201 and J409 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Repeat the code and check that the Feed Rolls are rotating. Repair the drives as required (PL 2.3, PL 2.4).

There is a sensing problem. Enter Component Control [071-100 Tray 1 Pre Feed Sensor]. Actuate the Tray 1 Pre Feed Sensor (PL 2.3) with paper. **The display changes.**

Y N
Check the Connection of P/J133, P/J611 and P/J424. P/J133, P/J611 and P/J424 are connected correctly.

Y N
Connect P/J133, P/J611 and P/J424.

A B
Check the wires between P/J133 and P/J424 for open circuit (BSD 8.1 Flag 2/Flag 3). **The circuit between P/J133 and P/J424 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between MCU PWB P/J424-A15 (+) and P/J424-A13(-) (BSD 8.1 Flag 3). The voltage is approx. **+5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between MCU PWB P/J424-A14 (+) and GND (-) (BSD 8.1 Flag 2). Actuate the Tray 1 Pre Feed Sensor with paper. **The voltage changes.**

Y N
Replace the Tray 1 Pre Feed Sensor (PL 2.3).

Replace the MCU PWB (PL 11.1).

Check the installation of the sensor and associated components (PL 2.3, PL 2.4)

A B
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071-100

071-101 Tray 1 Misfeed RAP

BSD-ON:8.2

A sheet did not actuate the Tray 1 Feed Out Sensor in time.

Initial Actions

Check that the paper path is free of foreign substances and sensors are free of paper dust.

Procedure

Execute Component Control [077-101 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) energizes.**

Y N
|
Check the connections of P/J218 and P/J424. **Connectors are connected correctly.**
Y N
|
Connect P/J218 and P/J424.
|
Measure the resistance of the Takeaway Roll Clutch (PL 2.4 BSD 8.2 Flag 3). (Between P/J218-1 and P/J218-2) **The resistance is approx. 250~100Ohm.**
Y N
|
Replace the Takeaway Roll Clutch (PL 2.4).
|
Check the wires between P/J218 and P/J424 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The circuit between P/J218 and P/J424 is conducting without an open circuit or a short circuit.**
Y N
|
Repair the open circuit or short circuit.
|
Replace the MCU PWB (PL 11.1).

Enter Component Control [071-100 Takeaway Sensor]. Actuate the Tray 1 Pre Feed Sensor (PL 2.3) with paper. **The display changes.**

Y N
|
Check the Connection of P/J133, P/J611 and P/J424. P/J133, P/J611 and P/J424 are connected correctly.
Y N
|
Connect P/J133, P/J611 and P/J424.
|
Check the wires between P/J133 and P/J424 for open circuit (BSD 8.1 Flag 2/Flag 3). **The circuit between P/J133 and P/J424 is conducting without an open circuit or a short circuit.**
Y N
|
Repair the open circuit or short circuit.
|
Measure the voltage between MCU PWB P/J424-A15 (+) and P/J424-A13(-) (BSD 8.1 Flag 3). The voltage is approx. **+5VDC.**
Y N
|
Replace the MCU PWB (PL 11.1).
|
Measure the voltage between MCU PWB P/J424-A14 (+) and GND (-) (BSD 8.1 Flag 2). Actuate the Tray 1 Pre Feed Sensor with paper. **The voltage changes.**

A

Y

N

Replace the Tray 1 Pre Feed Sensor (PL 2.3).

Replace the MCU PWB (PL 11.1).

Check the paper transport drives and repair as required (PL 2.3/PL 2.5).

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071-105 Registration Sensor RAP

BSD-ON: 8.7

A sheet did not actuate the Registration Sensor in time.

Procedure

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N
Check the wires between P/J106 and P/J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The circuit between P/J106 and P/J405 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J405-8A (+) and P/J405-6A (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J405-A7 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Check the paper transport drives and repair as required (PL 1.1, PL 2.5).

071-211 Tray 1 RAP

BSD-ON:7.1

The Tray 1 Paper Size Switch failed.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Remove Tray 1. Check the condition of the Tray 1 Paper Size Switch and actuators. **The Tray 1 Paper Size Switch and actuators appear to be free of damage.**

Y N
| Replace the Tray 1 Paper Size Switch (PL 2.1).

Check the Tray 1 actuator on the back of Tray 1. **The actuator is good.**

Y N
| Repair as required (PL 2.1)

Go to the OF 2 Size Switch Assy RAP.

071-212 Tray 1 Ready RAP

BSD-ON:7.7

There is a Tray 1 ready failure.

Procedure

Switch the power off then on. If the problem continues disconnect and reconnect P/J424 on the MCU PWB.

071-210 Tray 1 Lift Up RAP

BSD-ON:7.7

The Tray 1 Level Sensor did not actuate in time after the Tray 1 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Enter Component Control [071-002 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J201, P/J611 and P/J424. **P/J201, P/J611 and P/J424 are connected correctly.**

Y N
Connect P/J201, P/J611 and P/J424.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [071-002 Tray 1 Feed/Lift Motor ON]. **The Tray 1 (2) Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 2 Feed/Lift Motor to its original position.
Check the wires between P/J201 and P/J424 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The circuit between J201 and J409 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Check the installation of the Tray 1 Level Sensor (PL 2.3 and the operation of the actuator. **The Tray 1 Level Sensor is installed correctly and the actuator works.**

Y N
Repair the Tray 1 Level Sensor (PL 2.3).

Enter Component Control [071-102 Tray 1 Level Sensor]. Manually activate the Tray 1 Level Sensor (PL 2.3). **The display changes.**

Y N
Check the connections of P/J100, P/J611 and P/J424. **P/J100, P/J611 and P/J424 are connected correctly.**

Y N
Connect P/J100, P/J611 and P/J424.

A B
Check the wires between P/J100 and P/J424 for an open circuit or a short circuit (BSD 7.7 Flag 2/Flag 3). **The circuit between J100 and J409 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J424-A7 (+) and P/J424-A8 (-) (BSD 7.7 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J424-A9 (+) and GND (-) (BSD 7.7 Flag 2).

Activate the actuator of the Tray 1 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 1 Level Sensor (PL 2.3).

Replace the MCU PWB (PL 11.1).

Repair the tray lift drives as required (PL 2.3).

A B

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071-210

071-401 Tray 1 Feed Roll Life RAP

BSD-ON:8.1

The Tray 1 Feed Rolls are near end of life.

Procedure

NOTE: Replace the feed rolls now if the next service call is likely to occur after the rolls reach end of life (PL 2.4).

071-402 Tray 1 Feed Roll Replacement RAP

BSD-ON:8.1

The Tray 1 Feed Rolls reached end of life.

Procedure

Replace the Tray 1 Feed Rolls (PL 2.4).

071-900 Tray 1 Feed Out Sensor RAP

Paper remains on the Tray 1 Feed Out Sensor.

Procedure

Check the following:

- Check that no paper is at the Tray 1 Feed Out Sensor (PL 14.3 Reflection Sensor).
- Check that the sensor is clean and free of paper dust.
- Check that the wires between the Tray 1 Feed Out Sensor and P/J548

071-940 Tray 1 Lift Up RAP

BSD-ON:7.7

The Tray 1 Level Sensor did not actuate in time after the Tray 1 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Enter Component Control [071-002 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J201, P/J611 and P/J424. **P/J201, P/J611 and P/J424 are connected correctly.**

Y N
Connect P/J201, P/J611 and P/J424.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [071-002 Tray 1 Feed/Lift Motor ON]. **The Tray 1 (2) Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 2 Feed/Lift Motor to its original position.
Check the wires between P/J201 and P/J424 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The circuit between J201 and J409 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Check the installation of the Tray 1 Level Sensor (PL 2.3 and the operation of the actuator. **The Tray 1 Level Sensor is installed correctly and the actuator works.**

Y N
Repair the Tray 1 Level Sensor (PL 2.3).

Enter Component Control [071-102 Tray 1 Level Sensor]. Manually activate the Tray 1 Level Sensor (PL 2.3). **The display changes.**

Y N
Check the connections of P/J100, P/J611 and P/J424. **P/J100, P/J611 and P/J424 are connected correctly.**

Y N
Connect P/J100, P/J611 and P/J424.

A B
Check the wires between P/J100 and P/J424 for an open circuit or a short circuit (BSD 7.7 Flag 2/Flag 3). **The circuit between J100 and J409 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J424-A7 (+) and P/J424-A8 (-) (BSD 7.7 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J424-A9 (+) and GND (-) (BSD 7.7 Flag 2).

Activate the actuator of the Tray 1 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 1 Level Sensor (PL 2.3).

Replace the MCU PWB (PL 11.1).

Repair the tray lift drives as required (PL 2.3).

A B

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071-940

072-100 Tray 2 Pre Feed RAP

BSD-ON:7.9, 7.11, 8.1

A sheet did not actuate the Tray 2 Pre Feed Sensor in time.

Initial Actions

Check that the paper path is free of foreign substances and sensors are free of paper dust.

Procedure

Run the machine to create the fault. Check if paper is partially fed from the tray. **Paper is partially fed from the tray (top sheet is shingled or moved slightly from stack).**

Y N

There is a drives problem.

Enter Component Control [072-002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N

Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Return the Tray 1 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 1/7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Repeat the code and check that the Feed Rolls are rotating. Repair the drives as required (PL 14.1, PL 14.2, PL 15.6 PL 15.7).

There is a sensing problem. Enter Component Control [072-100 Tray 2 Pre Feed Sensor]. Actuate the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N

Check the Connection of P/J103B, and P/J549. **P/J103B, and P/J549 are connected correctly.**

Y N

Connect P/J103B, and P/J549.

A B

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B

Check the wires between P/J103B and P/J549 for open circuit (BSD 8.1 Flag 7/Flag 6). **The circuit between P/J103B and P/J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between Tray Module PWB P/J549-30 (+) and P/J549-28 (-) (BSD 8.1 Flag 7). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 14.3/PL 15.6).

Measure the voltage between Tray Module PWB P/J549-29 (+) and GND (-) (BSD 8.1 Flag 6). Actuate the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N

Replace the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.3/PL 15.6).

Check the installation of the sensor and associated components (PL 14.1, PL 14.2, PL 15.6 PL 15.7)

072-101 Tray 2 Misfeed Jam RAP

BSD-ON:7.9/7.11/8.2

The Tray 2 Feed Out Sensor did not actuate in time after the Tray 2 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly

Check that the paper path is free of foreign material and paper dust.

Procedure

Enter Component Control [072-103 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 14.6/PL 15.5) with paper. **The display changes.**

Y N
Check the connections of P/J105, P/J612 and P/J410. **P/J105, P/J612 and P/J410 are connected correctly.**

Y N
Connect P/J105, P/J612 and P/J410.

Check the wires between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The circuit between J105 and J410 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P410-15 (+) and GND (-) (BSD 8.2 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P410-14 (+) and GND (-) (BSD 8.2 Flag 1). Actuate the Tray 2 Feed Out Sensor (PL 2.5) with paper. **The voltage changes.**

Y N
Replace the Tray 2 Feed Out Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Enter Component Control [072-002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N
Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

A

Y N
Return the Tray 1 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 1/7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Enter Component Control [072-100 Tray 2 Pre Feed Sensor]. Actuate the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
Check the Connection of P/J103B, and P/J549. **P/J103B, and P/J549 are connected correctly.**

Y N
Connect P/J103B, and P/J549.

Check the wires between P/J103B and P/J549 for open circuit (BSD 8.1 Flag 7/Flag 6). **The circuit between P/J103B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between Tray Module PWB P/J549-30 (+) and P/J549-28 (-) (BSD 8.1 Flag 7). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.3/PL 15.6).

Measure the voltage between Tray Module PWB P/J549-29 (+) and GND (-) (BSD 8.1 Flag 6). Actuate the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N
Replace the Tray 2 Pre Feed Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.3/PL 15.6).

Check the paper transport drives and repair as required (PL 2.3, PL 2.5,

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072-102 Tray 2 Feed Out Sensor On Jam (Tray 3 Feed) RAP

BSD-ON:8.3/8.4

The Tray 2 Feed Out Sensor did not actuate in time after the Tray 3 Feed Out Sensor actuated.

Initial Actions

Check that the paper path is free of foreign material and paper dust.

Procedure

Enter Component Control [072-103 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
Check the connections of P/J821, P/J841 and P/J548. **P/J821, P/J841 and P/J548 are connected correctly.**

Y N
Connect P/J821, P/J841 and P/J548.

Check the wires between P/J821 and P/J548 for an open circuit or a short circuit (BSD 8.3 Flag 1/Flag 2/Flag 3). **The wires between P/J821 and P/J548 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J548-8 (+) and P/J548-9 (-) (BSD 8.3 Flag 2/Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J548-10 (+) and GND (-) (BSD 8.2 Flag 1). Actuate the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N
Replace the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Enter Component Control [077-022 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 14.7/PL 15.9) can be heard.**

Y N
Check the connections of P/J826 and P/J552. **P/J826 and P/J552 are connected correctly.**

Y N
Connect P/J826 and P/J552.

Check the wires between P/J826 and P/J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wires between J826 and J552 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

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Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.5, PL 14.7/PL 15.8, PL 15.9).

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072-105 Tray 2 Registration Sensor On Jam RAP

BSD-ON:8.7/8.2

The Registration Sensor did not actuate in time after the Tray 2 Feed Out Sensor actuated.

Initial Actions

Check that the paper path is free of foreign material and paper dust.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
Replace the Transport Roll (PL 15.5).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N
Check the wires between P/J106 and P/J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The circuit between P/J106 and P/J405 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J405-8A (+) and P/J405-6A (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J405-A7 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Execute Component Control [077-001 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) energizes.**

Y N
Check the connections of P/J218 and P/J424. **Connections are connected correctly.**

Y N
Connect P/J218 and P/J424.

Measure the resistance of the Takeaway Roll Clutch (PL 2.4 BSD 8.2 Flag 3). (Between P/J218-1 and P/J218-2) **The resistance is approx. 250~100Ohm.**

Y N
Replace the Takeaway Roll Clutch (PL 2.4).

Check the wires between P/J218 and P/J424 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The circuit between P/J218 and P/J424 is conducting without an open circuit or a short circuit.**

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Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Enter Component Control [077-022 Takeaway Motor ON]. **Takeaway Motor (PL 14.7/PL 15.9) can be heard.**

Y N
Check the Connection of P/J552 and P/J826. **P/J826 and P/J552 are connected correctly.**

Y N
Connect P/J552 and P/J826.

Measure the voltage between Tray Module PWB P/J552-2 (+) and GND (-), and P/J552-5 (+) and GND(-) (BSD 8.2 Flag 1). **The voltage is approx. +24VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Replace the Takeaway Motor (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 2.4, PL 14.7, PL 15.9).

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072-210 Tray 2 Lift Up RAP

BSD-ON:7.9/7.11

The Tray 2 Level Sensor did not actuate in time after the Tray 2 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Remove the tray and reinstall. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N
Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 1 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 1/7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Check the installation of the Tray 2 Level Sensor (PL 14.3/PL 15.6) and the operation of the actuator. **The Tray 2 Level Sensor is installed correctly and the actuator works.**

Y N
Reinstall the Tray 2 Level Sensor (PL 14.3/PL 15.6).

Execute Component Control [072-102 Tray 2 Level Sensor]. Manually activate the Tray 2 Level Sensor (PL 14.3/PL 15.6). **The display changes.**

Y N
Check the connections of P/J101B, P/J661B and P/J549. **Connectors are connected correctly.**

Y N
Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 2 Flag 3/7.11 Flag 2 Flag 3). **The wires between P/J101B and P/J549 are conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-22 (+) and P/J549-23 (-) (BSD 7.9 Flag 3/7.11 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-24 (+) and GND (-) (BSD 7.9 Flag 2/7.11 Flag 2).

Activate the actuator of the Tray 2 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 2 Level Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 2.3, PL 14.7, PL 15.9).

072-211 Tray 2 RAP

BSD-ON:7.2

The Tray 2 Paper Size Switch failed.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Remove Tray 2. Check the condition of the Tray 2 Paper Size Switch and actuators. **The Tray 2 Paper Size Switch and actuators appear to be free of damage.**

Y N

Replace the Tray 2 Paper Size Switch (PL 14.1).

Check the Tray 2 actuator on the back of Tray 2. **The actuator is good.**

Y N

Repair as required (PL 14.1)

Go to the OF 2 Size Switch Assy RAP.

072-212 Tray 2 Ready RAP

BSD-ON:3.3

There is a Tray 2 ready failure.

Procedure

Check the circuits between P/J413 on the MCU PWB and P/J541 (2TM) or P/J541 (TTM) on the Tray Module PWB (Flag 5, Flag 6) for an open circuit or short circuit failure. Repair as required.

If the problem persists disconnect and reconnect P/J541 on the Tray Module PWB.

072-401 Tray 2 Feed Roll Life RAP

BSD-ON:8.1

The Tray 2 Feed Rolls are near end of life.

Procedure

NOTE: Replace the feed rolls now if the next service call is likely to occur after the rolls reach end of life (PL 14.4/PL 15.3).

072-402 Tray 2 Feed Roll Replacement RAP

BSD-ON:8.1

The Tray 2 Feed Rolls reached end of life.

Procedure

Replace the Tray 2 Feed Rolls (PL 14.4/PL 15.6).

072-900 Tray 2 Feed Out Sensor Jam RAP

BSD-ON:8.3/8.4

IOT Static Jam at Tray 2 Feed Out Sensor.

Initial Actions

Check that the paper path is free of foreign material and paper dust.

Procedure

Enter Component Control [072-103 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
Check the connections of P/J821, P/J841 and P/J548. **P/J821, P/J841 and P/J548 are connected correctly.**

Y N
Connect P/J821, P/J841 and P/J548.

Check the wires between P/J821 and P/J548 for an open circuit or a short circuit (BSD 8.3 Flag 1/Flag 2/Flag 3). **The wires between P/J821 and P/J548 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J548-8 (+) and P/J548-9 (-) (BSD 8.3 Flag 2/Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J548-10 (+) and GND (-) (BSD 8.2 Flag 1). Actuate the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N
Replace the Tray 2 Feed Out Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Enter Component Control [077-022 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 14.7/PL 15.9) can be heard.**

Y N
Check the connections of P/J826 and P/J552. **P/J826 and P/J552 are connected correctly.**

Y N
Connect P/J826 and P/J552.

Check the wires between P/J826 and P/J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wires between J826 and J552 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

A B
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.5, PL 14.7/PL 15.8, PL 15.9).

072-940 Tray 2/TTM 2 Lift Up RAP

BSD-ON:7.9/7.11

The Tray 2/TTM 2 Level Sensor did not actuate in time after the Tray 2 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Remove the tray and reinstall. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N
Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [071-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 1 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 1/7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Check the installation of the Tray 2 Level Sensor (PL 14.3/PL 15.6) and the operation of the actuator. **The Tray 2 Level Sensor is installed correctly and the actuator works.**

Y N
Reinstall the Tray 2 Level Sensor (PL 14.3/PL 15.6).

Execute Component Control [072-102 Tray 2 Level Sensor]. Manually activate the Tray 2 Level Sensor (PL 14.3/PL 15.6). **The display changes.**

Y N
Check the connections of P/J101B, P/J661B and P/J549. **Connectors are connected correctly.**

Y N
Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.9 Flag 2 Flag 3/7.11 Flag 2 Flag 3). **The wires between P/J101B and P/J549 are conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-22 (+) and P/J549-23 (-) (BSD 7.9 Flag 3/7.11 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-24 (+) and GND (-) (BSD 7.9 Flag 2/7.11 Flag 2).

Activate the actuator of the Tray 2 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 2 Level Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 2.3, PL 14.7, PL 15.9).

073-100 Tray 3 Pre Feed RAP

BSD-ON:7.9, 7.11, 8.1

A sheet did not actuate the Tray 2 Pre Feed Sensor in time.

Initial Actions

Check that the paper path is free of foreign substances and sensors are free of paper dust.

Procedure

Run the machine to create the fault. Check if paper is partially fed from the tray. **Paper is partially fed from the tray (top sheet is shingled or moved slightly from stack).**

Y N

There is a drives problem.

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N

Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6) and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Return the Tray 2 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6).

Repeat the code and check that the Feed Rolls are rotating. Repair the drives as required (PL 14.1, PL 14.2, PL 15.6 PL 15.7).

Enter Component Control [073-100 Tray 3 Pre Feed Sensor]. Actuate the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N

Check the Connection of P/J103B, P/J661B and P/J549. P/J103B, **P/J661B and P/J549 are connected correctly.**

A

Y N

Connect P/J103B, P/J661B and P/J549.

Check the wires between P/J103B and P/J549 for open circuit (BSD8.1 Flag 6/Flag 7). **The circuit between P/J103B and P/J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between Tray Module PWB P/J549-30 (+) and P/J549-28 (-) (BSD8.1 Flag 7). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between Tray Module PWB P/J549-29 (+) and GND(-) (BSD8.1 Flag 6). Actuate the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the installation of the sensor and associated components (PL 14.1, PL 14.2, PL 15.6 PL 15.7)

A

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073-101 Tray 3 Misfeed Jam RAP

BSD-ON:3.3/7.10/8.3

The Tray 3 Feed Out Sensor did not actuate in time after the Tray 3 Feed/Lift Motor energized.

Initial Actions

Check that the paper path is free of foreign material and paper dust.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is good.**

Y N
|
Replace the Transport Roll (PL 15.5).

Enter Component Control [073-103 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 14.6/PL 15.5) with paper. **The display changes.**

Y N
|
Check the connections of P/J821, P/J841, P/J548. **P/J821, P/J841 P/J548 are connected correctly.**

Y N
|
Connect P/J821, P/J841, P/J548.

Check the wires between J821 and J548 for an open circuit or a short circuit (BSD 8.3 Flag 1/Flag 2/Flag 3 / BSD 8.5 Flag 1/Flag 2/Flag 3). **The circuit between J821 and J548 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J548-8 (+) and P/J548-9 (-) (BSD 8.3 Flag 2 / BSD 8.5 Flag 2). **The voltage is approx. +5VDC.**

Y N
|
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P548-10 (+) and GND (-) (BSD 8.3 Flag 1 / BSD 8.5 Flag 1).

Actuate the Tray 3 Feed Out Sensor (PL 14.6/PL 15.5) with paper. **The voltage changes.**

Y N
|
Replace the Tray 3 Feed Out Sensor (PL 14.6/PL 15.5).

Check the wires between J541-10 and J413-B4 for an open circuit or a short circuit (BSD 3.3 Flag 1). **The circuit between J541-10 and J413-B4 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P413-B4 (+) and GND (-) (BSD 3.3 Flag 1). Actuate the Tray 3 Feed Out Sensor (PL 14.3/PL 13.5) with paper. **The voltage changes.**

Y N
|
Replace the Tray Module PWB (PL 14.7/PL 15.9).

A B
|
Replace the MCU PWB (PL 11.1).

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
|
Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N
|
Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
|
Return the Tray 2 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6).

Enter Component Control [073-100 Tray 3 Pre Feed Sensor]. Actuate the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
|
Check the Connection of P/J103B, P/J661B and P/J549. P/J103B, **P/J661B and P/J549 are connected correctly.**

Y N
|
Connect P/J103B, P/J661B and P/J549.

Check the wires between P/J103B and P/J549 for open circuit (BSD8.1 Flag 6/Flag 7). **The circuit between P/J103B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between Tray Module PWB P/J549-30 (+) and P/J549-28 (-) (BSD8.1 Flag 7). **The voltage is approx. +5VDC.**

Y N
|
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between Tray Module PWB P/J549-29 (+) and GND(-) (BSD8.1 Flag 6). Actuate the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

C

Y

N

Replace the Tray 3 Pre Feed Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.3, PL 14.6/PL 15.4, PL 15.5, PL 15.6)

073-102 Tray 3 Feed Out Sensor On Jam RAP

BSD-ON:8.3/8.4/8.5/8.6

The Tray 3 Feed Out Sensor did not actuate in the specified time.

Initial Actions

- If a grinding noise was reported or is heard with the 073-102 code, there may be incorrect gear mesh between TTM Takeaway Clutch (PL 2.6) and its drive gear, located to the right. Loosen the bracket fixing screws and reposition bracket for best gear mesh without binding.
- Check that the paper path is free of foreign material and paper dust.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
Replace the Transport Roll (PL 15.5).

Enter Component Control [073-103 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
Check the connections of P/J825, P/J842 and P/J548. **P/J825, P/J842 and P/J548 are connected correctly.**

Y N
Connect P/J825, P/J842 and P/J548.

Check the wires between P/J825 and P/J548 for an open circuit or a short circuit (BSD 8.5 Flag 4/Flag 5/Flag 6). **The wires between P/J825 and P/J548 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J548-1 (+) and P/J548-2 (-) (BSD 8.5 Flag 5/Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J548-3 (+) and GND (-) (BSD 8.5 Flag 4). Actuate the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N
Replace the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Enter Component Control [077-022 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 14.7/PL 15.9) can be heard.**

Y N
Check the connections of P/J826 and P/J552. **P/J826 and P/J552 are connected correctly.**

A

Y N
Connect P/J826 and P/J552.

Check the wires between P/J826 and P/J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wires between J826 and J552 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.7/PL 15.9).

A

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073-105 Tray 3 Registration Sensor On Jam RAP

BSD-ON:8.7/8.2/8.4

The Registration Sensor did not actuate in time after the Tray 3 Feed Out Sensor actuated.

Initial Actions

Check that the paper path is free of foreign material and paper dust.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
Replace the Transport Roll (PL 15.5).

Enter Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N
Check the wires between P/J106 and P/J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wires between P/J106 and P/J405 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J405-8A (+) and P/J405-6A (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J405-A7 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Enter Component Control [077-001 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) actuates.**

Y N
Check the connections of P/J218 and P/J424. **P/J218 and P/J424 are connected correctly.**

Y N
Connect P/J218 and P/J424.

Measure the resistance of the Takeaway Roll Clutch (PL 2.6) (BSD 8.2 Flag 3). (Between P218-1 and P218-4) **The resistance is approx. 250~100Ohm.**

Y N
Replace the Takeaway Roll Clutch (PL 2.4).

Check the wires between P/J218 and P/J424 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The circuit between P/J218 and P/J424 is conducting without an open circuit or a short circuit.**

A

Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Enter Component Control [077-022 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 14.7/PL 15.9) energizes.**

Y N
Check the connections of P/J826 and P/J552. **P/J826 and P/J552 are connected correctly.**

Y N
Connect P/J826 and P/J552.

Check the wires between P/J826 and P/J552 for an open circuit or a short circuit (BSD 8.4 Flag 1/ BSD 8.6 Flag 1). **The circuit between J826 and J552 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1)

Check the paper transport drives and repair as required (PL 2.4, PL 2.5, PL 14.7, PL 15.5, PL 15.9).

A

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073-210 Tray 3 Lift Up RAP

BSD-ON:7.10/7.12

- The 2TM-Tray 3 Level Sensor did not actuate in time after the 2TM-Tray 3 Feed/Lift Motor energized.
- The TTM-Tray 3 Level Sensor did not actuate in time after the TTM-Tray 3 Feed/Lift Motor energized.

Initial Actions

- Reload paper in the tray correctly.
- Remove foreign substances in the tray.

Procedure

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N

Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Return the Tray 2 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6).

Check the installation of the Tray 3 Level Sensor (PL 14.3/PL 15.6) and the operation of the actuator. **The Tray 3 Level Sensor is installed correctly and the actuator works.**

Y N

Reinstall the Tray 3 Level Sensor.

Enter Component Control [073-102 Tray 3 Level Sensor]. Manually activate the Tray 3 Level Sensor (PL 14.3/PL 15.6). **The display changes.**

Y N

Check the connections of P/J101B, P/J661B and P/J549. **P/J101B, P/J661B and P/J549 are connected correctly.**

A

Y N

Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 2/Flag 3 / BSD 7.12 Flag 2/Flag 3). **The circuit between J101B and J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-7 (+) and P/J549-8 (-) (BSD 7.10 Flag 3 / BSD 7.12 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-9 (+) and GND (-) (BSD 7.10 Flag 2 / BSD 7.12 Flag 2).

Activate the actuator of the Tray 3 Level Sensor (PL 14.3/PL 15.6). **The voltage changes.**

Y N

Replace the Tray 3 Level Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.3, PL 14.7/PL 15.9).

A

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073-211 Tray 3 RAP

BSD-ON:7.4/7.6

The Tray 3 Paper Size Switch failed.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Remove Tray 3. Check the condition of the Tray 3 Paper Size Switch and actuators. **The Tray 3 Paper Size Switch and actuators appear to be free of damage.**

Y N

Replace the Tray 3 Paper Size Switch (PL 14.1).

Check the Tray 3 actuator on the back of Tray 3. **The actuator is good.**

Y N

Repair as required (PL 14.1)

Go to the OF 2 Size Switch Assy RAP.

073-212 Tray 3 Ready RAP

BSD-ON:3.3

There is a Tray 3 ready failure.

Procedure

Check the circuits between P/J413 on the MCU PWB and P/J541 (2TM) or P/J541 (TTM) on the Tray Module PWB (Flag 5, Flag 6) for an open circuit or short circuit failure. Repair as required.

If the problem persists disconnect and reconnect P/J541 on the Tray Module PWB.

073-401 Tray 3 Feed Roll Life RAP

BSD-ON:8.1

The Tray 3 Feed Rolls are near end of life.

Procedure

NOTE: Replace the feed rolls now if the next service call is likely to occur after the rolls reach end of life (PL 14.4/PL 15.3).

073-402 Tray 3 Feed Roll Replacement RAP

BSD-ON:8.1

The Tray 3 Feed Rolls reached end of life.

Procedure

Replace the Tray 3 Feed Rolls (PL 14.4/PL 15.6).

073-900 Tray 3 Feed Out Sensor On Jam RAP

BSD-ON:8.3/8.4/8.5/8.6

IOT Static Jam at Tray 3 Feed Out Sensor.

Initial Actions

- If a grinding noise was reported or is heard with the 073-102 code, there may be incorrect gear mesh between TTM Takeaway Clutch (PL 2.6) and its drive gear, located to the right. Loosen the bracket fixing screws and reposition bracket for best gear mesh without binding.
- Check that the paper path is free of foreign material and paper dust.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
Replace the Transport Roll (PL 15.5).

Enter Component Control [073-103 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The display changes.**

Y N
Check the connections of P/J825, P/J842 and P/J548. **P/J825, P/J842 and P/J548 are connected correctly.**

Y N
Connect P/J825, P/J842 and P/J548.

Check the wires between P/J825 and P/J548 for an open circuit or a short circuit (BSD 8.5 Flag 4/Flag 5/Flag 6). **The wires between P/J825 and P/J548 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J548-1 (+) and P/J548-2 (-) (BSD 8.5 Flag 5/Flag 6). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J548-3 (+) and GND (-) (BSD 8.5 Flag 4). Actuate the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6) with paper. **The voltage changes.**

Y N
Replace the Tray 3 Feed Out Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Enter Component Control [077-022 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 14.7/PL 15.9) can be heard.**

Y N
Check the connections of P/J826 and P/J552. **P/J826 and P/J552 are connected correctly.**

A

Y N
Connect P/J826 and P/J552.

Check the wires between P/J826 and P/J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wires between J826 and J552 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.7/PL 15.9).

A

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073-940 Tray 3/TTM 3 Lift Up RAP

BSD-ON:7.10/7.12

- The 2TM-Tray 3 Level Sensor did not actuate in time after the 2TM-Tray 3 Feed/Lift Motor energized.
- The TTM-Tray 3 Level Sensor did not actuate in time after the TTM-Tray 3 Feed/Lift Motor energized.

Initial Actions

- Reload paper in the tray correctly.
- Remove foreign substances in the tray.

Procedure

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N
Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6 and the Tray 2 Feed/Lift Motor (PL 14.3/PL 15.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 14.3/PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 2 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 14.3/PL 15.6).

Check the installation of the Tray 3 Level Sensor (PL 14.3/PL 15.6) and the operation of the actuator. **The Tray 3 Level Sensor is installed correctly and the actuator works.**

Y N
Reinstall the Tray 3 Level Sensor.

Enter Component Control [073-102 Tray 3 Level Sensor]. Manually activate the Tray 3 Level Sensor (PL 14.3/PL 15.6). **The display changes.**

Y N
Check the connections of P/J101B, P/J661B and P/J549. **P/J101B, P/J661B and P/J549 are connected correctly.**

A

Y N
Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.10 Flag 2/Flag 3 / BSD 7.12 Flag 2/Flag 3). **The circuit between J101B and J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-7 (+) and P/J549-8 (-) (BSD 7.10 Flag 3 / BSD 7.12 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-9 (+) and GND (-) (BSD 7.10 Flag 2 / BSD 7.12 Flag 2).

Activate the actuator of the Tray 3 Level Sensor (PL 14.3/PL 15.6). **The voltage changes.**

Y N
Replace the Tray 3 Level Sensor (PL 14.3/PL 15.6).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Check the paper transport drives and repair as required (PL 14.3, PL 14.7/PL 15.9).

A

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075-135 MSI Registration Sensor On Jam RAP

BSD-ON:8.1, 8.7

The Registration Sensor did not actuate in time after the MSI Feed Solenoid energized.

Initial Actions

Ensure the tray guides are correctly adjusted.

Check that the MSI paper path is free of foreign substances and sensors are free of paper dust

Procedure

Check the installation of the MSI (REP 7.1.1). **The MSI is installed correctly.**

Y N
|
Install the MPT correctly.

Enter Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.5). **The display changes.**

Y N
|
Check the wires between P/J106 and P/J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The circuit between P/J106 and P/J405 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J405-8A (+) and P/J405-6A (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J405-A7 (+) and GND (-) (BSD 8.7 Flag 1).

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
|
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Execute Component Control [042-001 Main Motor On]. **The Main Motor in the Main Drive Assembly starts rotating and the Fuser starts up.**

Y N
|
Go to the OF 3 Main Drive Assembly RAP.

Execute Component Control [075-001 MSI Feed Solenoid ON]. **The MSI Feed Solenoid (PL 9.2) actuates.**

Y N
|
Check the connections of P/J205, P/J610, and P/J424. **P/J205, P/J610, and P/J424 are connected correctly.**

Y N
|
Connect P/J205, P/J610, and P/J424.

A B
|
Measure the resistance of the MSI Feed Solenoid (PL 9.2) (BSD 8.1 Flag 1). (Between P205-1 and P205-2). **The resistance is approx. 90Ohm.**

Y N
|
Replace the MSI Feed Solenoid (PL 7.2).

Check the wire between P205 and J411 for an open circuit or a short circuit (BSD 8.1 Flag 1). **The wire between P205 and J411 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Check the paper transport drives and repair as required (PL 2.5, PL 9.1).

A B

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075-135

075-401 MSI Feed Roll Life RAP

BSD-ON:8.1

The MSI Feed Rolls are near end of life.

Procedure

NOTE: On the next service call it may be time to replace the Feed Rolls (PL 9.1).

075-402 MSI Feed Roll Replacement RAP

BSD-ON:8.1

The MSI Feed Rolls must be replaced.

Procedure

Replace the MSI Feed Rolls (PL 9.1).

077-101 Registration Sensor Off Jam RAP

BSD-ON:8.7

After the Registration Clutch turned On, the Registration Sensor did not turn Off within the specified time.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
|
Replace the Transport Roll (PL 15.5).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.4). **The display changes.**

Y N
|
Check the connection of P/J605. **P/J605 is connected correctly.**

Y N
|
Connect P/J605.

Check the wire between J104 and J403 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wire between J104 and J403 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P403-B13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P403-B8 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
|
Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 11.1).

Execute Component Control [089-002 Registration Clutch ON]. **The Registration Clutch (PL 2.5) energized.**

Y N
|
Check the connection of P/J215. **P/J215 is connected correctly.**

Y N
|
Connect P/J215.

Measure the resistance of the Registration Clutch (PL 2.5) between P215-1 and P215-2 (BSD 8.7 Flag 3). **The resistance is approx. 240 Ohm.**

Y N
|
Replace the Registration Clutch (PL 2.5).

A B
|
Check the wire between J215 and J403 for an open circuit or a short circuit (BSD 8.7 Flag 3). **The wire between J215 and J403 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Check the paper transport drives and repair as required (PL 2.5).

A B

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077-103 Exit Sensor 1 Off Jam (too long) RAP

BSD-ON:10.3

After the Fuser Exit Sensor turned On, the Fuser Exit Sensor did not turn Off within the specified time.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y N
|
Install the Fuser correctly.

Open Left Upper Cover Assembly and verify that Exit 1 Gate (PL 8.4) is free to move. **Exit 1 Gate is free to move.**

Y N
|
Repair as required (PL 8.4).

Execute Component Control [077-105 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 7.1). **The display changes.**

Y N
|
Check the connections of P/J120 and P/J422. **Connections are connected correctly.**
Y N
|
Connect P/J120 and P/J422.

Check the wire between P/J120 and P/J422 for an open circuit or a short circuit (BSD 10.2 Flag 5/Flag 6). **The wire are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P422-9 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P422-11 (+) and GND (-) (BSD 10.2 Flag 5). Actuate the Fuser Exit Sensor with paper. **The voltage changes.**

Y N
|
Replace the Fuser Exit Sensor (PL 7.1).

Replace the MCU PWB (PL 11.1).

Execute Component Control [042-001 Main Motor ON]. **The Main Motor in the Main Drive Assembly starts rotating and the Fuser starts up.**

Y N
|
Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the paper transport drives and repair as required (PL 11.1).

077-104 Exit Sensor 1 Off Jam (too short) RAP

BSD-ON:10.3

After the Fuser Exit Sensor turned On, the Fuser Exit Sensor turns Off before the specified time.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y N
|
Install the Fuser correctly.

Open Left Upper Cover Assembly and verify that Exit 1 Gate (PL 8.4) is free to move. **Exit 1 Gate is free to move.**

Y N
|
Repair as required (PL 8.4).

Execute Component Control [077-105 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 7.1). **The display changes.**

Y N
|
Check the connections of P/J120 and P/J422. **Connections are connected correctly.**
Y N
|
Connect P/J120 and P/J422.

Check the wire between P/J120 and P/J422 for an open circuit or a short circuit (BSD 10.2 Flag 5/Flag 6). **The wire are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P422-9 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P422-11 (+) and GND (-) (BSD 10.2 Flag 5). Actuate the Fuser Exit Sensor with paper. **The voltage changes.**

Y N
|
Replace the Fuser Exit Sensor (PL 7.1).

Replace the MCU PWB (PL 11.1).

Execute Component Control [042-001 Main Motor ON]. **The Main Motor in the Main Drive Assembly starts rotating and the Fuser starts up.**

Y N
|
Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the paper transport drives and repair as required (PL 11.1).

077-105 Exit Sensor 2 Off Jam RAP

BSD-ON:10.4, 10.5

The paper did not deactivate the Exit Sensor 2 sensor after actuating the sensor.

Procedure

Check the paper transport drives for interference, components out of position, or faulty drives and repair as required (PL 8.4).

077-106 Exit Sensor 1 On Jam RAP

BSD-ON:9.410.2

After the Registration Clutch turned On, the Fuser Exit Sensor did not turn On within the specified time.

Initial Actions

Check for torn paper, components out of position or paper dust in the paper transport path.

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y N
|
Install the Fuser correctly.

Execute Component Control [077-105 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 7.1). **The display changes.**

Y N
|
Check the connections of P/J120 and P/J422. **Connections are connected correctly.**

Y N
|
Connect P/J120 and P/J422.

Check the wire between P/J120 and P/J422 for an open circuit or a short circuit (BSD 10.2 Flag 5/Flag 6). **The wire are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P422-9 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P422-11 (+) and GND (-) (BSD 10.2 Flag 5). Actuate the Fuser Exit Sensor with paper. **The voltage changes.**

Y N
|
Replace the Fuser Exit Sensor (PL 7.1).

Replace the MCU PWB (PL 11.1).

Execute Component Control [042-001 Main Motor ON]. **The Main Motor in the Main Drive Assembly starts rotating and the Fuser starts up.**

Y N
|
Go to the OF 3 (MAIN DRIVE ASSY RAP).

Check the paper transport drives and repair as required (PL 8.1, PL 8.2, PL 17.11, PL 1.1).

077-108 Exit Gate Jam RAP

BSD-ON:10.4, 10.5

A sheet jammed at the Exit Gate

Procedure

Check the paper transport drives and repair as required (PL 8.3, PL 8.4).

077-109 IOT Exit Sensor 2 On Jam RAP

BSD-ON:10.3/10.4

After the Fuser Exit Sensor turned On, the Exit 2 Sensor did not turn On within the specified time.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the installation of the Exit 2 Module. **The Exit 2 Module is installed correctly.**

Y N
|
Install the Exit 2 Module correctly.

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
|
Replace the Transport Roll (PL 15.5).

Open Left Upper Cover Assembly and verify that Exit 1 Gate (PL 8.2) is free to move. **Exit 1 Gate is free to move.**

Y N
|
Repair as required.

Check the clearance between the Diverter Gate and the Fixed Guide on the left hand door. PL 8.3) **Operation is satisfactory.**

Y N
|
Repair as required (PL 8.3)

Execute Component Control [071-102 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 8.4) with paper. **The display changes.**

Y N
|
Check the wire between J112 and J434 for an open circuit or a short circuit (BSD 10.3 Flag 1/Flag 2). **The wire between J112 and J434 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Exit 2 Sensor (PL 8.4).

Execute Component Control [047-023 Exit 2 Motor ON]. **The Exit 2 Motor (PL 8.4) energized.**

Y N
|
Check the wire between J208 and J433 for an open circuit or a short circuit (BSD 10.4 Flag 1). **The wire between J208 and J433 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the resistance of the Exit 2 Motor (PL 8.4) between J208-1 (COM) and each point of J208-2/3/4/5 (BSD 10.4 Flag 2). **The resistance is approx. 100hm.**

A

Y N
|
Replace the Exit 2 Motor (PL 8.4).

Replace the Exit 2 Motor (PL 8.4).

Execute Component Control [047-024 Exit Gate Solenoid ON]. **The Exit Gate Solenoid (PL 8.4) starts up and the gates start switching.**

Y N
|
Check the wire between J209 and J433 for an open circuit or a short circuit (BSD 10.4 Flag 3). **The wire between J209 and J433 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the resistance of the Exit Gate Solenoid (PL 8.4) between J209-1 and J209-2 (BSD 10.4 Flag 4). **The resistance is approx. 1600hm.**

Y N
|
Replace the Exit 2 Motor (PL 8.4).

Replace the Exit Gate Solenoid (PL 8.4).

Replace the Exit PWB (PL 11.1).

A

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077-110 POB Sensor On Jam RAP

BSD-ON:10.1

The POB sensor senses paper at the wrong time.

Procedure

Check the condition of the POB Sensor (PL 10.1) (BSD 10.1).

Check the condition of the Registration Clutch (PL 2.5) (BSD 8.7).

077-123 Registration Sensor On Jam RAP

BSD-ON:8.7, 10.4, 10.6

Paper is late to the Registration Sensor during a Duplex job.

Procedure

Check the paper transport sensors and drives and repair as required (PL 2.5, PL 10.1).

077-130 Duplex Out Sensor On Jam RAP

BSD-ON:8.7/9.3/10.5

In the case where there is non-stop Duplex feed, the Registration Sensor did not turn On within the specified time after the Duplex Sensor turned On.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the installation of the DUP Module. **The DUP Module is installed correctly.**

Y N
|
Install the DUP Module correctly.

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
|
Replace the Transport Roll (PL 15.5).

Execute Component Control [089-100 Registration Sensor]. Manually activate the actuator of the Registration Sensor (PL 2.4). **The display changes.**

Y N
|
Check the connection of P/J605. **P/J605 is connected correctly.**

Y N
|
Connect P/J605.

Check the wire between J104 and J403 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The wire between J104 and J403 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P403-B13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
|
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P403-B8 (+) and GND (-) (BSD 8.7 Flag 1). Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
|
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Execute Component Control [071-105 Duplex Sensor]. Actuate the Duplex Sensor (PL 10.1) with paper. **The display changes.**

Y N
|
Check the wire between J123 and J541 for an open circuit or a short circuit (BSD 10.5 Flag 1/Flag 2). **The wire between J123 and J541 is conducting without an open circuit or a short circuit.**

A

Y N
|
Repair the open circuit or short circuit.

Replace the Duplex Sensor (PL 10.1) If the problem persists, replace the Duplex PWB (PL 10.1).

Execute Component Control [077-006 Duplex Motor ON]. **The Duplex Motor energized.**

Y N
|
Check the wire between J212 and J542 for an open circuit or a short circuit (BSD 10.5 Flag 3). **The wire between J212 and J542 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Duplex Motor (PL 10.1) If the problem persists, replace the Duplex PWB (PL 10.1).

Replace the Duplex PWB (PL 10.1).

A

077-131 Duplex Wait Sensor On Jam RAP

BSD-ON:10.4/10.5

After the Exit 2 Motor turned On, the Duplex Sensor does not turn On within the specified time.

Initial Actions

Check for torn paper, components out of position, or paper dust in the paper transport path.

Procedure

Check the installation of the Duplex Module. **The Duplex Module is installed correctly.**

Y N
|
Install the Duplex Module correctly.

Check the Transport Roll for wear and paper dust. **The Transport Roll is ok.**

Y N
|
Replace the Transport Roll (PL 15.5).

Execute Component Control [077-106 Duplex Sensor]. Actuate the Duplex Sensor (PL 10.1) with paper. **The display changes.**

Y N
|
Check the wire between J123 and J541 for an open circuit or a short circuit (BSD 10.5 Flag 1/Flag 2). **The wire between J123 and J541 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Duplex Sensor (PL 10.1) If the problem persists, replace the Duplex PWB (PL 8.1).

Execute Component Control [077-006 Duplex Motor ON]. **The Duplex Motor energized.**

Y N
|
Check the wire between J212 and J542 for an open circuit or a short circuit (BSD 10.5 Flag 3). **The wire between J212 and J542 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Replace the Duplex Motor (PL 10.1) If the problem persists, replace the Duplex PWB (PL 8.1).

Execute Component Control [077-007 Exit 2 Motor ON]. **The Exit 2 Motor energized.**

Y N
|
Check the wire between J208 and J433 for an open circuit or a short circuit (BSD 10.4 Flag 1). **The wire between J208 and J433 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the resistance of the Exit 2 Motor (PL 8.4) between J208-1 (COM) and each point of J208-2/3/4/5 (BSD 10.4 Flag 2). **The resistance is approx. 10Ohm.**

A
|
Y N
|
Replace the Exit 2 Motor (PL 8.4).
|
Replace the Exit 2 Motor (PL 8.4).
|
Replace the Duplex PWB (PL 10.1).

A

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077-215 Tray Module Communication RAP

BSD-ON:3.3

There is a Tray Module communication failure.

Procedure

Check the circuits between P/J413 on the MCU PWB and P/J541 (2TM) or P/J541 (TTM) on the Tray Module PWB (Flag 5, Flag 6) for an open circuit or short circuit failure. Repair as required.

077-300 IOT Front Cover Open RAP

BSD-ON:1.3

The IOT Front Cover is open.

Procedure

Check the opening/closing of the IOT Front Cover. **The Front Cover can be opened/closed.**

Y N

Reinstall the Front Cover.

Check the installation of the Front Cover Interlock Switch. **The Front Cover Interlock Switch is installed correctly.**

Y N

Install the Front Cover Interlock Switch correctly.

Execute Component Control [077-303 Front Cover Interlock Switch]. **Open/close the IOT Front Cover. The display changes.**

Y N

Check the connections between the Front Cover, Relay PWB, and the MCU PWB (BSD 1.3). **Connections are connected correctly.**

Y N

Connect the connectors.

Check the wire between the Front Cover, Relay PWB, and the MCU PWB (BSD 1.3 for an open circuit or a short circuit (BSD 1.3 Flag 5/Flag 6). **The wire are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Front Cover Interlock Switch (PL 12.1) between J141 and J410 (BSD 1.3). **The wire are connecting successfully when the Front Cover is closed.**

Y N

Replace the Front Cover Interlock Switch (PL 12.1).

Replace the MCU PWB (PL 11.1).

Check the paper transport drives and repair as required.

077-301 Left Hand Interlock Open RAP

BSD-ON:1.3/1.4

The L/H Cover Assembly is open.

Procedure

Check opening/closing of the L/H Cover Assembly. **The L/H Cover Assembly can be opened/closed.**

Y N
| Reinstall the L/H Cover Assembly (PL 2.6).

Check the installation of the L/H Cover Interlock Switch. **The L/H Cover Interlock Switch is installed correctly.**

Y N
| Install the L/H Cover Interlock Switch correctly.

Execute Component Control [077-300 L/H Cover Interlock Switch]. **Open and close the L/H Cover Assembly. The display changes.**

Y N
| Check the connections between the MCU PWB and the L.H. Cover Interlock (BSD 1.3). **Connectors are connected correctly.**

Y N
| Connect the connectors

Check the wire between P/J420 on the MCU PWB and the P/J135 on the L.H. Cover Interlock for an open circuit or a short circuit (BSD 1.3). **The wire are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the L/H Cover Interlock Switch (PL 2.7) between P/J135 and P/J420 (BSD 1.3). **The wire are connecting successfully when the L/H Cover Assembly is closed.**

Y N
| Replace the L/H Cover Interlock Switch (PL 2.7).

Measure the voltage between the MCU PWB P/J420-1 (+) and GND (-) (BSD 1.3). **The voltage is approx. +24VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the L/H Cover Interlock Switch P/J135-A2 (+) and GND (-) (BSD 1.3). **The voltage is approx. +24VDC.**

Y N
| Check the wire between P/J135 and P/J420 for an open circuit or a short circuit (BSD 1.3). Repair or replace as required.

Measure the voltage between the L/H Cover Interlock Switch P/J135-B2 (+) and GND (-) (BSD 1.3). **The voltage is approx. +24VDC.**

A
Y N
| Check the wire between P/J135 and P/J420 for an open circuit or a short circuit (BSD 1.3). Repair or replace as required.
| Replace the L/H Cover Interlock Switch (PL 2.7).
Check the paper transport drives and repair as required.

077-305 Tray Module Left Hand Cover Interlock Open RAP

BSD-ON:1.4

- The 2TM Cover is open.
- The TTM Cover is open.

Procedure

Check opening/closing of the Left Cover of the 2TM or TTM. **The Left Cover of the 2TM or TTM can be opened/closed.**

Y N

Reinstall the Left Cover of the 2TM or TTM (PL 14.5/PL 15.8).

Check the installation of the Tray Module Left Cover Interlock Switch. **The Tray Module Left Cover Interlock Switch is installed correctly.**

Y N

Install the Tray Module Left Cover Interlock Switch correctly (PL 14.5/PL 15.8).

Execute Component Control [077-306 Tray Module Left Cover Interlock Switch]. Open and close the Left Cover of the 2TM or TTM. **The display changes.**

Y N

Check the connections between the Tray Module PWB and the Tray Module Interlock (BSD 1.4). **Connectors are connected correctly.**

Y N

Connect the connectors

Check the wire between J554 on the Tray Module PWB and the FS812 on the Tray Module Interlock for an open circuit or a short circuit (BSD 1.4). **The wire are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Tray Module Switch between J554 and FS812 (BSD 1.4). **The wire are connecting successfully when the Tray Module is closed.**

Y N

Replace the Tray Module Switch (PL 14.5/PL 15.8).

Measure the voltage between the Tray Module PWB J554-2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Replace the Tray Module PWB (PL 14.7/PL 15.9).

Measure the voltage between the Tray Module SwitchFS812 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Check the wire between J554 and FS812 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Measure the voltage between the Tray Module SwitchFS813-B2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

A

Y N

Check the wire between FS813 and J554 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Replace the Tray Module Interlock Switch (PL 14.5/PL 15.8).

Replace the Tray Module PWB (PL 14.7/PL 15.9).

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077-307 DUP Cover Open RAP

BSD-ON:1.4

The DUP Cover is open.

Procedure

Check opening/closing of the DUP Cover. **The DUP Cover can be opened/closed.**

Y N
|
Reinstall the DUP Cover.

Check the installation of the Duplex Open Switch (PL 10.1). **The Duplex Open Switch is installed correctly.**

Y N
|
Install the Duplex Open Switch correctly.

Execute Component Control [077-305 Duplex Open Switch]. **Open and close the DUP Cover. The display changes.**

Y N
|
Check the connections between the Duplex PWB and the Duplex Open Interlock (BSD 1.4). **Connectors are connected correctly.**

Y N
|
Connect the connectors

Check the wire between J541 on the Duplex PWB and the J124 on the Duplex Open Switch for an open circuit or a short circuit (BSD 1.4). **The wire are conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Check the conductivity of the Duplex Open Switch between J124 and J541 (BSD 1.4). **The wire are connecting successfully when the Duplex Module is closed.**

Y N
|
Replace the Duplex Open Switch (PL 10.1).

Measure the voltage between the Duplex PWB J541-5 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N
|
Replace the Duplex PWB (PL 10.1).

Measure the voltage between the Duplex Open Switch J124-1 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N
|
Check the wire between J541 and J124 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Measure the voltage between the Duplex Open Switch J124-2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N
|
Check the wire between J124 and J541 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

A B
|
Replace the Duplex Open Switch (PL 10.1).

Check the paper transport drives and repair as required.

077-308 Left Hand High Interlock Open RAP

BSD-ON:1.4

The L/H-H Cover is open.

Procedure

Check opening/closing of the IOT L/H-H Cover. **The IOT L/H-H Cover can be opened/closed.**

Y N
| Reinstall the IOT L/H-H Cover.

Check the installation of the Exit 2 Interlock Switch. **The Exit 2 Interlock Switch is installed correctly.**

Y N
| Install the Exit 2 Interlock Switch correctly.

Execute Component Control [077-302 LHH Interlock Switch]. Open/close the IOT L/H-H Cover. **The display changes.**

Y N
| Check the connections between the MCU PWB and the LHH Interlock (BSD 1.4). **Connectors are connected correctly.**

Y N
| Connect the connectors

Check the wire between J422B on the MCU PWB and the J116 on the LHH Interlock Switch for an open circuit or a short circuit (BSD 1.4). **The wire are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Check the conductivity of the LHH Interlock Switch (PL 8.4) between J116 and J442B (BSD 1.4). **The wire are connecting successfully when the LHH Interlock Switch is closed.**

Y N
| Replace the LHH Interlock Switch (PL 8.4).

Measure the voltage between the MCU PWB J422B-8 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the LHH Interlock Switch J116-1 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Check the wire between J422B and J116 Terminal Block P/J606 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Measure the voltage between the LHH Interlock Switch J116-2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Replace the LHH Interlock Switch (PL 8.4).

A B
| Measure the voltage between the DET Face Up Tray Switch J115-2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Check the wire between J115 and J116 and the Terminal Block for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Measure the voltage between the DET Face Up Tray Switch J115-1 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Replace the DET Face Up Tray Switch (PL 8.4).

Measure the voltage between the MCU PWB J422B-6 (+) and GND (-) (BSD 1.4). **The voltage is approx. +5VDC.**

Y N
| Check the wire between J116 and J422B-6 and the Terminal Block for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Check for an intermittent Interlock Switch (BSD 1.4).

Check the paper transport drives and repair as required.

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077-309 Left Hand Low Interlock Open RAP

BSD-ON:1.4

The L/H Lower Cover is open.

Procedure

Check opening/closing of the Left Lower Back Cover. **The Cover can be opened/closed.**

Y N

Reinstall the Left Lower Back Cover (PL 2.6).

Check the installation of the LHL Switch. **The LHL Lower Cover Interlock Switch is installed correctly.**

Y N

Install the LHL Lower Cover Interlock Switch correctly.

Execute Component Control [077-301 LHL Lower Cover Interlock Switch]. Open/close the L/H Lower Cover. **The display changes.**

Y N

Check the connections between the MCU PWB and the LHL Interlock Switch (BSD 1.4). **Connectors are connected correctly.**

Y N

Connect the connectors

Check the wire between J424B on the MCU PWB and the J119 on the LHL Interlock Switch for an open circuit or a short circuit (BSD 1.4). **The wire are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the LHL Interlock Switch (PL 2.6) between J119 and J424B (BSD 1.4). **The wire are connecting successfully when the LHH Interlock Switch is closed.**

Y N

Replace the LHH Interlock Switch (PL 8.4).

Measure the voltage between the MCU PWB J422B-10 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 11.1).

Measure the voltage between the LHL Interlock Switch J119-2 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Check the wire between J422B and J119 Terminal Block P/J606 for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Measure the voltage between the LHL Interlock Switch J119-1 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Replace the LHL Interlock Switch (PL 8.4).

A B

Measure the voltage between the MCU PWB J422B-9 (+) and GND (-) (BSD 1.4). **The voltage is approx. +24VDC.**

Y N

Check the wire between J119 and J422B and the Terminal Block for an open circuit or a short circuit (BSD 1.4). Repair or replace as required.

Check for an intermittent Interlock Switch (BSD 1.4).

Check the paper transport drives and repair as required.

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077-314 Tray Module Logic RAP

BSD-ON:3.3

There is a Tray Module logic failure.

Procedure

Perform the following

- Switch the power off, disconnect and reconnect P/J541 on the Tray Module PWB, then on the power.
- Check the circuits between P/J125 on the MCU PWB and P/J541 (2TM) or P/J541 (TTM) on the Tray Module PWB (Flag 5, Flag 6) for an open circuit or short circuit failure. Repair as required.
- Perform ADJ 9.3.1 Software Loading and Upgrading.

077-602 OHP Sensor RAP

BSD-ON:8.7

A description is not available at time of publication

Procedure

A procedure is not available at time of publication.

077-900 Tray/Registration Sensor Jam RAP

BSD-ON:8.3, 8.7

Paper remains on the Registration Sensor.

Procedure

Enter Component Control [077-100 Registration Sensor]. Actuate the Registration Sensor (PL 2.5). **The display changes.**

Y N
Check the wires between P/J106 and P/J405 for an open circuit or a short circuit (BSD 8.7 Flag 1/Flag 2). **The circuit between P/J106 and P/J405 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB P/J405-8A (+) and P/J405-6A (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J405-A7 (+) and GND (-) (BSD 8.7 Flag 1).

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N
Replace the Registration Sensor (PL 2.5).

Replace the MCU PWB (PL 11.1).

Replace the MCU PWB (PL 11.1)

077-901 Fuser Exit Sensor Jam RAP

BSD-ON:10.2

Paper remains on the Fuser Exit Sensor.

Procedure

Execute Component Control [077-105 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 7.1). **The display changes.**

- Y N**
Check the connections of P/J125 and P/J410. **Connectors are connected correctly.**
- Y N**
Connect P/J125 and P/J410.
- Check the wire between J125 and J410 for an open circuit or a short circuit (BSD 10.2 Flag 5/Flag 6). **The wire is conducting without an open circuit or a short circuit.**
- Y N**
Repair the open circuit or short circuit.
- Measure the voltage between the MCU PWB P410-7 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**
- Y N**
Replace the MCU PWB (PL 11.1).
- Measure the voltage between the MCU PWB P410-9 (+) and GND (-) (BSD 10.2 Flag 5).
Actuate the Fuser Exit Sensor with paper. **The voltage changes.**
- Y N**
Replace the Fuser Exit Sensor (PL 7.1).
- Replace the MCU PWB (PL 11.1).
- Replace the MCU PWB (PL 11.1).

077-902 Exit Sensor 2 On Jam RAP

BSD-ON:10.3

Paper remains on the Exit 2 Sensor.

Procedure

Execute Component Control [077-102 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 8.4) with paper. **The display changes to L.**

Y N
Check the wire between J112 and J434 for an open circuit or a short circuit (BSD 10.3 Flag 1/Flag 2). **The wire between J112 and J434 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Exit 2 Sensor (PL 8.4) (PL 9.1).

Replace the Exit PWB (PL 9.1).

077-903 POB Sensor JAM RAP

BSD-ON:10.1

The POB Sensor is actuated.

Procedure

Check the circuit of the POB Sensor (BSD 10.1) and repair as required (PL 7.2).

077-907 Duplex Wait Sensor RAP

BSD-ON:10.6

Paper remains on the Duplex Sensor.

Procedure

Execute Component Control [077-104 Duplex Sensor]. Actuate the Duplex Sensor (PL 10.1) with paper. **The display changes to L.**

Y **N**
|
Check the wire between J123 and J541 for an open circuit or a short circuit (BSD 10.6 Flag 1/Flag 2). **The wire between J123 and J541 is conducting without an open circuit or a short circuit.**

Y **N**
|
Repair the open circuit or short circuit.

Replace the Duplex Sensor (PL 10.1) If the problem persists, replace the Duplex PWB (PL 10.1).

Replace the Duplex PWB (PL 10.1).

077-967 Paper Kind Mismatch RAP

The specified paper type and the paper type being used are different.

Initial Actions

Perform the following:

- Switch the power off then on.
- Check if the Regi Sensor actuator is operating properly.
- Check the paper type.
- Check the paper type settings.

Procedure

Load the paper type selected. If problem still exists, replace the MCU PWB (PL 11.1).

077-968 Paper Type Changed RAP

The type of paper in the tray was changed.

Initial Actions

Perform the following:

- Switch the power off then on.
- Check if the Regi Sensor actuator is operating properly.
- Check the paper type.
- Check the paper type settings.

Procedure

Load the paper type selected. If problem still exists, replace the MCU PWB (PL 11.1).

078-210 TTM Tray 2 Lift RAP

BSD-ON:7.11

The Tray 2 Level Sensor did not actuate in time after the Tray 2 Feed/Lift Motor energized.

Initial Actions

Ensure the tray is set up and loaded correctly.

Procedure

Execute Component Control [072-001 or 002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor /PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N
Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 15.6).
Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [072-001/002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N
Return the Tray 1 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.
Replace the Tray 2 Feed/Lift Motor (PL 15.6).

Check the installation of the Tray 2 Level Sensor (PL 15.6) and the operation of the actuator.
The Tray 2 Level Sensor is installed correctly and the actuator works.

Y N
Reinstall the Tray 2 Level Sensor (PL 15.6).

Execute Component Control [072-103 Tray 2 Level Sensor]. Manually activate the Tray 2 Level Sensor (PL 15.6). **The display changes.**

Y N
Check the connections of P/J101B, P/J611 and P/J549. **P/J102A, P/J611 and P/J409 are connected correctly.**

Y N
Connect P/J101B, P/J611 and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.11 Flag 2 Flag 3). **The wires between P/J101B and P/J549 are conducting without an open circuit or a short circuit.**

A

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-22 (+) and P/J549-23 (-) (BSD 7.11 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-24 (+) and GND (-) (BSD 7.11 Flag 2).

Activate the actuator of the Tray 2 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 2 Level Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Check the paper transport drives and repair as required (PL 2.3, PL 15.9).

A

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078-211 TTM Tray 3 Lift RAP

BSD-ON:7.12

The TTM-Tray 3 Level Sensor did not actuate in time after the TTM-Tray 3 Feed/Lift Motor energized.

Initial Actions

Reload paper in the tray correctly.

Procedure

Enter Component Control [073-001 or 002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
| Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N
| Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 15.6) and the Tray 2 Feed/Lift Motor (PL 15.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-001 or 002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
| Return the Tray 2 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 15.6).

Check the installation of the Tray 3 Level Sensor (PL 15.6) and the operation of the actuator.

The Tray 3 Level Sensor is installed correctly and the actuator works.

Y N
| Reinstall the Tray 3 Level Sensor.

Enter Component Control [073-102 Tray 3 Level Sensor]. Manually activate the Tray 3 Level Sensor (PL 15.6). **The display changes.**

Y N
| Check the connections of P/J101B, P/J661B and P/J549. **P/J101B, P/J661B and P/J549 are connected correctly.**

Y N
| Connect P/J101B, P/J661B and P/J549.

A B
| Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD BSD 7.12 Flag 2/Flag 3). **The circuit between J101B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-7 (+) and P/J549-8 (-) (BSD BSD 7.12 Flag 3). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-9 (+) and GND (-) (BSD 7.12 Flag 2).

Activate the actuator of the Tray 3 Level Sensor (PL 15.6). **The voltage changes.**

Y N
| Replace the Tray 3 Level Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Check the paper transport drives and repair as required (PL 14.3, PL 15.9).

078-500 Write to HCF-ROM error detection (During DLD method)

An error has occurred during the process of writing data to the HCF-ROM. (During DLD method)

Procedure

Retry job. If retry failed, replace the HCF-ROM and perform VerUP operation on the DLD method again.

078-940 Tray Lift RAP

BSD-ON:7.11

There is a problem with one of the following:

- TTM Tray 2 Lift
- 2TM Tray 1, Tray 2, or Tray 3 Lift

Procedure

The machine is equipped with a TTM tray module.

Y N

Tray 1 is the problem.

Y N

Tray 2 is the problem

Y N

Go to the 073-210 Tray 3 Lift Up RAP.

Go to the 072-210 Tray 2 Lift Up RAP

Go to the 071-210 Tray 1 Lift Up RAP.

Enter Component Control [072-001 or 002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Check the connections of P/J220B, P/J661B and P/J549. **P/J220B, P/J661B and P/J549 are connected correctly.**

Y N

Connect P/J220B, P/J661B and P/J549.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 15.6).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control [072-001 or 002 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor can be heard (the lifted paper plate drops when the tray is opened).**

Y N

Return the Tray 1 Feed/Lift Motor to its original position.

Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.11 Flag 1). **The circuit between P/J220B and P/J549 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 15.9).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 15.6).

Execute Component Control [072-103 Tray 2 Level Sensor]. Manually activate the Tray 2 Level Sensor (PL 15.6). **The display changes.**

Y N
Check the connections of P/J101B, P/J661B and P/J549. **P/J102A, P/J661B and P/J409 are connected correctly.**

Y N
Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.11 Flag 2 Flag 3). **The wires between P/J101B and P/J549 are conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the Tray Module PWB P/J549-22 (+) and P/J549-23 (-) (BSD 7.11 Flag 3). **The voltage is approx. +5VDC.**

Y N
Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-24 (+) and GND (-) (BSD 7.9 Flag 2/7.11 Flag 2).

Activate the actuator of the Tray 2 Level Sensor (PL 2.3). **The voltage changes.**

Y N
Replace the Tray 2 Level Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Check the TTM paper lift components and repair as required (PL 15.3, PL 15.6, PL 15.9).

078-941 TTM Tray 3 Lift RAP

BSD-ON:7.11

There is a problem with the TTM Tray 3 Lift.

Procedure

Enter Component Control [073-001 or 002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
| Check the connections of P/J220B, P/J661B, P/J549. **P/J220B, P/J661B, P/J549 are connected correctly.**

Y N
| Connect P/J220B, P/J661B, P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 15.6) and the Tray 2 Feed/Lift Motor (PL 15.6).
Replace the Tray 3 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Enter Component Control [073-001 or 002 Tray 3 Feed/Lift Motor ON]. **The Tray 3 (2) Feed/Lift Motor (PL 15.6) can be heard (the lifted paper plate drops when the tray is opened).**

Y N
| Return the Tray 2 Feed/Lift Motor to its original position.
Check the wires between P/J220B and P/J549 for an open circuit or a short circuit (BSD 7.12 Flag 1). **The circuit between J220B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the Tray Module PWB (PL 15.9).

Return the Tray 2 Feed/Lift Motor to its original position.
Replace the Tray 3 Feed/Lift Motor (PL 15.6).

Check the installation of the Tray 3 Level Sensor (PL 15.6) and the operation of the actuator.
The Tray 3 Level Sensor is installed correctly and the actuator works.

Y N
| Reinstall the Tray 3 Level Sensor (PL 15.6).

Enter Component Control [073-102 Tray 3 Level Sensor]. Manually actuate the Tray 3 Level Sensor (PL 15.6). **The display changes.**

Y N
| Check the connections of P/J101B, P/J661B and P/J549. **P/J101B, P/J661B and P/J549 are connected correctly.**

Y N
| Connect P/J101B, P/J661B and P/J549.

Check the wires between P/J101B and P/J549 for an open circuit or a short circuit (BSD 7.12 Flag 2/Flag 3). **The circuit between J101B and J549 is conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

A B
| Measure the voltage between the Tray Module PWB P/J549-7 (+) and P/J549-8 (-) (BSD 7.12 Flag 3). **The voltage is approx. +5VDC.**

Y N
| Replace the Tray Module PWB (PL 15.9).

Measure the voltage between the Tray Module PWB P/J549-9 (+) and GND (-) (BSD 7.12 Flag 2).

Activate the actuator of the Tray 3 Level Sensor (PL 15.6). **The voltage changes.**

Y N
| Replace the Tray 3 Level Sensor (PL 15.6).

Replace the Tray Module PWB (PL 15.9).

Check the TTM paper lift components and repair as required (PL 15.3, PL 15.6, PL 15.9).

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081-799 Registered Destination RAP

BSD-ON:17.1

The Fax Send destination telephone number is not registered in the Address Book.

Initial Actions

Check the entries in the Address Book.

Check the Send destination telephone number and repeat the operation.

Procedure

Pull out and insert the FCB PWB (PL 9.3) Switch on the power. **The problem persists The problem persists.**

Y N
| Return to Service Call Procedures.

Check the connection of each FCB PWB (PL 9.3)connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the FCB PWB (PL 9.3).

089-311 IOT Belt Home RAP

BSD-ON:9.2

IBT Belt Home failed too long.

Procedure

Check the IBT Belt Patch for scratches. **The Patch is OK.**

Y	N
	Replace the IBT Belt (PL 6.2)

If the problem continues, replace the IBT Assembly (PL 6.1).

089-312 IOT Belt Home RAP

BSD-ON:9.2

IBT Belt Home failed too short.

Procedure

Check the IBT Belt Patch for contamination. **The Patch is OK.**

Y	N
	Clean the Patch. If the problem continues, replace the IBT Belt (PL 6.2)

If the problem continues, replace the IBT Assembly (PL 6.1).

089-630 IOT Belt Speed RAP

IBT Belt speed failure.

Procedure

Check the following for binding:

- Fuser/ Main Drive (BSD 4.1A, 4.1B)
- Drum/IBT Auger Drives (BSD 4.2A, 4.2B)
- Developer Drive (BSD 4.3A)
- Registration (BSD 8.7)
- 1st BTR (BSD 9.5)
- 2BTR (BSD 9.7)
- IBT Belt and Cleaning (BSD 9.8)
- Fuser (BSD 10.3)
- Exit Transportation (BSD 10.4)
- Duplexing (BSD 10.6)

089-631 Belt Slip RAP

BSD-ON:9.8

IBT Belt slippage.

Initial Actions

Ensure that the IBT Belt tensioner is engaged.

Procedure

Execute Component Control [042-001 Main Motor]. Check the IBT Belt for slipping. **The IBT Belt is OK.**

Y N

Check the IBT Belt Assemblies for contamination, binding, and/or wear. **IBT Belt Assembly is OK.**

Y N

Replace the IBT Belt Assembly (PL 6.1).

Replace the IBT Belt (PL 6.2).

If the problem continues, replace the IBT Belt (PL 6.2). If the problem persists, replace the IBT Belt Assembly (PL 6.1).

089-632 IBT Belt Cleaner RAP

BSD-ON:9.8/9.9

IBT Belt Cleaner Impact Failure.

Procedure

Remove the IBT Cleaner Assembly and check the cleaner blade and auger area for impacted toner. **The IBT Belt Cleaner is free of toner.**

Y N
| Clean the IBT Belt Cleaner Assembly. If the problem continues, replace the IBT Belt Cleaner (PL 6.1).

Check the Toner Waste area for impacted toner. **The Waste Toner area is free of tone.**

Y N
| Replace the Waste Toner Bottle (PL 4.1).

Check the Front Auger for impacted toner. Clean or replace as required (PL 6.1).

089-633 2nd BTR RAP

BSD-ON:9.7

The 2nd BTR impacted Failure

Procedure

Check the 2nd BTR, Backup Roll, and the Detact Saw for impacted toner. **The 2nt BTR area is free of toner.**

Y N
| Clean and/or replace the 2nd BTR Assembly (PL 2.7).

Check the 2nd BTR area for contamination, binding or wear. Repair or replace the 2nd BTR Assembly (PL 2.7).

091-313 Xero CRUM Communication RAP

BSD-ON:9.1

There is a failure within the Xero CRUM Control Logic on the MCU PWB.

Procedure

Pull out and reinstall all the Drum Cartridge. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the MCU PWB (PL 11.1).

091-400 Waste Toner Near Full RAP

BSD-ON:9.9

The Waste Toner Bottle is near full.

Procedure

Check the contents level of the Waste Toner Bottle. **The Waste Toner Bottle near full indication is correct.**

Y N

Verify the condition of the circuit (BSD9.9) between the Waste Toner Bottle Full Sensor and MCU PWB. **The circuit is free of damage.**

Y N

Repair the circuit as required.

Ensure the Waste Toner Bottle is installed correctly. Then check Waste Toner Bottle Full Sensor operating voltage and output. **The signal level voltage indicates the Waste Toner Bottle is near full.**

Y N

Replace the MCU PWB (PL 11.1).

There is a problem with the sensor. Repair or replace the Waste Toner Full Sensor (PL 4.2).

There is no need for service at this time. Return to Service Call Procedures.

091-402 Drum Life Over RAP

The Drum Cartridge must be replaced.

Procedure

Check the HSFI counter. **The usage is correct for the life expectancy of the drum.**

Y N

| There is no need for service at this time. Return to Service Call Procedures.

Replace the Drum Cartridge (PL 4.1).

091-441 Drum Life Near End of Life RAP

The Drum Cartridge must be replaced soon.

Procedure

Check the HSFI counter. **The usage is correct for the life expectancy of the drum.**

Y N

| There is no need for service at this time. Return to Service Call Procedures.

Replace the Drum Cartridge (PL 4.1).

091-910 Waste Toner Bottle Position RAP

BSD-ON:9.9

The Waste Toner Bottle is not in the correct position.

Procedure

Check the installation of the Waste Toner Bottle. **Waste Toner Bottle installation is correct.**

Y N

Correct the installation problem by checking for damaged mounting points.

Verify the condition of the circuit, BSD9.9, between the Waste Toner Position Sensor and MCU PWB. **The circuit is free of damage.**

Y N

Repair the circuit as required.

Ensure the Waste Toner Bottle is installed correctly. Then check Waste Toner Bottle sensor operating voltage and output. **The signal level voltage indicates the Waste Toner Bottle is correctly installed.**

Y N

There is a problem with the sensor. Repair or replace the Waste Toner Position Sensor (PL 4.2).

Replace the MCU PWB (PL 11.1).

091-911 Waste Toner Full RAP

BSD-ON:9.9

The Waste Toner Bottle is full.

Procedure

Check the contents level of the Waste Toner Bottle. **The Waste Toner Bottle is full.**

Y N

Verify the condition of the circuit, BSD9.9, between the Waste Toner Bottle Sensor and MCU PWB. **The circuit is free of damage.**

Y N

Repair the circuit as required.

Ensure the Waste Toner Bottle is installed correctly. Then check Waste Toner Bottle Full Sensor operating voltage and output. **The signal level voltage indicates the Waste Toner Bottle is full.**

Y N

Replace the MCU PWB (PL 11.1).

There is a problem with the sensor. Repair or replace the Waste Toner Full Sensor (PL 4.2).

Replace the Waste Toner Bottle. If the problem persists, return to the beginning of the RAP.

091-912 Xerographics Drum Module Installation RAP

BSD-ON:9.1/4.1

The Xerographics Drum is not installed.

Procedure

Check the installation of the Drum Cartridge (PL 4.1). **The Drum Cartridge installation is correct.**

Y N
| Correct the installation (PL 4.1).

Verify the condition of the circuit between the Drum Cartridge Position Sensor and MCU PWB. **The circuit is free of damage.**

Y N
| Repair the circuit as required.

Replace the MCU PWB (PL 11.1).

091-914 Xero CRUM Comm RAP

BSD-ON:9.1

There is a failure with communication between the Xero CRUM and MCU PWB.

Procedure

Pull out and reinstall the Xerographics Drum Module. **The problem persists.**

Y N
| Return to Service Call Procedures.

Verify the connections and condition of the circuit between Xero CRUM and MCU PWB. **The circuit is free of damage and the connections are good.**

Y N
| Repair the damage as required.

Check CRUM operating voltage. **The operating voltage is correct.**

Y N
| Check the circuit for damage. If the circuit is free of damage replace the MCU PWB (PL 11.1).

Enter diagnostics and verify NVM value for Xero CRUM data, location [751-010]. If NVM value indicates failure replace Xerographics Drum Module (PL 4.1) If NVM value indicates no failure, replace the MCU PWB (PL 11.1).

091-915 Xero CRUM Data RAP

BSD-ON:9.1

The Control Logic detected incorrect data on the Xero CRUM.

Initial Actions

Check NVM location 740-047, for Geographic area:

- NA/EU = 3
- DMO-E/W = 12
- All the World = 512

Check NVM location 740-049, for Contact Type:

- Metered = 3
- Sold = 2
- Neutral = 31

Procedure

Pull out and reinstall the Xerographics Drum Module. **The problem persists.**

Y N
|
Return to Service Call Procedures.

An incorrect Xerographics Drum Module was just installed. Install the correct Xerographics Drum Module.

091-916 Xero CRUM Match RAP

BSD-ON:9.1

The Control Logic detected mismatched data on the Xero CRUM.

Initial Actions

Check NVM location 740-047, for Geographic area:

- NA/EU = 3
- DMO-E/W = 12
- All the World = 512

Check NVM location 740-049, for Contact Type:

- Metered = 3
- Sold = 2
- Neutral = 31

Procedure

Pull out and reinstall the Xerographics Drum Module. **The problem persists.**

Y N
|
Return to Service Call Procedures.

An incorrect Xerographics Drum Module was installed. Verify the position of the Xerographics Drum Module. Install the correct Xerographics Drum Module.

091-921 Xerographics Drum Module Installation RAP

BSD-ON:9.1/1.4

The Xerographics Drum Module is not correctly installed.

Procedure

Check the installation of the Xerographics Drum Module (PL 4.1). **The Xerographics Drum Module installation is correct.**

Y N
Correct the installation problem by checking for damaged mounting points or similar problems (PL 4.1)

Verify the condition of the circuit between the Xero Interlock Switch and MCU PWB. **The circuit is free of damage.**

Y N
Repair the circuit as required.

Replace the MCU PWB (PL 11.1).

091-935 Xero Drum Cartridge End of Life RAP

BSD-ON:9.1

It is time to replace the Xero Drum Cartridge.

Initial Actions

- Power Off/On
- Reload the Xero Drum Cartridge.

Procedure

Check the Xero Drum Cartridge for failure or foreign substances. **There are no foreign substances and nothing has failed.**

Y N
Repair the failure and remove the foreign substances.

Check the installation of the XERO CRUM PWB. **The XERO CRUM PWB is installed correctly.**

Y N
Install the XERO CRUM PWB correctly (PL 4.1).

Check the connection of the MCU PWB P/J407. **P/J407 is connected correctly.**

Y N
Connect P/J407.

Check the connection of the XERO CRUM PWB P/J142. **P/J142 is connected correctly.**

Y N
Connect P/J142.

Check the wire between J407 and P142 for an open circuit or a short circuit (BSD 9.1). **The wire is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between the MCU PWB J407-1 (+) and GND (-) (BSD 9.1). **The voltage is approx. +5VDC.**

Y N
Replace the MCU PWB (PL 11.1).

Replace the Xero Drum Cartridge (PL 4.1) If the problem persists, replace the XERO CRUM PWB (PL 4.1) If the problem persists, replace the MCU PWB (PL 11.1).

092-310 ADC Sensor RAP

BSD-ON:9.4B

There is a failure in the ADC Sensor circuit.

Initial Actions

Replace the Black (K), Yellow (Y), Magenta (M), and/or Cyan (C) toner if empty (PL 5.2).

When NVM 752-094 is set to "1", the NVM 752-121 needs to be cleared to "0". When, NVM 752-121 is cleared to "0", NVM 752-094 will be automatically cleared to "0". Then, the fault code 092-310 can be cleared. For more information, go to GP 15.

Procedure

Check for an Image Quality Defect. **An Image Quality Defect is present.**

Y N
Verify the condition of the circuit between the ADC Sensor and MCU PWB. **The circuit is free of damage.**
Y N
Repair the circuit as required.
Check the operating voltages between the ADC Sensor and the MCU PWB. **The voltages are correct.**
Y N
Replace the MCU PWB (PL 11.1).
Replace the Sensor Bar Assembly (PL 11.1).

The defect is Low Image Density or Uneven Density.

Y N
The defect is Background
Y N
Verify the condition of the circuit between the ADC Sensor and MCU PWB. **The circuit is free of damage.**
Y N
Repair the circuit as required.
Check the operating voltages between the ADC Sensor and the MCU PWB. **The voltages are correct.**
Y N
Replace the MCU PWB (PL 11.1).
Replace the Sensor Bar Assembly (PL 11.1).
Go to IQ 6 to troubleshoot IOT background.

Go to IQ 3 to troubleshoot Low Image Density or Uneven Density.

092-934 Print Count RAP

A run control error occurred counting prints.

Procedure

If several 092-934 faults are logged, replace the MCU PWB (PL 11.1).

092-649 ADC Shutter Open RAP

BSD-ON:9.4A

The ADC Shutter failed to open.

Procedure

Remove the Sensor Bar Assembly (PL 11.1). Check the operation of the shutter. If the shutter cannot be repaired, replace the Sensor Bar Assembly (PL 11.1).

092-650 ADC Shutter Close RAP

BSD-ON:9.4A

The ADC Shutter failed to close.

Procedure

Remove the Sensor Bar Assembly (PL 11.1). Check the operation of the shutter. If the shutter cannot be repaired, replace the Sensor Bar Assembly (PL 11.1).

092-651 ADC Shutter Clean RAP

BSD-ON:9.4A

There is an ADC Sensor Voltage level failure.

Procedure

Remove the Sensor Bar Assembly (PL 11.1). Check the condition of the Sensor Bar Assembly. **The ADC Assembly is free of damage.**

Y N
| Replace the Sensor Bar Assembly (PL 11.1).

Check the operating voltages between the ADC Sensor and the MCU PWB. **The voltages are correct.**

Y N
| Replace the MCU PWB (PL 11.1).

Replace the Sensor Bar Assembly (PL 11.1).

092-661 Temperature Sensor RAP

BSD-ON:9.4A

There is a temperature sensor failure.

Procedure

Check the operating voltages between the Temperature/Humidity Sensor and the MCU PWB. **The voltages are correct.**

Y N
| Verify that the circuit is not damaged. If no damage is found, replace the MCU PWB (PL 11.1).

Replace the Temperature/Humidity Sensor (PL 11.1).

092-662 Humidity Sensor RAP

BSD-ON:9.4A

There is a humidity sensor failure.

Procedure

Check the operating voltages between the Temperature/Humidity Sensor and the MCU PWB.

The voltages are correct.

Y

N

Verify that the circuit is not damaged. If no damage is found, replace the MCU PWB (PL 11.1).

Replace the Temperature/Humidity Sensor (PL 11.1).

093-310 Rotary Position Failure

BSD-ON: 9.3

The Rotary Assembly failed to stop at the predetermined position.

Initial Actions

- Power OFF/ON

Procedure

Manually move the Rotary Assembly (PL 5.1). Open the Front Cover (PL 12.1). Open the Toner Cartridge Door (PL 5.1). Engage the Rotary Shaft Lock (PL 5.1) manually move the Rotary Assembly in a clockwise direction. **The Rotary Assembly moves in the clockwise direction.**

Y N
| Check the Rotary Assembly area for binding.

Enter Component Control [093-200] Rotary Home Position Sensor. Manually move the Rotary Assembly in a clockwise direction. **The Display changes.**

Y N
| Measure the voltage between P/J409 pins A3 and A1. **The voltage is approx. +5VDC.**
Y N
| Go to BSD 1.2A and troubleshoot the +5VDC circuit.

Check the wiring of the Rotary Home Position Sensor. If the wiring is OK, replace the Rotary Home Position Sensor (PL 5.1). If the problem continues, replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J411-5 (+) and GND (-) (BSD 9.3). **The voltage is approx. +24VDC.**

Y N
| Verify that fuse F3 on the MCU PWB is good (BSD 1.2A). **Fuse F3 is good.**

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the Power Unit P/J510-2 (+) and GND (-) (BSD 1.2A). **The voltage is approx. +24VDC.**

Y N
| Replace the Power Unit (PL 11.1).

Check the +24V wiring between P/J510 on the Power Unit and P/J400 on the MCU PWB for an open circuit or a short circuit. (BSD 1.2A). **The wires are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Replace the Rotary Motor (PL 5.1).

093-311 Rotary Assembly Failure

BSD-ON: 9.3

The Rotary Assembly failed to start.

Initial Actions

- Power OFF/ON

Procedure

Manually move the Rotary Assembly (PL 5.1). Open the Front Cover (PL 12.1). Open the Toner Cartridge Door (PL 5.1). Engage the Rotary Shaft Lock (PL 5.1) manually move the Rotary Assembly in a clockwise direction. **The Rotary Assembly moves in the clockwise direction.**

Y N
| Check the Rotary Assembly area for binding.

Enter Component Control [093-200] Rotary Home Position Sensor. Manually move the Rotary Assembly in a clockwise direction. **The Display changes.**

Y N
| Measure the voltage between P/J409 pins A3 and A1. **The voltage is approx. +5VDC.**
Y N
| Go to BSD 1.2A and troubleshoot the +5VDC circuit.

Check the wiring of the Rotary Home Position Sensor. If the wiring is OK, replace the Rotary Home Position Sensor (PL 5.1). If the problem continues, replace the MCU PWB (PL 11.1).

Measure the voltage between the MCU PWB P/J411-5 (+) and GND (-) (BSD 9.3). **The voltage is approx. +24VDC.**

Y N
| Verify that fuse F3 on the MCU PWB is good (BSD 1.2A). **Fuse F3 is good.**

Y N
| Replace the MCU PWB (PL 11.1).

Measure the voltage between the Power Unit P/J510-2 (+) and GND (-) (BSD 1.2A). **The voltage is approx. +24VDC.**

Y N
| Replace the Power Unit (PL 11.1).

Check the +24V wiring between P/J510 on the Power Unit and P/J400 on the MCU PWB for an open circuit or a short circuit. (BSD 1.2A). **The wires are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Replace the MCU PWB (PL 11.1).

Replace the Rotary Motor (PL 5.1).

093-320 Developer Motor Failure RAP

BSD-ON:4.3A

The Developer Motor is not rotating at the specified speed.

Initial Actions

- Power OFF/ON
- Reload the Xero/Developer Cartridge (PL 4.1)

Procedure

Execute Component Control [042-004 Developer Motor ON]. **The Developer Motor can be heard.**

Y N
| Go to the OF 5 (Developer Drive ASSY RAP).

Check the installation of the Developer Drive Assembly (PL 1.1). **The Developer Drive Assembly is installed correctly.**

Y N
| Install the Developer Drive Assembly correctly.

Check the wire between P/J409 and P/J213 for an open circuit or a short circuit (BSD 4.3A). **The wires are conducting without an open circuit or a short circuit.**

Y N
| Repair the open circuit or short circuit.

Manually rotate the Developer Motor rotor. **It rotates smoothly.**

Y N
| Check for foreign substances that are interfering with operation or installation failure. **Foreign substances or installation failure are found.**

Y N
| Replace the Developer Drive Assembly (PL 1.1).

Remove the foreign substances that are interfering with operation and correct the installation failure.

Replace the Developer Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

093-400 Black Toner Near Empty

Black Toner Cartridge is near empty

Procedure

Check the following:

- Replace the Black Toner Cartridge if empty (PL 5.2)
- That the Black Toner Cartridge is inserted properly
- For Black Toner spills in the machine

093-406 Black Toner Pre-Near Empty

Black Toner Cartridge is Pre-near empty

Procedure

Check the following:

- Replace the Black Toner Cartridge if empty (PL 5.2)
- That the Black Toner Cartridge is inserted properly
- For Black Toner spills in the machine

093-407 Y Toner Pre-Near Empty

Yellow Toner Cartridge is Pre-near empty

Procedure

Check the following:

- Replace the Yellow Toner Cartridge if empty (PL 5.2)
- That the Yellow Toner Cartridge is inserted properly
- For Yellow Toner spills in the machine

093-408 M Toner Pre-Near Empty

Magenta Toner Cartridge is Pre-near empty

Procedure

Check the following:

- Replace the Magenta Toner Cartridge if empty (PL 5.2)
- That the Magenta Toner Cartridge is inserted properly
- For Magenta Toner spills in the machine

093-409 C Toner Pre-Near Empty

Cyan Toner Cartridge is Pre-near empty

Procedure

Check the following:

- Replace the Cyan Toner Cartridge if empty (PL 5.2)
- That the Cyan Toner Cartridge is inserted properly
- For Cyan Toner spills in the machine

093-414 Y Developer Housing is near End of Life

Y Developer Housing is near end of life.

Procedure

Replace the Yellow Developer Housing (PL 5.1) (REP 4.1.1).
Go to Detailed Maintenance Activities and reset the Yellow Developer HFSI (954-831).

093-415 M Developer Housing is near End of Life

M Developer Housing is near end of life.

Procedure

Replace the Magenta Developer Housing (PL 5.1) (REP 4.1.1).
Go to Detailed Maintenance Activities and reset the Magenta Developer HFSI (954-832).

093-416 C Developer Housing is near End of Life

C Developer Housing is near end of life.

Procedure

Replace the Cyan Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Cyan Developer HFSI (954-833).

093-417 K Developer Housing is near End of Life

K Developer Housing is near end of life.

Procedure

Replace the Black Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Black Developer HFSI (954-830).

093-418 Y Developer Housing is Over End of Life

Y Developer Housing is over end of life.

Procedure

Replace the Yellow Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Yellow Developer HFSI (954-831).

093-419 M Developer Housing is Over End of Life

M Developer Housing is over end of life.

Procedure

Replace the Magenta Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Magenta Developer HFSI (954-832).

093-420 C Developer Housing is Over End of Life

C Developer Housing is over end of life.

Procedure

Replace the Cyan Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Cyan Developer HFSI (954-833).

093-421 K Developer Housing is Over End of Life

K Developer Housing is over end of life.

Procedure

Replace the Black Developer Housing (PL 5.1) (REP 4.1.1).

Go to Detailed Maintenance Activities and reset the Black Developer HFSI (954-830).

093-423 Y Toner Near Empty

Yellow Toner Cartridge is near empty

Procedure

Check the following:

- Replace the Yellow Toner Cartridge if empty (PL 5.2)
- That the Yellow Toner Cartridge is inserted properly
- For Yellow Toner spills in the machine

093-424 M Toner Near Empty

Magenta Toner Cartridge is near empty

Procedure

Check the following:

- Replace the Magenta Toner Cartridge if empty (PL 5.2)
- That the Magenta Toner Cartridge is inserted properly
- For Magenta Toner spills in the machine

093-425 C Toner Near Empty

Cyan Toner Cartridge is near empty

Procedure

Check the following:

- Replace the Cyan Toner Cartridge if empty (PL 5.2)
- That the Cyan Toner Cartridge is inserted properly
- For Cyan Toner spills in the machine

093-912 Black Toner Empty

Black Toner Cartridge is Empty.

Initial Actions

Check the following:

- Replace the Black Toner Cartridge if empty (PL 5.2)
- Ensure that the Black Toner Cartridge is inserted properly
- For Black Toner spills in the machine

Procedure

Check for Image Quality Defects. **An Image Quality Defect is present.**

Y N
|
Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.

The Defect is Low Image Density or Uneven Density.

Y N
|
The Defect is Background.
Y N
|
Run ProCon On (ADJ 9.1.10) and follow the Corrective Actions.
|
Go to IQ6 and troubleshoot IOT Background.

Go to IQ3 and troubleshoot Low Image Density or Uneven Density.

093-916 Toner K CRUM not in position Failure

BSD-ON:9.1

K Toner CRUM not in position Failure.

Initial Actions

- Ensure that the Black Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-970 (Y), 093-971 (M), and 093-972 (C) are also present on the UI.

Y	N
	Replace the Black Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-924 Toner K Crum Communication Failure

BSD-ON:9.1

K Toner CRUM Comm Failure.

Initial Actions

- Ensure that the Black Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-940 (Y), 093-941 (M), and 093-942 (C) are also present on the UI.

Y	N
	Replace the Black Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-925 Toner K Crum Data Broken Failure

BSD-ON:9.1

Initial Actions

- Ensure that the Black Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-950 (Y), 093-951 (M), and 093-952 (C) are also present on the UI.

Y N
| Replace the Black Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-926 Toner K Crum Data Mismatch Failure

BSD-ON:9.1

Initial Actions

- Ensure a Black Toner Cartridge is installed in the Black position in the Rotary
- Ensure the correct toner cartridge for this product is installed
- Ensure that the Black Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-960 (Y), 093-961 (M), and 093-962 (C) are also present on the UI.

Y N
| Replace the Black Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-940 Toner Y CRUM Communication Failure

BSD-ON:9.1

Y Toner CRUM Comm Failure.

Initial Actions

- Ensure that the Yellow Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-924 (K), 093-941 (M), and 093-942 (C) are also present on the UI.

Y	N
	Replace the Yellow Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-941 Toner M CRUM Communication Failure

BSD-ON:9.1

M Toner CRUM Comm Failure.

Initial Actions

- Ensure that the Magenta Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-924 (K), 093-940 (Y), and 093-942 (C) are also present on the UI.

Y	N
	Replace the Magenta Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-942 Toner C CRUM Communication Failure

BSD-ON:9.1

C Toner CRUM Comm Failure.

Initial Actions

- Ensure that the Cyan Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-924 (K), 093-940 (Y), and 093-941 (M) are also present on the UI.

Y	N
	Replace the Cyan Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-950 Toner Y CRUM Data Broken Failure

BSD-ON:9.1

Y Toner CRUM Data Broken Failure.

Initial Actions

- Ensure that the Yellow Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-925 (K), 093-951 (M), and 093-952 (C) are also present on the UI.

Y	N
	Replace the Yellow Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-951 Toner M CRUM Data Broken Failure

BSD-ON:9.1

M Toner CRUM Data Broken Failure.

Initial Actions

- Ensure that the Magenta Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-925 (K), 093-950 (Y), and 093-952 (C) are also present on the UI.

Y	N
	Replace the Magenta Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-952 Toner C CRUM Data Broken Failure

BSD-ON:9.1

C Toner CRUM Data Broken Failure.

Initial Actions

- Ensure that the Cyan Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-925 (K), 093-950 (Y), and 093-951 (M) are also present on the UI.

Y	N
	Replace the Cyan Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-960 Toner Y CRUM Data Mismatch Failure

BSD-ON:9.1

Y Toner CRUM Data Mismatch Failure.

Initial Actions

- Ensure a Yellow Toner Cartridge is installed in the Yellow position in the Rotary
- Ensure the correct toner cartridge for this product is installed
- Ensure that the Yellow Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-926 (K), 093-961 (M), and 093-962 (C) are also present on the UI.

Y	N
	Replace the Yellow Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).
If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-961 Toner M CRUM Data Mismatch Failure

BSD-ON:9.1

M Toner CRUM Data Mismatch Failure.

Initial Actions

- Ensure a Magenta Toner Cartridge is installed in the Magenta position in the Rotary
- Ensure the correct toner cartridge for this product is installed
- Ensure that the Magenta Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-926 (K), 093-960 (Y), and 093-962 (C) are also present on the UI.

Y	N
	Replace the Magenta Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).
If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-962 Toner C CRUM Data Mismatch Failure

BSD-ON:9.1

C Toner CRUM Data Mismatch Failure.

Initial Actions

- Ensure a Cyan Toner Cartridge is installed in the Cyan position in the Rotary
- Ensure the correct toner cartridge for this product is installed
- Ensure that the Cyan Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-926 (K), 093-960 (Y), and 093-961 (M) are also present on the UI.

Y N

Replace the Cyan Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-970 Toner Y CRUM not in position Failure

BSD-ON:9.1

Y Toner CRUM not in position Failure.

Initial Actions

- Ensure that the Yellow Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-916 (K), 093-971 (M), and 093-972 (C) are also present on the UI.

Y N

Replace the Yellow Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-971 Toner M CRUM not in position Failure

BSD-ON:9.1

M Toner CRUM not in position Failure.

Initial Actions

- Ensure that the Magenta Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-916 (K), 093-970 (Y), and 093-972 (C) are also present on the UI.

Y	N
	Replace the Magenta Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

093-972 Toner C CRUM not in position Failure

BSD-ON:9.1

C Toner CRUM not in position Failure.

Initial Actions

- Ensure that the Cyan Toner Cartridge is seated correctly.
- Ensure that the Toner Cartridge Door is closed.

Procedure

Fault codes 093-916 (K), 093-970 (Y), and 093-971 (M) are also present on the UI.

Y	N
	Replace the Cyan Toner Cartridge (PL 5.2).

Replace the Toner CRUM (Toner Cartridge Door) (PL 5.1).

If the fault codes are still present, replace the MCU PWB (PL 11.1).

094-320 2nd BTR Retract RAP

BSD-ON:9.7

There is a 2nd BTR retract failure.

Procedure

Open the Left Hand Cover. Check that the Contact Arms (PL 6.2) are in the correct position. Verify the 2nd BTR is free to move (PL 2.7). Repair as required (PL 2.7).

094-321 2nd BTR Contact RAP

BSD-ON:9.7

There is a 2nd BTR contact failure.

Procedure

Open the Left Hand Cover. Check that the Contact Arms (PL 6.2) are in the correct position. Verify the 2nd BTR is free to move (PL 2.7). Repair as required (PL 2.7).

094-322 2nd BTR Retract RAP

BSD-ON:9.7

There is a 2nd BTR retract failure.

Procedure

Open the Left Hand Cover. Check that the Contact Arms (PL 6.2) are in the correct position. Verify the 2nd BTR is free to move (PL 2.7). Repair as required (PL 2.7).
Check the circuit of the 2nd BTR (BSD9.7). Repair as required (PL 2.7).

094-323 2nd BTR Contact RAP

BSD-ON:9.7

There is a 2nd BTR contact failure.

Procedure

Open the Left Hand Cover. Check that the Contact Arms (PL 6.2) are in the correct position. Verify the 2nd BTR is free to move (PL 2.7). Repair as required (PL 2.7).
Check the circuit of the 2nd BTR (BSD9.7). Repair as required (PL 2.7).

094-417 IBT Near End of Life RAP

The IBT is near end of life.

Procedure

Verify that the IBT is near end of life (Detailed Maintenance Activities). **The IBT is near end of life.**

Y N

Replace the MCU PWB (PL 11.1).

There is no need for service at this time. Return to Service Call Procedures.

094-418 IBT Cleaner Near End of Life RAP

The IBT Cleaner is near end of life.

Procedure

Verify that the IBT Cleaner is near end of life (Detailed Maintenance Activities). **The Cleaner is near end of life.**

IBT

Y N

Replace the MCU PWB (PL 11.1).

There is no need for service at this time. Return to Service Call Procedures.

094-419 2nd BTR Near End of Life RAP

The 2nd BTR is near end of life.

Procedure

Verify that the 2nd BTR is near end of life (Detailed Maintenance Activities). **The 2nd BTR is near end of life.**

Y N

Replace the MCU PWB (PL 11.1).

There is no need for service at this time. Return to Service Call Procedures.

094-420 IBT End of Life RAP

The IBT reached end of life.

Procedure

Verify that the IBT Belt Assembly is at end of life (Detailed Maintenance Activities). **The IBT Belt Assembly is at end of life.**

Y N

Replace the MCU PWB (PL 11.1).

Replace the IBT Belt Assembly (PL 6.2).

094-421 IBT Cleaner End of Life RAP

The IBT Cleaner reached end of life.

Initial Actions

Replace the IBT Belt Assembly (PL 6.1)

Procedure

Verify that the IBT Cleaner is at end of life (Detailed Maintenance Activities). **The IBT Cleaner is at end of life.**

Y N

Replace the MCU PWB (PL 11.1).

Replace the IBT Cleaner (PL 6.2).

094-422 2nd BTR End of Life RAP

The 2nd BTR reached end of life.

Initial Actions

Replace the IBT Belt Assembly (PL 6.1)

Procedure

Verify that the 2nd BTR is at end of life (Detailed Maintenance Activities). **The 2nd BTR is at end of life.**

Y N

Replace the MCU PWB (PL 11.1).

Replace the 2nd BTR (PL 2.7).

102-356 Controller Software RAP

BSD-ON:16.1

An internal Controller error shut down the processor.

Procedure

Check the installation of the P-Kit/HDD-Kit/RAM boards.

Reload Software (ADJ 9.3.1).

Replace the ESS PWB (PL 11.2).

102-380 UI Control RAP

BSD-ON:16.1

An internal UI controller error shut down the processor.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

Replace the ESS PWB (PL 11.2).

102-381 UI Data Link RAP

BSD-ON:16.1

During transmission between the ESS and the UI an initialization send error or a retrieve error for receiving data was detected by the ESS.

Initial Actions

Power Off/On

Procedure

Check the connection between the ESS and the UI.

Pull out and insert or replace the DIMM (PL 11.2).

Reload Software (ADJ 9.3.1).

Replace the ESS PWB (PL 11.2) If the problem persists, replace the Control Panel UI PWB (PL 13.2).

102-382 Application Layer Command RAP

BSD-ON:16.1

- The required parameters were not sent by the UI.
- A length error was detected in the variable length parameter.
- A confirmation message was not received within the specified time when a request message was sent to the UI.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

Reload Software (ADJ 9.3.1).

Replace the ESS PWB (PL 11.2).

116-220

A description is not available at time of publication.

Procedure

A procedure is not available at time of publication.

116-310 ESS Font DIMM #2 RAP

An error is detected in the ESS Font ROM DIMM #2.

Initial Actions

Power Off/On

Procedure

Pull out and insert the FCB PWB and the DIMM (PL 11.3).

If the problem persists replace the DIMM #2 (PL 11.2).

116-311 ESS Font DIMM #3 RAP

An error is detected in the ESS Font ROM DIMM #3.

Initial Actions

Power Off/On

Procedure

Pull out and insert the FCB PWB and the DIMM (PL 11.3).

If the problem persists replace the DIMM #2 (PL 11.2).

116-312 HDD Encrypt Key RAP

An error in the HDD encryption key is detected during boot.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-313 HDD Encrypt Setup RAP

The encryption key is set up but the HDD is not encrypted.

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-314 Ethernet Address RAP

An Ethernet address error is detected.

Initial Actions

Power Off/On

Procedure

Check the EPROM on the ESS.

If the problem persists, replace the ESS PWB (PL 11.2).

116-315 ESS DDR DIMM #1 R/W Check RAP

An error is detected during the Read/Write operation of the ESS DDR DIMM #1.

Initial Actions

Power Off/On

Procedure

Pull out and insert the ESS DDR DIMM #1.

If the problem persists, replace the ESS DDR DIMM #1 (PL 11.2).

116-316 ESS DDR DIMM #2 R/W Check RAP

An error is detected during the Read/Write operation of the ESS DDR DIMM #2.

Initial Actions

Power Off/On

Procedure

Pull out and insert the ESS DDR DIMM #2.

If the problem persists, replace the ESS DDR DIMM #2 (PL 11.2).

116-317 ESS ROM DIMM #1 Check RAP

An error is detected when the standard ROM DIMM was checked.

Initial Actions

Power Off/On

Procedure

Pull out and insert DIMM (PL 11.2).

If the problem persists replace the DIMM (PL 11.2).

116-318 ESS ROM DIMM #2 Check RAP

An error is detected when the option ROM DIMM was checked.

Initial Actions

Power Off/On

Procedure

Pull out and insert the DIMM (PL 11.2).

If the problem persists, replace DIMM (PL 11.2).

116-319 Controller UI Configuration

There is a configuration mismatch between the Controller ROM and the UI.

Procedure

If the Controller or UI was just serviced, check the electrical connections.

If the problem occurred during customer usage, replace the Controller ROM.

If the problem persists, replace the UI PWB (PL 13.2).

116-321 System Software RAP

An internal controller error shut down the processor.

Initial Actions

Power Off/On

Procedure

Check the installation of the DDR DIMM.

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-322 WebDAV S/W Fail RAP

Due to an error in software processing, subsequent processes cannot be performed.

Procedure

Power Off/On

116-323 ESS NVRAM R/W Check RAP

An error is detected during the ESS PWB NVM Read/Write Check.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-324 System Controller RAP

An exceptional Controller error shut down the processor.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-325 ESS Fan RAP

The ESS fan failed.

Procedure

Replace the ESS fan (PL 11.2).

116-328 Controller Cache RAP

A cache failure is detected in the Controller.

Initial Actions

Power Off/On

Procedure

Replace the ESS PWB (PL 11.2).

116-329 Serial Software RAP

A system call error is detected.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-330 HDD File System RAP

The HDD Check detected an error during power on or the HDD is not formatted.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-331 Invalid Log Information RAP

A log error is detected.

Initial Actions

Power Off/On

Procedure

Remove the HD, switch off the power, reinstall the HD, and switch on the power.

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-332 ESS ROM RAP

An error is detected in the ESS ROM.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-333 LocalTalk Software RAP

A LocalTalk system call error caused a shutdown.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-334 ESS NVRAM Data Compare Fail RAP

System Cont detects [ESS-NVRAM with factory settings is installed] or [Illegal ESS-NVRAM data is occurring].

Initial Actions

Power Off/On

Procedure

As powering OFF then ON after a detection of 116-334 will presumably cause other errors 124-3xx that indicate various data mismatches between the three locations, resolve one(s) following the corrective actions for the relevant Fault Code(s).

If 116-334 reoccurs despite powering OFF/ON, disconnect and reconnect the NV-RAM Board, then turn ON the power.

If the problem persists, replace the NV-RAM Board.

If the problem still persists, replace the mercury battery.

116-335 HDD RAP

The control logic detected that the HDD failed.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-336 HDD Access RAP

A failure is detected during HDD access

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-337 SNTP Software RAP

An error in SNTP (Simple Network Transfer Processing) caused in internal shutdown.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-338 JBA RAP

A JBA (Job Based Accounting) processing error caused in internal shutdown.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-340 Memory RAP

The DDR DIMM, Entry Buffer, and Work Area are insufficient.

Initial Actions

Power Off/On

Procedure

Add memory (PL 11.2).

Disable the PostScript option.

116-341 ROM Version RAP

- Multiple incorrect versions of the ROM DIMM are installed.
- An invalid combination of ROM DIMMs are installed.

Initial Actions

Power Off/On

Procedure

NOTE: *When installing multiple ROM DIMMs, it is necessary to match both the major versions and the minor versions.*

Check the version of the ROM DIMM and if necessary, replace it with the correct version of the DIMM (PL 11.2).

116-342 Network Manager RAP

An internal shutdown occurred due to an error in processing SNMP (Simple Network Management Protocol).

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

116-343 Main PWB IC RAP

An error is detected in the IC in the ESS PWB.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Switch on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2).

116-346 Formatter RAP

Errors are detected by the Formatter.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-348 Redirector RAP

A system function recall error is detected by the Redirector.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists, replace the ESS PWB (PL 11.2).

116-349 SIF RAP

An error occurred using the SIF (Source Input Format) function.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-350 AppleTalk Software RAP

An internal shutdown occurred after an AppleTalk processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-351 Ether Talk Software RAP

An internal shutdown occurred after an Ether Talk processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-352 NetWare Software RAP

An internal shutdown occurred after a NetWare processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-353 HDD Mechanical RAP

A mechanical error occurred in the HDD.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N

| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

| Return to Service Call Procedures.

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-354 HDD Product RAP

An error occurred in the HDD.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-355 Agent Software RAP

An internal shutdown occurred after an SNMP (Simple Network Management Protocol) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-356 HDD Format RAP

HDD formatting failed.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-357 PostScript RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-358 Salutation Software RAP

An internal shutdown occurred after a Salutation processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-359 Software RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-360 SMB Software RAP

An internal shutdown occurred after a SMB (Server Message Block) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-361 Spool HDD RAP

The controller spool detected an error during HDD access.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 9.2).

116-362 SSDP Software RAP

An internal shutdown occurred after an SSDP (Simple Service Discovery Protocol) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-363 Print Service Software RAP

An internal shutdown occurred after an SNMP processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-364 Timer RAP

A timer failure is detected in the ESS PWB.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2).

116-365 Spool RAP

An internal shutdown occurred after an SPL processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-366 Software Report RAP

An internal shutdown occurred after a reporting error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-367 Parallel Software RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-368 Dump Print RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-370 XJCL RAP

An internal shutdown occurred after a XJCL (X Job Control Language) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-371 PCL Decomposer Software RAP

An internal shutdown occurred after a PCL (Printer Command Language) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-372 Formatter RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-373 Dynamic DNS Software RAP

An internal shutdown occurred after a DDNS (Dynamic Domain Name System) processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-374 Auto Switch RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-375 Formatter RAP

A response such as system function recall error is detected.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-376 Port 9100 Software RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Pull out and insert or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-377 Video DMA RAP

A Video DMA (Direct Memory Access) failure is detected.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-378 Controller Software RAP

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-379 Controller Software RAP

An internal shutdown occurred after an MCC processing error.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-380 ESS Font ROM DIMM #1 RAP

An error is detected when the Font ROM DIMM #1 was checked.

Initial Actions

Power Off/On

Procedure

Pull out and insert the Printer PWB (PL 11.2) and the PS DIMM (PL 11.2) Switch on the power.

The problem persists.

Y N

| Return to Service Call Procedures.

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N

| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists, replace the Printer PWB (PL 11.2)

If the problem persists, replace the PS DIMM (PL 11.2).

116-381 ABL Initialize RAP

Corrupted data is detected in the ABL (Address Book Library).

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are correctly connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Clear the ESS NVM. (Perform this only after explaining to the user the purpose of clearing recipient information.)

If the problem persists replace the ESS PWB (PL 11.2).

116-382 ABL Initialize RAP

HDD access by the ABL (Address Book Library) failed.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Switch on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-383 PIT Lib Failure RAP

(1) It was detected that the Image Extension Kit (Ama + toto board) was not installed on the controller board during job execution.

(2) An Ama + toto board failure was detected during job execution.

(3) An HDD access error was detected during job execution.

* Note that although 016-231 is detected during power ON, this fail is a "job execution detection" and has a different timing.

Procedure

(1) (2) After turning the power OFF then ON, check the panel top right display to see whether 016-231 has occurred, without this error (= 116-383) occurring.

If 016-231 has occurred, perform the corrective actions for 016-231.

If the error does not occur, proceed to (3) for the HDD access error.

116-385 IDC Software RAP

An internal shutdown occurred after an IDC (scripting language) processing error.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-388 MCC RAP

The control logic detected that the HDD is not installed during an MCC operation (Mail Contents Creator).

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-389 RAM Install RAP

The control logic detected that the required RAM capacity is not installed or available.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the DIMM (PL 11.2).

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-390 ROM NVM Mismatch RAP

Incompatible versions of the standard ROM and NVM are detected.

Procedure

If instructions are listed on the UI perform them.

If no instructions are listed on the UI Follow the LCD display and initialize the NVM.

116-391 Country Code RAP

An illegal country code is set.

Procedure

Perform GP 7 Country Code Setting.

116-395 USB Software RAP

There is an internal shutdown due to a USB (Universal Serial Bus) related error.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-399 Initialization RAP

Initialization exceeded 10 minutes.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists, replace the ESS PWB (PL 11.2).

116-701 Memory Duplex RAP

2 Sided printing requires more memory.

Initial Actions

Power Off/On

Procedure

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-702 Substitute Font RAP

The print function is using a substitute font.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-703 PostScript Language RAP

There is an error in PostScript grammar interpretation or language interpretation.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-710 HP-GL/2 Memory Overflow RAP

There is a memory overflow in the HP-GL/2 (Hewlett Packard printer control language)

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 11.2).

Ask customer to cancel and rerun the job.

116-711 Size/Orientation Mismatch RAP

In overlay mode the PLW form is different from the size/orientation of the paper.

Procedure

Ask customer to check setups so that the paper is the same size and orientation as the overlay.

116-712 Form Registration RAP

Form/logo data registration is not possible due to insufficient RAM disk or HDD capacity.

Initial Actions

Power Off/On

Procedure

Ask customer to delete unused or unnecessary forms.

Perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-713 HDD Job Full RAP

The job output was split into batches when HDD capacity was reached.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

Perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-714 HP-GL/2 Command RAP

There is a command error in the HP-GL/2 (Hewlett Packard printer control language)

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists check the electrical connections on the HDD (PL 11.2).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-715 Max Form to PLW Registered RAP

PLW form data registration was not possible because of the restriction on the number of forms.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms using the UI utility and delete the forms that are unnecessary.

If the problem persists delete forms that are not required by the print command.

116-718 Selected PLW Form Not Registered RAP

The specified form is not registered.

Initial Actions

Power Off/On

Procedure

Use a registered form or register the required form.

116-720 PCL Memory RAP

The PCL Printer Control Language) Memory capacity is insufficient.

Initial Actions

Power Off/On

Procedure

Do not start up the ports that are unnecessary. Adjust the various Buffer Memory sizes. Add additional memory.

116-725 The log image storage area full RAP

With the system data "Level of Ensuring Log Image Creation" set to "Low," the log image storage area on the disk is full.

Procedure

Rerun the job.

If the situation is the same despite some re-attempts, delete unnecessary documents saved in the device.

116-737 Registration RAP

Registration of user defined data (external characters, patterns, etc.) lacks RAM capacity.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide heading Data Encryption. Deleting registered user defined data will make additional memory available.

116-738 Overlay Size Orientation RAP

The drawing size/orientation of the form is different from the size/orientation of the paper.

Procedure

Ask customer to check setups so that the paper is the same size and orientation as the overlay.

116-739 Form/Logo Capacity RAP

Form/logo registration was not possible because of insufficient RAM disk or HDD capacity.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms/logos using the Operation Panel utility, delete the forms/logos that are unnecessary.

Refer customer to User Guide heading Data Encryption to check RAM usage.

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the HDD (PL 11.2).

116-740 Arithmetic RAP

The number calculated in the interpreter exceeded the limit value.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-741 Maximum Forms Data Register RAP

The large quantity of forms put a limit on form data registration.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms using the UI utility and delete the forms that are unnecessary.

If the problem persists Ask customer to delete forms that are not required by the print command.

116-742 Max Logo Registered RAP

The number of logo data registrations is exceeded.

Procedure

Ask customer to check the registered logos using the UI utility and delete any unused logos.

If the problem persists delete logos that are not required by the print job.

116-743 Form/Logo Size Overflow RAP

The received data (form/logo) exceeds the registered buffer size.

Initial Actions

Power Off/On

Procedure

Ask customer to increase the size of the Form Registration Area using the UI.

If the problem persists install the HDD (PL 11.2).

116-745 ART Command RAP

The decompressor detected grammar or other errors when comparing check values.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-746 Selected Form RAP

The selected form is not registered.

Procedure

Ask customer to use a registered form or register the required form.

116-747 Invalid Page Margin RAP

Subtracting the paper margin from the valid coordinate area results in a negative value.

Procedure

Ask customer to reset the margins setup.

116-748 Page Image Data RAP

Drawing data does not exist in the page data.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-749 PostScript Font RAP

The specified font is not found in the ROM or the HDD.

Initial Actions

Power Off/On

Procedure

The font name specified in JIS is set.

116-752 Print Job Ticket Description Warning RAP

PDF Print Job Ticket description warning.

Procedure

Ask customer to cancel and rerun the job.

116-771 Invalid JBIG Parameter DL Fixed RAP

An incorrect JBIG parameter DL was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-772 Invalid JBIG Parameter D Fixed RAP

An incorrect JBIG parameter D was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-773 Invalid JBIG Parameter P Fixed RAP

An incorrect JBIG parameter P was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-774 Invalid JBIG Parameter YD Fixed RAP

An incorrect JBIG parameter YD was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-775 Invalid JBIG Parameter L0 Fixed RAP

An incorrect JBIG parameter LO was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-776 Invalid JBIG Parameter MX Fixed RAP

An incorrect JBIG parameter MX was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-777 Invalid JBIG Parameter MY Fixed RAP

An incorrect JBIG parameter MY was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-778 Invalid JBIG Par VLength Fixed RAP

An incorrect JBIG parameter VLENGTH was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-780 Attached Document RAP

There was an error in the document attached to the E-mail to XXX.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-790 Stapling Canceled RAP

BSD-ON:12.6

When Staple was specified, there were no staples.

Initial Actions

Power Off/On

Procedure

Execute Component Control [012-242 Low Staple Sensor]. Install and remove the Staple Pin Cartridge. **The display changes.**

Y N
|
Check the Staple Pin Cartridge for failure or foreign substances. **There are no foreign substances and nothing has failed.**

Y N
|
Repair the failure and remove the foreign substances.

Check the connections of P/J8818 and P/J8852. **P/J8818 and P/J8852 are connected correctly.**

Y N
|
Connect P/J8818 and P/J8852.

Check the wire between J8818 and J8852 for an open circuit or a short circuit (BSD 12.6). **The wire between J8818 and J8852 is conducting without an open circuit or a short circuit.**

Y N
|
Repair the open circuit or short circuit.

Measure the voltage between the Finisher PWB P/J8852-1 (+) and GND (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Measure the voltage between the Finisher PWB P/J8852-4 (+) and GND (-) (BSD 12.6 Flag 3). Install and remove the Staple Pin Cartridge. **The voltage changes.**

Y N
|
Replace the Finisher PWB (PL 17.12).

Replace the Staple Assembly (PL 17.8) If the problem persists, replace the Finisher PWB (PL 17.12).

Replace the Finisher PWB (PL 17.12) If the problem persists, replace the MCU PWB (PL 11.1).

121-310 EPSV-Accessory Communication HDD RAP

Transmission between the EP-SV and the accessories failed.

Initial Actions

Power Off/On

Procedure

Check the electrical connectors on the HDD (PL 11.2)

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the EP-SV.

If the problem persists install or replace the EPSV-IF board (PL 11.2).

If the problem persists replace the EP accessory.

121-333 EPSV-EP M/C Communication HDD RAP

Transmission between the EP-SV and the machine failed.

Initial Actions

Power Off/On

Procedure

Check the electrical connectors on the HDD (PL 11.2)

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists reinstall or replace the EPSV-IF board (PL 11.2).

If the problem persists replace the EP accessory.

If the problem persists replace the EP-SV.

121-334 EPSV Login HDD RAP

Verification of the login information in WAKE UP ANSWER resulted in an error.

Initial Actions

Power Off/On

Procedure

Check the electrical connectors on the HDD (PL 11.2)

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists reload Firmware (ADJ 9.3.1).

If the problem persists reinstall or replace the EPSV-IF board (PL 11.2).

If the problem persists pull out and insert or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

If the problem persists replace the EP-SV.

121-335 EPSV Wake Up Answer HDD RAP

The WAKE UP ANSWER cannot be received.

Initial Actions

Power Off/On

Procedure

Check the electrical connectors on the HDD (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists pull out and insert or replace the DDR DIMM (PL 11.2).

If the problem persists reinstall or replace the EPSV-IF board (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

If the problem persists replace the EP-SV.

121-336 Unknown EP Accessory RAP

The EP related accessory type was unknown in WAKE UP ANSWER.

Initial Actions

Power Off/On

Procedure

Replace the EP accessory.

121-337 EP Accessory Self Diagnostic HDD RAP

Self-diagnostic of the EP related accessories in WAKE UP ANSWER resulted in an error.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 11.2)
If the problem persists reload Software (ADJ 9.3.1).
If the problem persists perform Hard Disk Diagnostic Program.
If the problem persists replace the EP accessory.

121-338 EPSV Answer Time Out RAP

Answers other than wake up answer from the EP-SV cannot be received.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

121-339 Changed Price Table RAP

With the machine turned on, unit price information was changed.

Initial Actions

Power Off/On

Procedure

Ask customer to verify the pricing information.

121-340 EP Accessory Mismatch RAP

The combination of accessories that are installed does not match the specifications.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists reinstall or replace the EPSV-IF board (PL 11.2).

If the problem persists pull out and insert or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

121-350 EPSV Logic HDD RAP

A fatal error was detected.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists reinstall or replace the EPSV-IF board (PL 11.2).

If the problem persists pull out and insert or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

121-370 EP-DX RAP

An error was detected.

Initial Actions

Power Off/On

Procedure

Replace the ESS PWB (PL 11.2)

123-203 UI Controller RAP

The send request queue is full.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-207 Communication Manager Target RAP

A mailbox operations value is incorrect.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-209 Controller UI Communication RAP

An incorrect check value is received during Controller UI Communications.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-310 Send Queue RAP

The upper limit of the processing capability for sending data from the UI to the Controller was exceeded.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-311 Receive Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-317 Receive Message Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-318 Receive Finish Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-322 UI Target RAP

Serial transmission failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-323 UI Address RAP

Serial transmission failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-325 Object Creation RAP

The specified object could not be created due to UI software failure and a setting or specification error.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-326 Memory Overflow RAP

The UI software failed and memory capacity is exceeded.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-327 Button Overflow RAP

The UI software failed and memory requirements exceeded the upper limit.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-328 UI Internal Range RAP

UI software failure and a coordinate value outside the range of the display screen is detected.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-329 UI Coordinates RAP

UI software failure and a coordinate value that cannot be displayed is detected.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2)

123-332 Interface Parameter RAP

The UI software failed and an incorrect parameter was received by the DM-CP driver interface.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-333 Interface Communication RAP

The system detected that transmission with the Control Panel could not be established.

The H/W connection in the UI is faulty and the internal connection isn't detected.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-337 Frame Data RAP

The UI software failed and an incorrect data type value is detected.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-341 Event Queue RAP

The UI software failed with a full event queue.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-342 Event Queue RAP

The UI software failed with an empty queue.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-343 Invalid Class RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-344 Invalid Type RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-345 Timer Queue Full RAP

The UI software failed an event timer.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-346 Invalid Timer Number RAP

The UI software failed a timer routine.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-350 Privilege Command RAP

The UI software failed a privilege command.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-362 Object RAP

The UI software failed with no object definition.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-368 UI Memory RAP

There is insufficient memory or the connection failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-369 Interface Value RAP

The UI software failed with an invalid interface value.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-370 Interface Length RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-371 Interface Parameter RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the ESS PWB (PL 11.2).

123-372 Interface Sequence RAP

The initialization command from the Controller was not sent within the specified time.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the ESS PWB (PL 11.2).

123-373 Channel RAP

There is an error in the channel sent from the Controller.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the ESS PWB (PL 11.2).

123-374 User Job ID RAP

There is an error in the Job ID parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the ESS PWB (PL 11.2).

123-375 Internal Resource RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-376 Internal Memory RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-377 UI Timer RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-378 Interface Format RAP

There is an error in the data format sent from the Controller.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the ESS PWB (PL 11.2).

123-379 Dispatch RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-380 Copy Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-381 Fax Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-382 Scanner Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-383 Report Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-384 Server Access RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-385 Service Object RAP

There is an invalid service object overflow failure.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-386 Service Object RAP

There is an invalid service object attribute failure.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-387 Service Object RAP

There is an invalid service object attribute failure.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-388 Attribute RAP

The UI software failed attribute control.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-389 UI Comparator RAP

The UI software failed comparator management.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-390 Job Parameter RAP

The UI software failed job parameter control.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-391 Job Parameter RAP

The UI software failed job parameter control.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-392 Auditron RAP

The UI software failed auditron control.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-393 UI Compiling RAP

The UI software failed a compiler function.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-394 File Access RAP

The UI software failed a file access routine.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-395 UI NVM RAP

The UI software failed an NVM access routine.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-396 UI Software RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-397 UI Manager RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-398 Release Queue RAP

The UI software failed a full queue release.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-399 UI Internal RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

123-400 Internal Interface RAP

There is insufficient memory capacity or an internal error or invalid interface sequencing or a corrupt parameter was entered.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the electrical connections on the UI PWB (PL 13.2) and P/J388 on the ESS PWB (PL 11.2)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the UI PWB (PL 13.2).

If the problem persists replace the ESS PWB (PL 11.2).

124-310 Product Designation RAP

BSD-ON:3.6

There is an error in the product designation nomenclature.

Procedure

Perform GP 4 Replacing Billing PWBs.

124-311 Product Serial Number RAP

BSD-ON:3.6

There is an error in the product serial number.

Procedure

Perform GP 4 Replacing Billing PWBs.

124-312 Machine Codes Mismatch RAP

BSD-ON:3.6

The machine codes do not match.

Procedure

Perform GP 4 Replacing Billing PWBs.

124-313 Serial Number RAP

BSD-ON:3.6

The serial numbers did not match.

Procedure

Perform GP 4 Replacing Billing PWBs.

124-314 IOT Speed RAP

The IOT is not running at the correct speed.

Procedure

Check the following for binding:

- Fuser/ Main Drive Controls: BSD 4.1, 4.1B
- Registration: BSD 8.7
- Xerographics: BSD 9.3, 9.7, 9.8
- Fusing and Transportation: BSD 10.1, 10.5, 10.6

124-315 Serial Number Mismatch RAP

The Serial Numbers are not in sync.

Initial Actions

Power Off/On

Procedure

Go to GP 4.

124-316 Product Mode RAP

BSD-ON:3.6

There is an error in product mode of operation.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the MCU PWB (PL 11.1)

If the problem persists replace the ESS PWB (PL 11.2).

124-317 All Product Mode RAP

BSD-ON:3.6

There is an error in all modes of product operation.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the MCU PWB (PL 11.1)

If the problem persists replace the ESS PWB (PL 11.2).

124-318 Product Type Software Key RAP

BSD-ON:3.6

There is a mismatch between the software key and the type of product.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the MCU PWB (PL 11.1)

If the problem persists replace the ESS PWB (PL 11.2).

124-319 All Product Types Software Key RAP

BSD-ON:3.6

There is a mismatch between the software key and any type of product.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the MCU PWB (PL 11.1)

If the problem persists replace the ESS PWB (PL 11.2).

124-320 EPROM RAP

BSD-ON:16.1

A write error occurred in the ESS PWB SEEPROM.

Procedure

Replace the ESS PWB (PL 11.2).

124-321 Backup SRAM RAP

BSD-ON:3.6

A failure occurred when setting the M/C serial number.

Procedure

Check the connection of each ESS PWB (PL 11.2) and FCB PWB (PL 11.3) connector. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the ESS PWB (PL 11.2)

If the problem persists replace the FCB PWB (PL 11.3).

124-322 Software Key RAP

BSD-ON:16.1

There is a software key mismatch.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the ESS PWB (PL 11.2).

124-323 Software Key Registration RAP

BSD-ON:16.1

There is a software key registration failure.

Procedure

Perform GP 4 Replacing Billing PWBs.

If the problem persists replace the ESS PWB (PL 11.2).

124-324 All Billings Mismatch RAP

BSD-ON:16.1

The billing counters in multiple locations are all different.

Procedure

Power OFF/ON. If the problem persists, perform the following:

Replace the MCU PWB (PL 11.1).

If the problem persists replace the ESS PWB (PL 11.2).

124-325 Billing Restoration RAP

BSD-ON:3.6

Billing counter auto repair failed.

Procedure

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Compare the 3 serial numbers **The 3 serial numbers match.**

Y N

Perform GP 4 Replacing Billing PWBs.

Replace the MCU PWB (PL 11.1)

If the problem persists replace the ESS PWB (PL 11.2).

124-333 ASIC RAP

BSD-ON:16.1

A decompression error occurred in an ESS ASIC (Application Specific Integrated Circuit).

Initial Actions

Power Off/On

Procedure

Pull out and insert the DIMM (PL 11.1) Switch on the power. **The problem persists.**

Y N
| Return to Service Call Procedures.

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists replace the DDR DIMM (PL 11.2).

124-334 Standard Font ROM RAP

BSD-ON:16.1

An error was detected in the standard Built-In Font ROM.

Procedure

Replace the PS DIMM (PL 11.2)

124-335 Font ROM RAP

BSD-ON:16.1

The Font ROM could not be detected.

Initial Actions

Power Off/On

Procedure

Pull out and insert the Printer PWB (PL 11.1) and the DIMM (PL 11.2) Switch on the power.

The problem persists.

Y N
| Return to Service Call Procedures.

Check the connection of each ESS PWB connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the PS DIMM (PL 11.2).

If the problem persists replace the Printer PWB (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2)

124-337 ESS Standard RAM RAP

BSD-ON:16.1

An error was detected in the ESS Built-In Standard RAM.

Procedure

Reinstall or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

124-338 Duplicate Font ROMs RAP

BSD-ON:16.1

The system detected that a duplicate Font ROM is installed.

Procedure

Pull out and insert or replace the PS DIMM (PL 11.2).

124-339 ROM DIMM Mismatch RAP

BSD-ON:16.1

The system detected that an incorrect ROM DIMM is installed.

Procedure

Check that the prescribed DDR DIMM (PL 11.2) is installed.

124-340 CRUM Market RAP

BSD-ON:16.1

There is a general CRUM control failure.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists replace the MCU PWB (PL 11.1).

124-341 CRUM Market MCU RAP

CRUM control failed on the MCU.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS1.

If the problem persists, replace the MCU PWB (PL 11.1).

124-342 CRUM Market System 1 RAP

CRUM control failed in system 1.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master MCU.
If the problem persists, replace the ESS PWB (PL 11.2).

124-343 CRUM Market System 2 RAP

CRUM control failed in system 2.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS2.
If the problem persists, replace the ESS PWB (PL 11.2).

124-350 CRUM OEM RAP

OEM (Original Equipment Manufacturer) CRUM control failed.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists replace the MCU PWB (PL 11.1).

124-351 CRUM OEM MCU RAP

OEM (Original Equipment Manufacturer) CRUM control failed on the MCU.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS1.

If the problem persists, replace the MCU PWB (PL 11.1).

124-352 CRUM OEM System 1 RAP

OEM (Original Equipment Manufacturer) CRUM control failed in system 1.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master MCU.
If the problem persists, replace the ESS PWB (PL 11.2).

124-353 CRUM OEM System 2 RAP

OEM (Original Equipment Manufacturer) CRUM control failed in system 2.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS2.
If the problem persists, replace the ESS PWB (PL 11.2).

124-360 CRUM Validation RAP

CRUM control failed validation.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists replace the MCU PWB (PL 11.1).

124-361 CRUM Validation MCU RAP

CRUM control failed validation on the MCU.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS1.

If the problem persists, replace the MCU PWB (PL 11.1).

124-362 CRUM Validation System 1 RAP

CRUM control failed in system 1.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4, repair the problem by master MCU.
If the problem persists. replace the ESS PWB (PL 11.2).

124-363 CRUM validation System 2 RAP

CRUM control failed in system 2.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS2.
If the problem persists, replace the ESS PWB (PL 11.2).

124-372 IOT Controller Software RAP

Due to an error in the software of the IOT Controller, subsequent processes cannot be performed.

Procedure

Reload Software (ADJ 9.3.1).

Reinstall or replace the DDR DIMM (PL 11.2).

Replace the ESS PWB (PL 11.2).

124-373 IOT Manager Software RAP

BSD-ON:16.1

Due to an error in the software of the IOT Manager, subsequent processes cannot be performed.

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists reinstall or replace the DDR DIMM (PL 11.2).

If the problem persists reinstall or replace the ESS PWB (PL 11.2).

124-374 IOT IM Device Driver Software RAP

BSD-ON:16.1

Due to an error in the software of the IOT IM Device Driver, subsequent processes cannot be performed.

Procedure

Reload Software (ADJ 9.3.1).

If the problem persists reinstall or replace the DDR DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

124-380 CRUM Market (2)

There is a general CRUM control failure.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N

| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)

If the problem persists replace the MCU PWB (PL 11.1).

124-381 CRUM Market MCU (2)

CRUM control failed on the MCU.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS1.
If the problem persists, replace the MCU PWB (PL 11.1).

124-382 CRUM Market System 1 (2)

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
|
Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
|
Return to Service Call Procedures.

Perform GP 4, repair the problem by master MCU.
If the problem persists. replace the ESS PWB (PL 11.2).

124-383 CRUM Market System 2 (2)

CRUM control failed in system 2.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS2.
If the problem persists, replace the ESS PWB (PL 11.2).

124-390 OEM Market (2)

OEM (Original Equipment Manufacturer) CRUM control failed.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the ESS PWB (PL 11.2)
If the problem persists replace the MCU PWB (PL 11.1).

124-391 CRU OEM MCU (2)

OEM (Original Equipment Manufacturer) CRUM control failed on the MCU.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS1.
If the problem persists, replace the MCU PWB (PL 11.1).

124-392 CRU OEM System 1 (2)

OEM (Original Equipment Manufacturer) CRUM control failed in system 1.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master MCU.
If the problem persists, replace the ESS PWB (PL 11.2).

124-393 CRU OEM System 2 (2)

OEM (Original Equipment Manufacturer) CRUM control failed in system 2.

Procedure

Check the electrical connections on the ESS PWB and MCU PWB. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Return to Service Call Procedures.

Perform GP 4, repair the problem by master SYS2.
If the problem persists, replace the ESS PWB (PL 11.2).

124-701 Side Tray to Center Tray RAP

The output destination was changed by the customer from the Side Tray to the Center Tray.

Procedure

No action necessary.

124-702 Finisher Tray to Center Tray RAP

The output destination was changed by the customer from the Finisher Tray to the Center Tray.

Procedure

No action necessary.

124-709 Side Tray to Center Tray RAP

The sheets entering the stapler exceeded the maximum.

Procedure

Ask customer to check the job setup.

125-311 PSW Unexpected Fail RAP

PSW Cont Software Failure

Due to an error in software processing, subsequent processes cannot be performed.

Procedure

Power OFF/ON.

Check that the latest version of software is installed.

Check connections on the ESS PWB.

Check the wiring to the ESS PWB.

If the above checks are OK, replace the ESS PWB (PL 11.2).

127-310 ESR Task RAP

BSD-ON:16.1

A fatal error occurred in an ESR (External Server Request) Task.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

127-337 Job Template HDD Write RAP

BSD-ON:16.1

There was a file access failure during internal polling or an error occurred when writing to the HDD Job Template sector.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists perform Hard Disk Diagnostic Program.

If the problem persists replace the DIMM (PL 11.2).

If the problem persists replace the HDD (PL 11.2).

If the problem persists replace the Printer PWB (PL 11.2).

127-342 Job Template Monitor RAP

BSD-ON:16.1

A system function recall error is detected.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the Printer PWB (PL 11.2).

127-353 LPD Software RAP

BSD-ON:16.1

Due to a fatal error that occurred in processing related to the LPD, subsequent processes cannot be performed.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

127-354 FTP Server Software RAP

BSD-ON:

There is a FTP Server software failure.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

127-396 Mail I/O Software RAP

BSD-ON:16.1

There is an error in Mail I/O processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

127-398 IPP Software RAP

BSD-ON:16.1

There is an IPP (Internet Printing Protocol) error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

127-399 JME Software RAP

BSD-ON:16.1

Due to a fatal error that occurred in processing related to the JME, subsequent processes cannot be performed.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists pull out and insert or replace the DIMM (PL 11.2).

If the problem persists replace the ESS PWB (PL 11.2).

133-210 Fax Parameter RAP

BSD-ON:17.1

The parameter value is incorrect due to reasons such as excessive length.

The required parameter is not sent.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists replace the FCB PWB (PL 11.3).

133-211 Fax Parameter Value Invalid RAP

BSD-ON:17.1

A parameter value exceeds the range or the required parameter is not sent.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists replace the FCB PWB (PL 11.3).

133-212 Fax Read Error- No Data RAP

BSD-ON:17.1

The specified data does not exist (incorrect number or channel).

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists replace the FCB PWB (PL 11.3).

133-213 Fax Read Error- Invalid Data RAP

BSD-ON:17.1

Corrupted data interrupted a read on the specified data.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists replace the FCB PWB (PL 11.3).

133-214 Fax USB Initializing RAP

BSD-ON:17.1

Fax failed initialization.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 11.3).

If the problem persists replace the FCB PWB (PL 11.3).

133-215 Fax USB Device RAP

BSD-ON:17.1

There is an error in the Fax USB interface.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 11.3).

If the problem persists replace the FCB PWB (PL 11.3).

133-216 Fax USB Host Fatal RAP

BSD-ON:17.1

There is a Fax/USB processing error.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 11.3).

If the problem persists replace the FCB PWB (PL 11.3).

133-217 Fax Manager Short of Memory RAP

There is a Fax/USB processing error.

Procedure

Turn the power Off/On.

133-218 Fax Card Message Library Short of Memory RAP

There is a Fax/USB processing error.

Procedure

Turn the power Off/On.

133-219 Fax Work Memory RAP

Memory capacity reached during Fax processing.

Procedure

Turn the power Off/On.

133-220 Fax Control Task RAP

BSD-ON:17.1

An error during Fax Controller software processing caused a Fax shutdown.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

133-221 Fax Card Boot RAP

BSD-ON:17.1

The FCB PWB did not respond within the specified time to boot.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

133-222 Fax Card does not respond intervalley RAP

BSD-ON:17.1

The FCB PWB did not respond within the specified time.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

133-223 Fax Card Reset RAP

BSD-ON:17.1

The controller reset when the FCB PWB did not respond.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

133-224 Controller ROM Fax Card ROM RAP

BSD-ON:17.1

The Controller detected a version mismatch.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

133-226 Country Code RAP

The Controller detects an invalid country code.

Procedure

Perform GP 7 Country Code Setting.

133-280 Fax Option Slot 1 Board RAP

BSD-ON:17.1

Failure was detected on the Fax Option Slot 1 board.

Procedure

Pull out and insert the FCB PWB (PL 11.3) Switch on the power. **The problem persists.**

Y N
| Service Call Procedures.

Check the connection of each FCB PWB (PL 11.3) connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Service Call Procedures.

Replace the FCB PWB (PL 11.3).

133-281 Received unknown message RAP

BSD-ON:17.1

A message not specified in I/F settings was received from the Fax Card.

Procedure

Pull out and insert the FCB PWB (PL 11.3) Switch on the power. **The problem persists.**

Y N
| Service Call Procedures.

Check the connection of each FCB PWB (PL 11.3) connector. **The connectors are securely connected.**

Y N
| Connect the connectors.

Turn on the power again. **The problem persists.**

Y N
| Service Call Procedures.

Replace the FCB PWB (PL 11.3).

133-282 Fax Card Download RAP

BSD-ON:17.1

An FCB PWB download could not be completed when either a FCB PWB or Fax Controller software failure occurred.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

If the problem continues, replace the FCB PWB (PL 11.3).

133-283 Fax Report Mailbox RAP

BSD-ON:17.1

The Fax Report mailbox did not open.

Procedure

Check the electrical connections on the FCB PWB (PL 11.3)

If the problem persists reload Software (ADJ 9.3.1).

If the problem persists replace the FCB PWB (PL 11.3).

134-210 Fax Controller Parameter RAP

BSD-ON:17.1

The parameter value is incorrect or the required parameter is not sent.

Initial Actions

Power Off/On

Procedure

Pull out and insert the FCB PWB (PL 11.3). **The problem persists.**

Y N
| Return to Service Call Procedures.

Check the electrical connections on the FCB PWB (PL 11.3). **The connectors are securely connected.**

Y N
| Connect the connectors.

Switch on the power. **The problem persists.**

Y N
| Return to Service Call Procedures.

Replace the FCB PWB (PL 11.3).

134-211 FCB PWB RAP

BSD-ON:17.1

A failure is detected on the FCB PWB.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FCB PWB (PL 11.3).

If the problem persists replace the FCB PWB (PL 11.3).

202-399 Internal Timer RAP

An internal error was detected in the machine timer.

Initial Actions

Power Off/On

Procedure

Reload Software (ADJ 9.3.1).

OF 1 Paper Size Mismatch In Width RAP

The width of the paper size is incorrect.

Initial Actions

- Power OFF/ON
- Reload the tray.

Procedure

Check for foreign substances, distortion and paper powder in the paper transport path. **No distortion, foreign substances, or paper powder are found in the paper transport path.**

Y N
| Clear away the foreign substances and paper powder. Correct the distortion.

Feed paper from another tray. **The problem occurs when paper is fed from another tray.**

Y N
| Check the guide. **The guide is set correctly.**

Y N
| Set the guide correctly.

Check the operation of the Guide Actuator. **The Guide Actuator works.**

Y N
| Set the guide correctly.

Check the installation of the relevant Paper Size Switch. **The relevant Paper Size Switch is installed correctly.**

Y N
| Install the relevant Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Replace the MCU PWB (PL 11.1).

OF 2 Size Switch Assy RAP

Procedure

Manually activate the switches of the relevant Size Sensor. **The relevant switches move smoothly.**

Y N

Replace the relevant Size Sensor.

Execute the following Diag.: Activate the relevant Size Sensor.

Tray 1: Component Control [071-103 Tray 1 Size Switch]

Tray 2: Component Control [072-104 Tray 2 Size Switch]

Tray 3: Component Control [073-104 Tray 3 Size Switch]

The display changes.

Y N

Check the connections of the following connectors:

Tray 1: P/J127

Tray 2: P/J820

Tray 3: P/J824

The connectors are connected correctly.

Y N

Connect the connectors.

Check the following harnesses for an open circuit or a short circuit.

Tray 1: P/J127, P/J401

Tray 2: P/J820, P/J548

Tray 3: P/J824, P/J548

The relevant harnesses are conducting without an open circuit or a short circuit.

Y N

Repair the open circuit or short circuit.

Measure the voltage between the following points (+) and GND (-).

Tray 1: MCU PWB P401-6

Tray 2: TM PWB P548-13

Tray 3: TM PWB P548-8

The voltage is the specified value (MCU PWB: approx. +5VDC).

Y N

Replace the relevant PWB (MCU PWB (PL 11.1) or Tray Module PWB (PL 14.7)).

Measure the voltage between the following points (+) and GND (-).

Tray 1: MCU PWB P412-1

Tray 2: MCU PWB P412-6

Tray 3: TM PWB P548-11

Activate SW5 of the relevant Size Sensor. **The voltage changes.**

Y N

Replace the relevant PWB (MCU PWB (PL 11.1) or the Tray Module PWB (PL 14.7)).

Replace the relevant Size Sensor.

Check the connections of the following connectors:

Tray 1: P/J127, P/J401

Tray 2: P/J820, P/J548

Tray 3: P/J824, P/J548

The connectors are connected correctly.

Y N

Connect the connectors.

Check the following harnesses for an open circuit or a short circuit.

Tray 1: Between J109 and J412

Tray 2: Between J110 and J412

Tray 3: Between J820 and J548

The relevant harnesses are conducting without an open circuit or a short circuit.

Y N

Repair the open circuit or short circuit.

Measure the voltage between the following points (+) and GND (-).

Tray 1: MCU PWB P412-4

Tray 2: MCU PWB P412-9

Tray 3: TM PWB P548-14

The voltage is the specified value (MCU PWB: approx. +5VDC).

Y N

Replace the relevant PWB (MCU PWB (PL 11.1) or Tray Module PWB (PL 14.7)).

Measure the voltage between the following points (+) and GND (-).

Tray 1: MCU PWB P412-3

Tray 2: MCU PWB P412-8

Tray 3: TM PWB P548-13

Activate SW1 to SW4 of the relevant Size Sensor in sequence. **The voltage changes.**

Y N

Replace the relevant Size Sensor.

Replace the relevant PWB (MCU PWB (PL 11.1) or Tray Module PWB (PL 14.7)).

OF 3 Main Drive Assy RAP

Procedure

Execute Component Control [042-001 Main Motor ON]. **The Main Motor can be heard.**

Y N
Check the connections of P/J410 and P/J214. **P/J410 and P/J214 are connected correctly.**

Y N
Connect P/J410 and P/J214.

Check the wire between J410 and J214 for an open circuit or a short circuit (BSD 4.1B) **The wire between J410 and J214 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between P/J214-1 and P/J214-2 on the Main Motor. **The voltage is approx. +24VDC.**

Y N
Measure the voltage between the Relay PWB P/J451-5 (+) and P/J451-6 (-) (BSD 4.1B). **The voltage is approx. +24VDC.**

Y N
Measure the voltage between the P/J450-4 (+) and P/J450-2 (-) on the Relay PWB, (BSD 1.2B). **The voltage is approx. +24VDC.**

Y N
Go to 7.3.27 Wire Net +24VDC-6. Troubleshoot the circuit between P/J510-3 and P/J450-4 for +24VDC.

Replace the Relay PWB (PL 11.1).

Check the wiring connectors between P/J451 pins 5 and 6 and P/J214 pins 1 and 2 for an open or short circuit. **The wiring and connectors are OK.**

Y N
Repair or replace as required.

Replace the Main Motor (PL 1.1).

Measure the voltage between the MCU PWB P/J410-A5 (+) and GND (-) (BSD 4.1B). **The voltage is approx. +5VDC.**

Y N
Go to BSDs 1.2A and 1.2B and check the +5VDC distribution. **+5VDC distribution is OK.**

Y N
Repair or replace as required.

Replace the MCU PWB (PL 11.1).

Replace the Main Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

Check the following wires for an intermittent circuit:

- Between J410-A1 and J214-10 (BSD 4.1B)

- Between J410-A2 and J214-9 (BSD 4.1B)
- Between J410-A3 and J214-8 (BSD 4.1B)
- Between J410-A4 and J214-5 (BSD 4.1B)

Y N
Repair the open circuit or short circuit.

Replace the Main Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

OF 4 Fuser Drive Assy RAP

Procedure

Execute Component Control [010-001 Fuser Motor ON]. **The Fuser Motor can be heard.**

Y N
Check the connections of P/J412 and P/J226. **P/J412 and P/J226 are connected correctly.**

Y N
Connect P/J412 and P/J226.

Check the wire between J412 and J226 for an open circuit or a short circuit (BSD 4.1A) **The wire between J412 and J226 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between P/J226-1 (+) and P/J226-2 (-) on the Fuser Motor. (BSD4.1A) **The voltage is approx. +24VDC.**

Y N
Measure the voltage between P/J425-1 (+) and P/J425-2 (-) on the MCU PWB (BSD 4.1A). **The voltage is approx. +24VDC.**

Y N
Measure the voltage between P/J426-1 (+) and P/J426-2 (-) on the MCU PWB (BSD 1.2A). **The voltage is approx. +24VDC.**

Y N
Measure the voltage between the P/J510-3 (+) and P/J510-7 (-) at the Power Unit, (BSD 1.2A). **The voltage is approx. +24VDC.**

Y N
Replace the Power Unit (PL 11.1).

Measure the voltage between P/J450-1 and P/J450-3 on the Relay PWB. **The voltage is approx. +24VDC.**

Y N
Measure the voltage between P/J450-6 and P/J450-2 on the Relay PWB. **The voltage is approx. +24VDC.**

Y N
Check the wires and connectors between J510 and J450 for an open or short circuit.

Replace the Relay PWB (PL 11.1).

Check the wires and connectors between J426 on the MCU PWB and J450 on the Relay PWB.

Replace the MCU PWB (PL 11.1).

Check the wires and connectors between J425 and J226 for an open or short circuit.

Measure the voltage between the MCU PWB P/J412-2 (+) and GND (-) (BSD 4.1A). **The voltage is approx. +5VDC.**

A

A

Y N
Go to BSDs 1.1A and 1.2A and check the +5VDC distribution. **+5VDC distribution is OK.**

Y N
Repair or replace as required.

Replace the MCU PWB (PL 11.1).

Replace the Fuser Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

Check the following wires for an intermittent circuit:

- Between J412-7 and J226-10 (BSD 4.1A)
- Between J412-6 and J226-9 (BSD 4.1A)
- Between J412-5 and J226-8 (BSD 4.1A)
- Between J412-4 and J226-7 (BSD 4.1A)
- Between J412-3 and J226-5 (BSD 4.1A)

If the problem continues, replace the Fuser Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

OF 5 Developer Motor RAP

Initial Actions

Ensure that the Front Interlock 1 Switch is actuated

Procedure

Execute Component Control [042-004 Developer Motor ON]. **The Developer Motor can be heard.**

Y N
Check the connections of P/J409 and P/J213. **P/J409 and P/J213 are connected correctly.**

Y N
Connect P/J409 and P/J213.

Check the wire between P/J409 and P/J213 for an open circuit or a short circuit (BSD 4.3A) **The wire between J409 and J213 is conducting without an open circuit or a short circuit.**

Y N
Repair the open circuit or short circuit.

Measure the voltage between P/J213-1 (+) and P/J213-2 (-) on the Developer Motor (BSD 4.3A). **The voltage is approx. +24VDC.**

Y N
Measure the voltage between P/J451-3 (+) and P/J451-4 (-) on the Relay PWB (BSD 1.2A). **The voltage is approx. +24VDC.**

Y N
Measure the voltage between the P/J450-4 (+) and P/J450-2 (-) on the Relay PWB, (BSD 1.2B). **The voltage is approx. +24VDC.**

Y N
Go to 7.3.27 Wire Net +24VDC-6. Troubleshoot the circuit between P/J510-3 and P/J450-4 for +24VDC.

Replace the Relay PWB (PL 11.1).

Check the wiring connectors between P/J451 pins 3 and 4 and P/J213 pins 1 and 2 for an open or short circuit. **The wiring and connectors are OK.**

Y N
Repair or replace as required.

Replace the Developer Motor (PL 1.1).

Measure the voltage between the MCU PWB P/J409-B12 (+) and GND (-) (BSD 4.3A). **The voltage is approx. +5VDC.**

Y N
Go to BSDs 1.1A and 1.2A and check the +5VDC distribution. **+5VDC distribution is OK.**

Y N
Repair or replace as required.

Replace the MCU PWB (PL 11.1).

A B
Replace the Developer Motor (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

Check the following wires an intermittent circuit.

- Between J409-B9 and J213-10 (BSD 4.3A)
- Between J409-B10 and J213-9 (BSD 4.3A)
- Between J409-B11 and J213-8 (BSD 4.3A)

If the problem continues, replace the Fuser Drive Assembly (PL 1.1) If the problem persists, replace the MCU PWB (PL 11.1).

A B

Revision

WorkCentre 7132

January 2007
2-881

Status-indicator-raps

OF 5

OF 6 Dark / Blank Display RAP

Touch Screen is dark with minimal legibility, or no text or graphics are visible, or text or graphics are distorted, or indicator LED's are not lit.

Initial Actions

Ensure all external cables and power cords are connected.

Procedure

NOTE: If a Status Code is displayed, go to the appropriate status code RAP.

There is some luminance in the UI display.

Y N
Switch off the power. Listen to the cooling fans on the right side and at the rear of the machine and switch on the power. **Cooling fans are audible either momentarily or continuously.**

Y N
There is a +5VDC failure. Go to BSD 1.1 and check 5VDC standby voltages.

+24VDC is measured between P/J1 pin 40 and ground on Control Panel (BSD 2.3).

Y N
+24VDC is measured between P/J388 pin 40 and pins 25, 26 on the ESS (BSD 2.3).

Y N
+24VDC is measured between P/J387 pin 5 and ground on the ESS (BSD 1.1).

Y N
+24VDC is measured between P/J510 pin 1 and ground on Power Unit (BSD 1.1).

Y N
AC voltage is measured between J11 pin 1 and J12 pin 1 on the Power unit (BSD 1.1).

Y N
AC voltage is measured at wall outlet.

Y N
Contact key operator to resolve power problem.

GFI Breaker is tripped.

Y N
Replace GFI Breaker (PL 11.1).

Reset GFI Breaker.

AC voltage is measured at J1 pin 3 and ground (BSD 1.1).

Y N
Replace Main Power Switch (PL 11.1).

Replace Power Unit (PL 11.1).

Go to BSD 1.1 and check circuit between P/J510 on Power Unit and P/J387 on ESS PWB.

A B C D

A B C D
Check Fuse 2 on the ESS PWB. If OK then replace ESS PWB (PL 11.2).

Go to BSD 2.3 and check circuit between P/J1 on Control Panel and P/J388 on ESS PWB.

Replace Control Panel (PL 13.1).

Check the Touch screen for one of the following:

- Distortion
- Misplaced characters
- Lines or spots
- Non-responsive icons
- Some illumination in the Touch Screen

The Touch Screen exhibits one of the above characteristics.

Y N
Characters are visible when shining flashlight onto display.

Y N
Replace Display PWB (PL 13.2). If problem persists replace Control Panel (PL 13.1).

Replace UI PWB (PL 13.2).

Replace Display PWB (PL 13.2). If problem persists replace Control Panel (PL 13.1).

Image Quality RAPs

IQ1 IOT Image Quality Entry RAP	3-3
IQ2 IIT Image Quality Entry RAP	3-5
IQ3 Low Image Density/Nearly Blank/Uneven Density RAP.....	3-6
IQ4 Wrinkled Image RAP	3-7
IQ5 Residual Image (Ghosting) RAP	3-8
IQ6 IOT Background RAP.....	3-8
IQ7 Deletions RAP	3-9
IQ8 Color-to-Color Misregistration RAP	3-9
IQ9 Skew/Misregistration RAP	3-10
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IQ1 IOT Image Quality Entry RAP

The purpose of this RAP is to serve as the entrance vehicle into the Image Quality RAPs section. All Image Quality RAPs must be accessed through this RAP.

The RAP will have you evaluate the copies made during the Call Flow procedure for image quality defects. It will refer you to the Image Quality Analysis RAPs, the Image Quality Defect section in order to diagnose and repair any image quality problems.

Initial Actions

Check for the presence of the defect in Copy mode and in Print mode. If the problem occurs in Copy mode only, go to the IQ2 RAP.

NOTE: MAX setup (ADJ 9.1.2), (refer to **User Guide**) is a color calibration for the copier and printer. A Calibration Adjustment compensates for differences between the actual and the expected (target) toner densities for each color. A Calibration Adjustment should be performed whenever there is a noticeable change in the appearance (quality) of the output, particularly changes in color tones or densities. Performing a Calibration Adjustment on a regular basis will help to maintain consistent color quality over time. Since a Calibration Adjustment can affect all jobs for all users, **it is recommended that this procedure be performed only by the Machine Administrator.**

Perform the Calibration Adjustment if any of the following problems are reported:

- Incorrect colors
- Poor gray balance
- Colors have shifted over time
- Color densities too high or low

Continue with the procedure if the problem remains.

Procedure

Go to Table 1. Examine the prints for any of the listed defects. Perform the corrective action that is listed.

Table 1 Image Quality Defects

Defect - green indicates hotlink to image samples	Description	Corrective Action
Background	Undesirable toner deposits on the copy or print. The toner deposits can be localized or may cover the entire copy or print. Depending on the density of the background, it is referred to as low, medium, high, or very high background. It may occur in all colors, single colors, or any combination of single colors.	Go to the IQ6 RAP
Color Misregistration	Multi-colored images that should be superimposed are offset. This offset may be in the process direction or perpendicular to process direction.	Go to the IQ8 RAP
Deletions <ul style="list-style-type: none"> • Debris-Centered Deletions • Streak Deletion in Process Direction 	The undesirable absence of toner from the copy or print. May show as white, light, or untrue colored areas. The most common causes are "tenting" of paper from mishandling or moisture, or defects in the Transfer Belt. <ul style="list-style-type: none"> • Debris-Centered: Deletions in the areas surrounding toner agglomerates. • Process Direction Streak: A deletion in the form of a single streak that runs from the lead edge to the trail edge of the copy. 	Go to the IQ7 RAP (for process direction streak deletion, go to the IQ12 RAP)
Fuser Offset	Areas of poorly-fused toner are lifted from one area of a print and deposited on a different area, or onto a subsequent print.	Go to the IQ13 RAP
High Frequency Bands	Repeating interval bands that are most noticeable in low density (20-30%) halftone areas of the copy. These bands run perpendicular to process direction.	Go to the IQ14 RAP
Irregular Process Direction Streak	Streaks: Usually medium-width streaks of (or shifts in) color most noticeable in low density 20-30% halftone areas of the copy. A deletion in the form of a single streak that runs from the lead edge to the trail edge of the copy.	Go to the IQ12 RAP
Lead Edge Toner Smear (fused)	Smears of fused toner on the lead edge of prints	Go to the IQ12 RAP
Lead Edge Toner Smear (unfused)	Smears of unfused toner on the lead edge of prints	Go to the IQ13 RAP
Low Image Density	A condition that results when too little toner of a single color or combination of colors is developed on the copy or print. This results in lighter copies or prints for the single-color toner or the color that results from the combination of color toners.	Go to the IQ3 RAP
Misregistration/Skew	The position and/or alignment of the image relative to the top edge and side edge of the paper is not within specification.	Go to the IQ9 RAP

Table 1 Image Quality Defects

Defect - green indicates hotlink to image samples	Description	Corrective Action
Missing Colors	One or more of the primary colors are missing from the image.	Go to the IQ17 RAP
Mottle	Areas of solid, or high density coverage that are reproduced with a blotchy, non-uniform appearance.	Go to the IQ15 RAP
Regular (Repeating) Bands, Streaks, Spots, or Smears	A defect that repeats at an interval from 14 to 264 mm, is most noticeable in low density (20-40%) halftone areas of the copy, and runs perpendicular to process direction. Lines and bands are generally uniform in shape from one end to the other. Streaks are generally shorter than lines and are of nonuniform width along their length. They may have a more ragged or fuzzy appearance than lines.	Go to the IQ14 RAP
Residual Image	A toner image that remains on the photoreceptor or Transfer Belt after cleaning. The next image is placed on top of the residual image and both images are transferred to the next copy.	Go to the IQ5 RAP
Spots	Generally circular in shape, these defects can be caused by an absence of toner in a desired area, or a deposit of toner in an undesired area	Go to the IQ16 RAP
Unfused prints	Image can be rubbed off with little or no pressure	Go to the IQ13 RAP
Wrinkled Image	Areas of 11x17 in./A3 prints have distinctive "worm track" patterns, and/or wrinkles in the paper itself	Go to the IQ4 RAP

IQ2 IIT Image Quality Entry RAP

This RAP is for troubleshooting IIT (Scanner/ADF) problems only. Before proceeding, verify that the defect is present in Copy mode only. If the defect is present in Print mode, go to the IQ1 RAP.

Initial Actions

Clean the Lens, the top and bottom surface of the Platen Glass, and all Mirrors with Lens and Mirror Cleaner and a soft, lint-free cloth.

Procedure

Compare the defective copies with the descriptions listed in Table 1. Perform the corrective action listed for that defect.

Table 1

Defect	Corrective Action
Background	Clean the Platen Belt. Calibrate the IIT (ADJ 9.1.8).
Blurred or Streaked Copy	Ensure that the Platen Glass is installed correctly. Check/adjust the carriage alignment (ADJ 11.6.1).
Deletions	Clean the Lens, the top and bottom surface of the Platen Glass, and all Mirrors with Lens and Mirror Cleaner and a soft, lint-free cloth. If the problem persists, replace the Lens Kit (PL 13.4).
Misregistration/Skew	Go to the IQ9 RAP.
Moire Patterns in the image areas of the print that have the appearance of a screen or grid overlaying the image. The pattern may be uniform or nonuniform in area or shape.	<ul style="list-style-type: none"> • Switch between photo modes and, if necessary, original types, to determine which mode minimizes the defect. • Decrease the Sharpness level. • Reduce or enlarge the copy slightly. • Rotate the original on the platen by 90 degrees.
Newton Rings Repetitive, irregular-shaped marks that occur when making copies of glossy photographs. These marks are most noticeable in large low-density or highlight areas.	Clean the Document Glass Place a transparency between the document and the glass

IQ3 Low Image Density/Nearly Blank/Uneven Density RAP

This RAP troubleshoots the causes of output images are completely blank or has extremely low density

Initial Actions

- Clean the ROS window
- Replace the paper in use with fresh, dry paper of the correct specification
- Determine if the Drum Cartridge or any of the Toner Cartridges are approaching end-of-life. Replace if necessary.
- Check the Contact Arms are in the proper position (PL 6.2).
- Perform Max Setup (ADJ 9.1.2). If this does not resolve the problem, continue with this RAP.

Procedure

Print Test pattern 59 for each color (C,M, Y, K) at 40%. **The defect involves a single color.**

Y N

Panic stop the machine by removing the IBT Cleaner Assembly (PL 6.1). Print Test pattern 59 using Cyan 40%. Open the Front Door in the middle of the print job (approximately 7 seconds after selecting Start). Remove the Fuser. Remove the paper. **There is a good toner image on the Transfer Belt at the 2nd BTR/Back Up Roll nip.**

Y N

Go to the IQ21 RAP to check the Developer 1st BTR. If this does not resolve the problem, go to BSD 9.5 and check the circuit.
If the problem continues, check the ROS for contamination of the window.

Check the Contact Arms (PL 6.2) are in the proper position.

Check the 2nd BTR for damage or incorrect installation. If the problem continues, replace 2nd BTR Assembly (PL 2.7). If this does not resolve the problem, replace the IBT Belt (PL 6.2).

Replace the Developer Housing (PL 5.2) and material for the problem color.

IQ4 Wrinkled Image RAP

Areas of 11x17 in./A3 prints have distinctive “worm track” patterns in the image, and/or wrinkles in the paper itself.

Initial Actions

NOTE: The following factors will increase the likelihood of this problem:

- *Lighter weight papers.*
- *Larger papers.*
- *Short-grain 11x17 in / A3 papers.*
- *Old (not freshly opened) paper.*
- *2 sided printing*
- *Fuser with 1100 or more hours of operating life.*

Make the following modifications to the copy/print jobs if possible:

- Ensure that the paper is dry and fresh.
- Use heavier weight paper
- Use long-grain paper.

Procedure

If the problem persists after performing the Initial Actions, replace the Fuser (PL 7.1).

IQ5 Residual Image (Ghosting) RAP

Initial Actions

- Check the end-of-life counter for the Drum Cartridge. If the unit is at or near end-of-life, replace the Drum Cartridge (PL 4.1).

NOTE: Some ghosting on transparencies is unavoidable.

- If the problem occurs only with certain types of media, ensure that the media in use is within specification, and that the customer is aware of correct operation of print driver.
- If the distance between the intended image and the residual image has a fixed rate of repetition, go to the IQ14 RAP. Return to this procedure if the problem persists.

Procedure

The Erase lamp is lit.

Y N

Go to BSD 9.6. Check for an open circuit. If the wires are OK, replace the Erase Lamp (PL 4.1). If the problem continues, replace the MCU PWB (PL 11.1).

Remove the Fuser. Examine the Heat Roll and Pressure Roll for evidence of toner offsetting.

There is Toner adhering to the Heat Roll.

Y N

Check for a residual image on the Transfer Belt. Repair or replace the IBT Cleaner (PL 6.1).
Check the 2nd BTR for contamination. Clean/replace as required

Clean the Heat Roll. If the problem continues, replace the Fuser (PL 7.1). If the problem persists, go to the IQ21 RAP. Check for a short circuit in the Developer bias circuit of the affected color.

IQ6 IOT Background RAP

This RAP is used when the output image shows background greater than the specification.

Initial Actions

NOTE: Some background is unavoidable on certain media, such as heavyweight paper and transparencies. Ensure that the customer selects the correct settings on the UI and print driver. Check access mode to make sure all density settings are set to normal settings.

Perform Max Setup (ADJ 9.1.2). If this does not resolve the problem, continue with this RAP.

NOTE: After replacing the developer material, clean the ADC Sensor and reset the Developer NVM's (REP 4.2.7).

Procedure

Print Test Pattern 54 or 53. **Background is present.**

Y N

Go to Final Actions.

Background is present in all four colors.

Y N

Replace the Developer Material for the faulty color. If the problem continues, replace the Developer Housing for the faulty color.

Go to IQ21 Developer Bias/1st BTR RAP. **The RAP fixes the problem.**

Y N

Replace the Developer HVPS (PL 11.1).

Go to Final Actions.

IQ7 Deletions RAP

Initial Actions

Reload with fresh, dry paper of the correct specifications. If the problem occurs with heavy-weight paper, ensure that the correct selections are being made on the print driver and/or UI. If the problem is not resolved, continue with this RAP.

NOTE: *Small white deletions with a sharp edge are usually caused by Fuser offsetting. Go to the IQ16 Spots RAP.*

Procedure

The problem is Debris-Centered Deletions.

Y N
Print Test Pattern 59 at 50% coverage for each color. **The defect is present for all colors.**

Y N
Make several prints of the Test Pattern in the affected color. **The defect is present in approximately the same location on all letter-size prints.**

Y N
Remove the Drum cartridge. Check for light from the Erase Lamp along the mounting left side **The Erase lamp is lit.**

Y N
Replace the Drum Cartridge.

Go to BSD 9.6. Check for an open circuit. If the wires are OK, replace the Erase Lamp (PL 4.1). If the problem continues, replace the MCU PWB (PL 11.1).

Remove the ROS. Examine the ROS windows for dirt or damage. Clean or replace as required (PL 3.1).

Examine the surface of the Drum Cartridge. Check for dents, scratches, or contamination such as fingerprints, etc. **The drum is free from damage.**

Y N
Clean or replace the Drum Cartridge.

Check the IBT Belt (PL 6.2) for dirt, damage, or contamination. Clean/replace as required. Check the 2nd BTR (PL 2.7) for damage or wear. Clean or replace if required.

Examine the spot in the center of the DCD. Replace the Developer (PL 5.1) and Toner Cartridge for the affected color. If the problem persists, replace the Developer Housing for the affected color (PL 5.2).

IQ8 Color-to-Color Misregistration RAP

Procedure

The problem involves a single color.

Y N
Check that the ROS is securely mounted and that the ROS window is not dirty or damaged. If the problem persists, replace the ROS (PL 3.1).

Check the mounting of the Developer Housing for the affected color. Ensure that it is installed correctly and that it is free from damage. Repair or replace as required (PL 5.2).

IQ9 Skew/Misregistration RAP

This RAP is used when Skew, System Registration, or Magnification are out of specification. For Color-to-Color-Misregistration, go to the IQ8 RAP.

Initial Actions

Load some new, dry 24 lb. 11X17/A3 Xerox COLOR Xpressions (USSG), or 90 GSM Colortech + (ESG) into each paper tray (use 8.5X11/A4 in Tray 1). Make 3 full color copies from each paper tray. Mark the appropriate paper tray on these copies.

Procedure

The problem is still present when using the proper paper.

Y N

Explain to the customer that new, dry, 24 lb. Xerox COLOR Xpressions (USSG), or 90 GSM Colortech + (ESG) paper is specified for is machine.

The problem occurs only in the printer mode.

Y N

The defect occurs when the document is manually registered on the platen glass.

Y N

Ensure that the Document Transport Belt is clean. Check the Document Handler Adjustments (ADJ 15.1.1 through ADJ 15.1.6). If the problem continues, check the DADF drive rolls and pinch rolls for wear or glossing.

The problem is Skew

Y N

The problem is Misregistration

Y N

Adjust the IIT Lead Edge/Side Edge Registration (ADJ 11.1.1) and the IOT Lead Edge/Side Edge Registration (ADJ 9.1.1).

Print Pattern 58. **Misregistration is present on the copy**

Y N

Adjust the IOT Lead Edge/Side Edge Registration (ADJ 9.1.1), then the IIT Lead Edge and Side Edge Registration (ADJ 11.1.1).

The defect occurred on copies from all five paper trays.

Y N

Check the IOT Lead Edge/Side Edge Registration (ADJ 9.1.1) for that tray. Check the feeder for the affected tray for wear, slipping, damage, or contamination.

- Tray 1 Feeder (PL 14.3)
- Tray 2 Feeder (PL 14.3)
- Tray 3 Feeder (PL 14.1)
- MSI Feed Assembly (PL 9.2)

Registration varies from copy to copy.

Y N

Go to ADJ 9.1.1, Lead/Side Edge Adjustment.

A B C

Check the components in the Registration Transport Assembly (PL 2.5) for wear, slipping, damage, or contamination. Clean/replace as required

The defect occurred on copies from all five paper trays.

Y N

Check the components in the Registration Transport Assembly (PL 2.5) for wear, slipping, damage, or contamination. Clean/replace as required

Check the IOT Lead Edge/Side Edge Registration (ADJ 9.1.1) for that tray.

Check the feeder for the affected tray for wear, slipping, damage, or contamination.

- Tray 1 Feeder (PL 14.3)
- Tray 2 Feeder (PL 14.3)
- Tray 3 Feeder (PL 14.1)
- MSI Feed Assembly (PL 9.2)

The problem occurs on all jobs.

Y N

Have the customer re-evaluate affected jobs and resend.

Refer to the User Guide.

A B C

Image Quality

IQ9

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WorkCentre 7132

IQ12 Process Direction Bands, Streaks, and Smears RAP

Initial Actions

- Clean the IBT Cleaner. Check for wear or damage
- Check the stripper baffle in the Fuser for contamination.
- Check the 2nd BTR and the Detack Sawtooth for Toner contamination.

Procedure

NOTE: The repetition rate for Transfer Belt defects varies considerably, depending on paper size and mode of operation. The defect may appear every sheet, or may occur every other sheet.

The defect occurs in approximately the same position on multiple prints.

Y N

If the defect occurs intermittently, examine the Developer Housings for evidence of toner clumping. If clumping is found, replace the Developer (PL 5.2). If this does not resolve the problem

The defect is a full-width (LE - TE) Streak Deletion in Process Direction.

Y N

Remove the Fuser Assembly. Examine the Heat Roll for damage or contamination. Clean or replace as required (PL 7.1).
Check the IBT Cleaner (PL 6.1). Ensure that the blade and the Mylar backing are free from damage. Check that the auger turns freely. Clean repair or replace as required
Check the Developer Housing (PL 5.2). Repair or replace as required.
Check the Drum Cartridge for defects, nicks, spots and/or contamination.
If the problem is related to a single color, replace the Drum Cartridge (PL 4.1).

Print Test Pattern 59 at 20% coverage pattern for all colors. **The defect is present for all colors.**

Y N

- Go to BSD 9.5 to check the 1st BTR bias circuit.
- Replace the Developer Housing (PL 5.2) for the affected color. Check the housing for damage or toner clumping.
- If the problem continues, replace the HVPS (PL 11.1).

Check the ROS window for damage or contamination. Clean or replace as required.

Remove the IBT Cleaner (PL 6.1). Inspect the cleaning blade and Mylar seal for damage. Clean or replace as required.

If the IBT Cleaner is OK, check the IBT Belt (PL 6.2) for damage or contamination. Ensure that there is no debris or loose wiring, etc. in contact with the belt. Clean or replace as required.

IQ13 Unfused Copy/Toner Offset RAP

Initial Actions

- Replace the paper in use with fresh, dry paper of the correct specification.
- Check the post-Fuser transport areas for dirt.
- Ensure that the media being used matches the settings on the UI screen or print driver. Using the next heavier setting may resolve the problem.
- If the Key Operator/Administrator has configured certain trays for a specific type of media, ensure that the specified media is actually loaded in those trays.

Procedure

Check the following:

- Check the Fuser (PL 7.1) for damage, toner offsetting, paper wrap, or incorrect installation. Clean or replace as required.

After resolving the problem, make 10 blank copies (letter size, Black mode) to cleaner residual toner from the Fuser Heat Roll and Fuser Pressure Belt. If the problem persists, replace the Fuser (PL 7.1).

IQ14 Repeating Bands, Streaks, Spots, and Smears RAP

Procedure

Measure the distance between the repeating defects. Locate the distance on the table below.
Perform the indicated repair actions

Table 1 Repeating Defects

Repetition spacing	Component(s)	Repair Actions
<4 mm	High Frequency Banding	Replace the ROS (PL 3.1).
27 mm	Developer Mag Roll	Check Developer roll bias for floating or shorting out. Replace Developer Housing (PL 5.2) if required.
148 mm	Drum Cartridge	Replace the Drum Cartridge(PL 4.1).
83 mm	Fuser Heat Roll	Remove the Fuser Assembly. Check the Heat Roll for damage (nicks, wear, or cuts) or contamination. Clean or replace as required (PL 7.1).
88 mm	Backup Roll BTR 2 Roll	Check the 2nd BTR Assembly for damage or contamination. Clean, repair or replace as required (PL 6.1). Replace the IBT Belt (PL 6.2).
94 mm	Drum Cartridge Fuser Belt	All Colors - Remove the Fuser Assembly. Check the Heat Roll for damage (nicks, wear, or cuts) or contamination. Clean or replace as required (PL 7.1).
59mm	1st BTR	Replace the IBT Assembly (PL 6.1).
74mm	Developer Drive Components	Replace the Developer Motor (PL 5.1).
44mm	BCR	Replace the Drum Cartridge (PL 4.1).
38mm	BCR Cleaner	Replace the Drum Cartridge (PL 4.1).

IQ15 Mottle RAP

This RAP troubleshoots the causes of output images showing image density that varies from inboard to outboard edges, or randomly throughout the print.

Initial Actions

- Replace the paper in use with fresh, dry paper of the correct specification. Ensure that the loaded media matches the UI or print driver settings.
- Determine if the Drum Cartridge or any of the Toner Cartridges are approaching end-of-life. Replace if necessary.
- Perform Max Setup (ADJ 9.1.2). If this does not resolve the problem, continue with this RAP.

Procedure

Print Test Pattern 54. **The defect involves a single color.**

Y N
Make a print of the Test Pattern 53. Open the Front Door when the lead edge of the print begins to protrude from the Fuser Exit nip. Open the Fuser and examine the partially-fused sheet. **The defect is present in both the fused and unfused portion of the sheet.**

Y N
Clean or replace the Fuser (PL 7.1).

Print Test Pattern 53. As the print is being processed, open the Front Door. Examine the image on the Transfer Belt. **The image on the belt has acceptable density.**

Y N
Replace the IBT Belt (PL 6.1). If the problem continues, replace the Drum Cartridge (PL 4.1)

Clean/replace the 2nd BTR Assembly (PL 6.1).
If the problem continues, replace the IBT Belt (PL 6.1).

Check the following:

- Clean the HV contact for the developer in question
- Replace the Toner Cartridge if not done previously
- Replace the Developer (PL 5.2). Examine the housing for damage, wear, or contamination

IQ16 Spots RAP

Initial Actions

Ensure that the paper in use is fresh, dry, and within specification for weight and quality.

Check print driver and copier control panel settings to ensure the media is being run in the proper mode.

Compare the spots against the samples in the Image Quality Defects supplement. If the defect matches the Debris Centered Deletions sample, go to the IQ7 RAP.

Procedure

The defect occurs in Copy mode only.

Y N

The spots occur at a fixed interval on each print.

Y N

NOTE: The repetition rate for Transfer Belt defects varies considerably, depending on paper size and mode of operation. The defect may appear on every sheet, or may occur on every other sheet.

The defect occurs in approximately the same position on multiple prints.

Y N

The problem is Fuser offset and/or lead edge smears or spots.

Y N

CAUTION

Do not use a vacuum cleaner or any solvents in the following step. Damage to the Belt Cleaner will result.

Remove the IBT Cleaner (REP 4.2.4). Carefully clean the cleaning blade and the Mylar shield with a soft brush or a lint free cloth. Brush away any accumulation of toner on the foam seal and the outside surfaces. Wipe the surface of the Transfer Belt with a lint free cloth.

If the problem continues, replace the IBT Cleaner (PL 6.1).

Go to the IQ13 RAP.

Check the IBT Belt (PL 6.1) for dirt or damage. Clean or replace as required.

Go to the IQ14 RAP.

Ensure that the original is free from the defect.

Clean the Platen Glass and Lens.

IQ17 Missing Colors RAP

One or more of the primary (YMCK) colors is missing from the image.

Procedure

Go to the IQ21 Developer Bias RAP to check the developer bias circuit.

If the circuits are OK, ROS for damage or contamination. Clean, repair or replace as required (PL 3.1).

Check the Developer Drive Assembly and Clutch Assembly for damage, slippage, and/or binding, replace as required (PL 1.1).

Check the gears of the Developer Housings for damage, slippage, and/or binding, replace as required (PL 5.2).

IQ21 Developer Bias/1st BTR RAP

BSD-ON:9.5

Procedure

WARNING

HIGH VOLTAGE!

Exercise caution when performing the voltage checks in this procedure.

There should be approximately -520 to -580 VDC (+/- 10%) present. Check the Developer Bias VDC on the front of the machine. **The voltages are within range.**

Y N
+24 VDC is measured between pins 17, 16 and pin 15, 14, 9 of J500 on the HVPS.
Y N
+24 VDC is measured between pins 1,2 and pin 3, 4, 9 of J406 on the MCU PWB.
Y N
Go the BSD 1.2 DC Power Distribution and check the wiring between the MCU PWB and the Power Unit. **The wiring is OK.**
Y N
Repair or replace as required.
Replace the MCU PWB (PL 11.1).
Check the wires between P/J406 and P/J500 for an open circuit.
Check for Developer Bias VDC on the red wire at the front of the machine. **The Bias voltage is present.**
Y N
Check the red wire for an open circuit, if the wire is OK, replace the HVPS (PL 11.1).
Replace the Drum Cartridge (PL 5.1).
Check for +24VDC between P/J500-16, 17(+) and 14, 15(-) on the HVPS. **+24VDC is measured.**
Y N
Go to BSD 9.5. Check for +24VDC between P/J406-1, 2 (+) and 3, 4(-) on the MCU PWB. **+24VDC is measured.**
Y N
Go to BSD 1.3 and check the interlock circuit for an open.
Check the connectors and wiring between P/J406 and P/J500 for an open circuit.
Check the 1st BTR Monitor Voltage on the HVPS between P/J500-13(+) and GND. **The voltage is OK.**
Y N
Check the 1st BTR Monitor Voltage between P/J406-5(+) and GND. **The voltage is OK.**
Y N
Replace the MCU PWB (PL 11.1).
Check the connectors and wiring between P/J406 and P/J500 for an open circuit.

A

If the problem continues, replace the HVPS (PL 11.1). If the problem persists, replace the 1st BTR (IBT Belt Assembly) (PL 6.2).

Image Quality Specifications

The following steps are used to set up the machine for the purpose of making test pattern copies to judge output image color density, balance, and registration.

1. Set the following Customer Mode Settings to the positions listed:
 - a. Output Color - Full Color
 - b. Original Type - Photo & Text / Halftone
 - c. Lighter/Darker - Auto Contrast
 - d. Variable Color Balance - Normal
 - e. Color Saturation - Normal
 - f. Sharpness - Normal
2. Place the Color Test Pattern, 82E13120, on the platen. Load 11" X 17 or A3 paper into Tray 1. Make a copy of the test pattern.
3. Compare the copy to the test pattern. Refer to Figure 2 and Table 1 for this evaluation.

Table 1 Color Specifications Check Locations

AREA (Fig. 1)	Check for the Following Results
A	Text Reproduction. Each of the seven sentences in this area are fully reproduced with no missing letters or portions of letters. The sentences are reproduced in Black, Cyan, Magenta, Yellow, Red, Green and Blue.
B	Color Registration. The patterns in location B should be properly registered to provide Black, Red, Green and Blue lines.
C	Front to Rear Density. The density of both the low density and high density bands should be uniform from front to rear. This can be tested by folding the copy in the center and comparing the front side of the copy to the rear side of the copy at location C. Both the high density and low density locations should exhibit even front to rear density.
D	Color Gradation. This area should exhibit a decreasing density of each of the colors from 100% density to 5% density. In a properly adjusted machine, the 10% patches should be visible and the 5% patches should be barely visible or not visible on the test pattern copy (except for the bottom row).
E	Routine Color. Location E represents three general tests for the machine to reproduce colors common to customer originals. Location A is a general skin tone test. Location B represents the color of grass or other common foliage. Location C represents the color of the sky.
F	Photo Gradation. Location F is not used for any copy quality evaluation on this product.
G	IIT Calibration Patches. These patches are scanned for IIT Calibration during the IIT Calibration portion of Max Setup.
H	100 Lines/Inch Image. A Moire defect will show on this image. Moire on a 100 Line/Inch image is within specification.
I	175 Lines/Inch Image. This image is used to test for Moire. Depending on the degree of the defect, moire seen on this image should be considered out of specification.

Registration and border deletions are checked using the Step Scales on the Geometric Test Pattern, 82E8220, an example of which is shown in Figure 1. All of the scales are 20mm in height, and are made up of four 5mm steps. Step 1 will be described as at the top of the Step Scale, and Step 4 will be described as at the bottom.

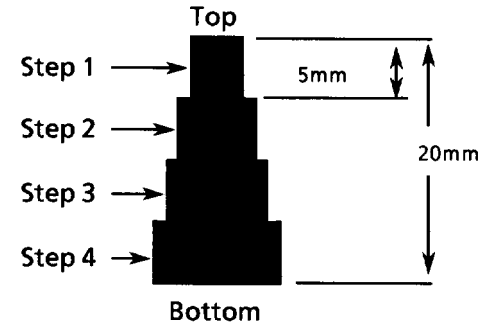


Figure 1 Step Scales

Each Step Scale is positioned for a particular paper size and orientation. Table 2 indicates the appropriate Step Scales to use for the various paper sizes, orientations and measurement locations.

Table 2 Geometric Checkout - Step Scale Data.

Paper Size	Orientation	To check:	Step Scales to use (refer to Figure 2)
11x17	SEF	Lead Edge Side Edge Trail Edge	LE1 through LE3 SE1 through SE4 (top); SE5 and SE8 (bottom) TE3
A3	SEF	Lead Edge Side Edge Trail Edge	LE 1 through LE3 SE1 through SE4 (top); SE6 and SE7 (bottom) TE4
8.5x11	SEF	Lead Edge Side Edge Trail Edge	LE 1 and LE2 SE1 through SE3 (top); SE9 (bottom) TE5
A4	LSEF	Lead Edge Side Edge Trail Edge	LE 1 and LE2 SE1 through SE3 (top); SE10 (bottom) TE6
8.5x11	LEF	Lead Edge Side Edge Trail Edge	LE1 through SE3 SE1 and 2 (bottom) SE6 and SE7 (top) TE 2
A4	LEF	Lead Edge Side Edge Trail Edge	LE1 through SE3 SE5 (top); SE1 and SE2 (bottom) TE1

1. Set the following Customer Mode Settings to the positions listed:
 - Output Color - Black

- Original Type - Text
 - Lighter/Darker - Auto Contrast
 - Color Saturation - Normal
 - Variable Color Balance - Normal
 - Sharpness - Normal
- Place Test Pattern 82E8220 on the platen and 24# Xerox Color Xpressions 11 X 17 (USSG), or 90 GSM Colotech A3 (XL) paper in Tray 1. Make a copy of the test pattern.
 - Follow the directions in Table 3 to determine if the machine registration is within specification.

Table 3 Test Pattern Image Data Locations for Geometric Specifications

GEOMETRIC AREA	CHECK PERFORMED
Magnification	Locate the 300mm line running from near LE1 to the trail edge of the 1.8 lp ladder. Locate the 200mm line running from near LE1 to near LE3. Make a copy. The measurements should be: <ul style="list-style-type: none"> • Left to Right: 300mm \pm1.8mm • Front to Rear: 200mm \pm1.2mm
Resolution	Observing the targets on the test pattern copy at locations R1 through R8, the line pairs specified below are clearly visible for the magnification value indicated: <ul style="list-style-type: none"> • 70%: 3.0 lp/mm • 100% through 400%: 4.3 lp/mm
Lead Edge Registration	Measure from the lead edge of the paper to the top of Step 3 on the LE2 Step Scale. The measurement should be: <ul style="list-style-type: none"> • Trays 1 through 4: 10mm \pm1.5mm (\pm1.9mm for 2nd side of duplex job) • Tray 5: 10mm \pm2.2mm
Side Edge Registration	Measure from the side edge of the paper to the top of Step 3 on the SE2 and SE3 Step Scales. The distance should be within the following tolerance: <ul style="list-style-type: none"> • Trays 1 through 4: 10mm \pm2.0mm (\pm2.4mm for 2nd side of duplex job) • Tray 5: 10mm \pm2.4mm
Lead Edge Skew	For skew from front to rear, the distance from the lead edge of the paper to the targets at LE1 and LE3 are measured. The measurements must match each other to within the tolerance below. <ul style="list-style-type: none"> • Trays 1 through 4: within \pm1.5mm (\pm2.0mm for 2nd side of duplex job) • Tray 5: within \pm2.0mm
Side Edge Skew	For skew from left to right, the distance from the side edge of the paper to the targets at SE1 and SE4 are measured. They must match each other to within the tolerance below: <ul style="list-style-type: none"> • Trays 1 through 4: within \pm3.0mm (\pm4.0mm for 2nd side of duplex job) • Tray 5: within \pm4.0mm
Line Density	This parameter is measured on the two 0.7G Text Blocks on the test pattern copy. The machine should reproduce all of the characters shown in the block on the output copy.
Solid Reproduction	This specifies the desired standard for reproduction of solid gray images at 1.0 K. The 1.0 K blocks on the output copy should reproduce with minimal mottle or graininess.

Table 3 Test Pattern Image Data Locations for Geometric Specifications

GEOMETRIC AREA	CHECK PERFORMED
Low Contrast Reproduction	This specifies the desired standard for reproduction of low density images. The machine should reproduce all of the text in the 0.2 G Text Blocks on the output copy.
ROS Borders (Image Loss)	Measure from the lead edge of the paper at LE2, the side edge of the paper at SE2 and SE7, and the trail edge at TE4, to the top edge of the step scales in those locations. The measurements should conform to the following specifications: <ul style="list-style-type: none"> • Lead Edge 4mm \pm 1 mm • Side Edges 2 mm \pm 1 mm • Trail Edge 2 mm \pm 1 mm

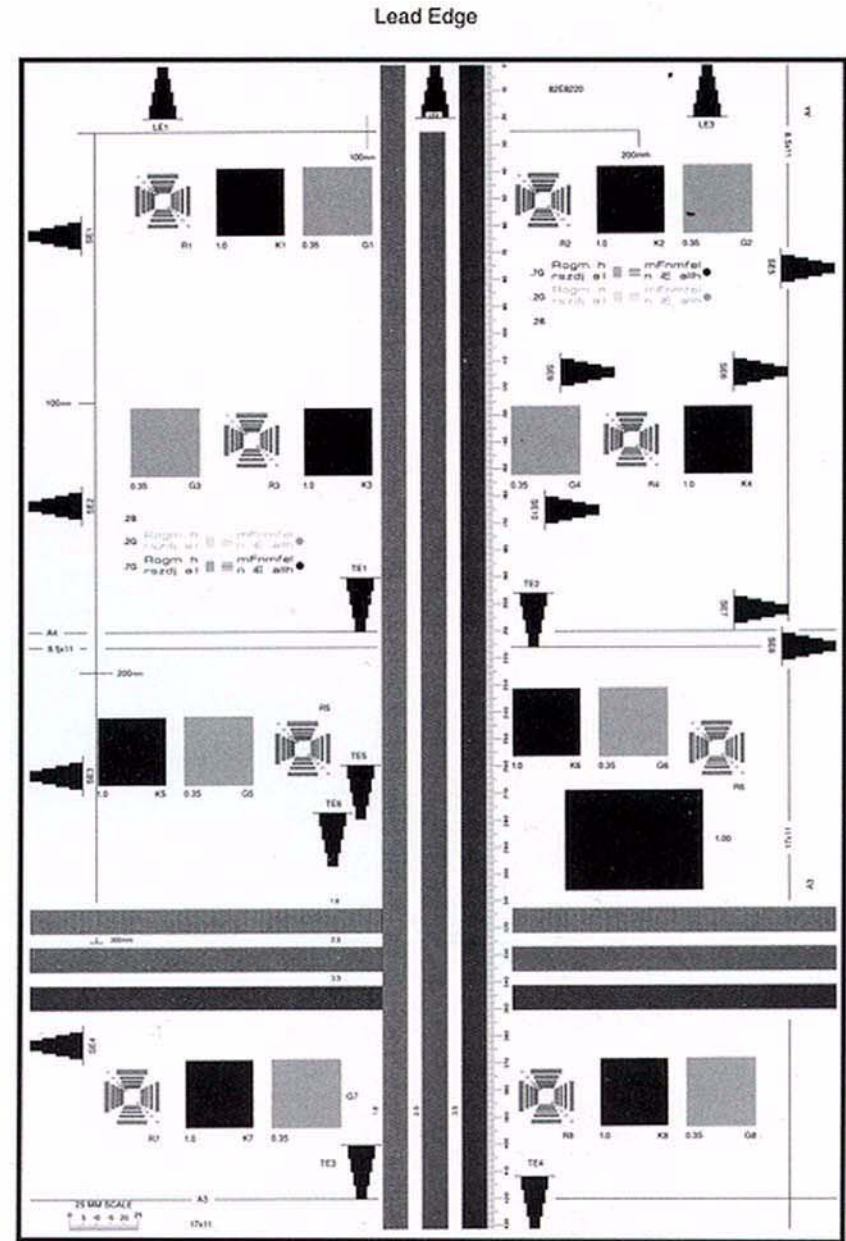
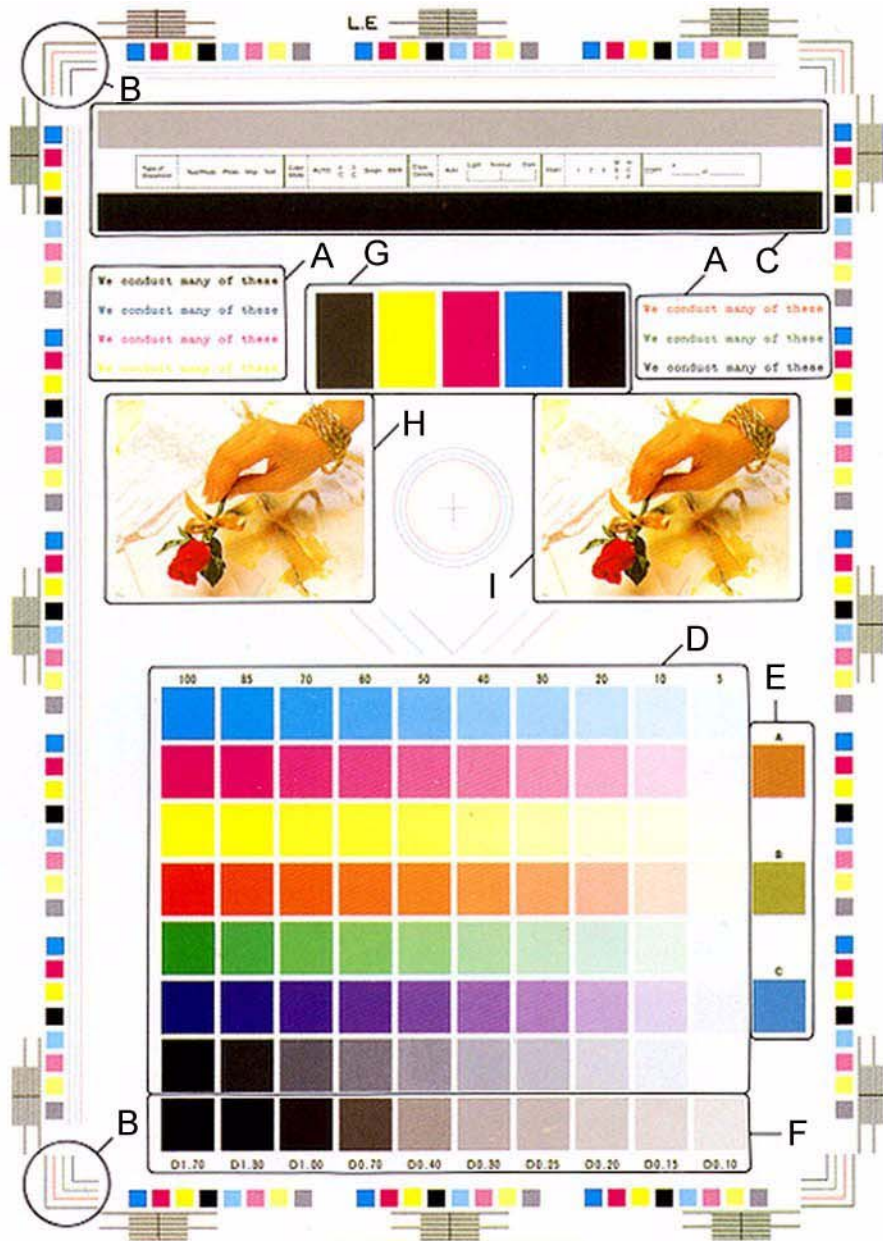


Figure 2 Color and Geometric Test Patterns

Image Defect Samples

The following figures contain examples of defects and their possible causes.

- Background
- Color Misregistration
- Debris-Centered Deletions
- Deletions
- High Frequency Bands
- Irregular Process Direction Streak
- Low Image Density
- Moire
- Mottle
- Newton Rings
- Regular (Repeating) Bands, Streaks, Spots, or Smears
- Residual Image
- Streak Deletion in Process Direction
- Wrinkled Image
- Worm Defect
- Auger Marks Defect (Black)
- Auger Marks Defect (Magenta)
- 59mm Pitch Density Non-Uniformity Defect
- 201mm Streaks from the lead edge Defect
- M, C, K Banding Defect
- 103mm Streaks from the lead edge Defect
- Scratches on Transparency Defect
- Toner Soft Blocking Defect
- Toner Dam Ghosting Defect

Background

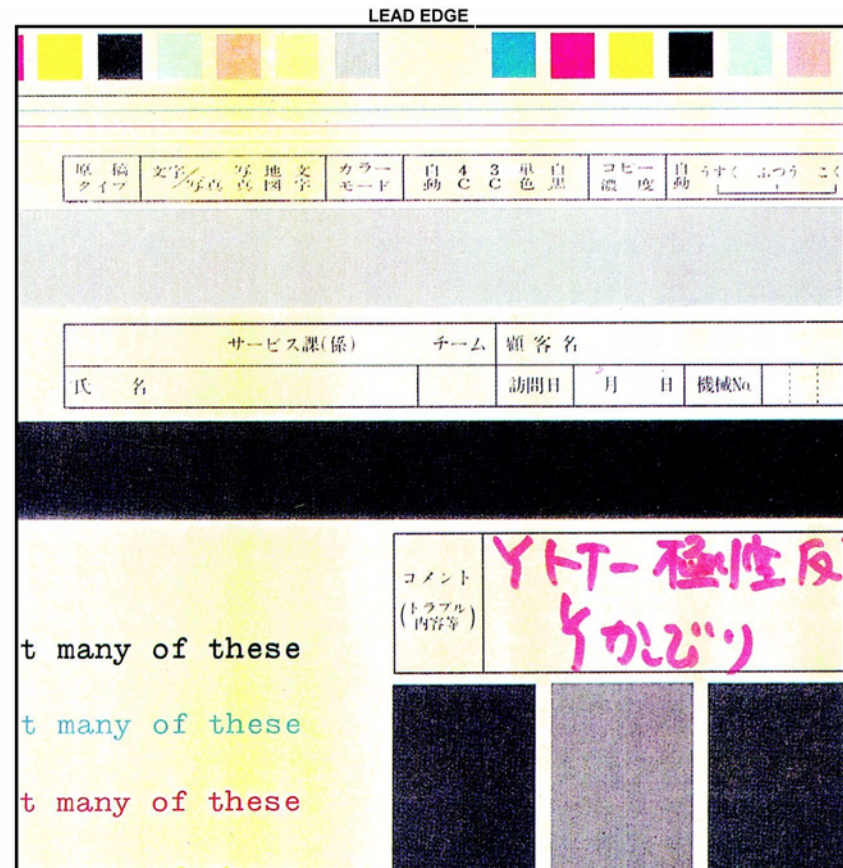


Figure 1 Background Defect Sample

Cause

Incorrect Electrostatics, high TC, faulty ADC Sensor

Corrective Action

Go to the IQ6 RAP.

Color Misregistration

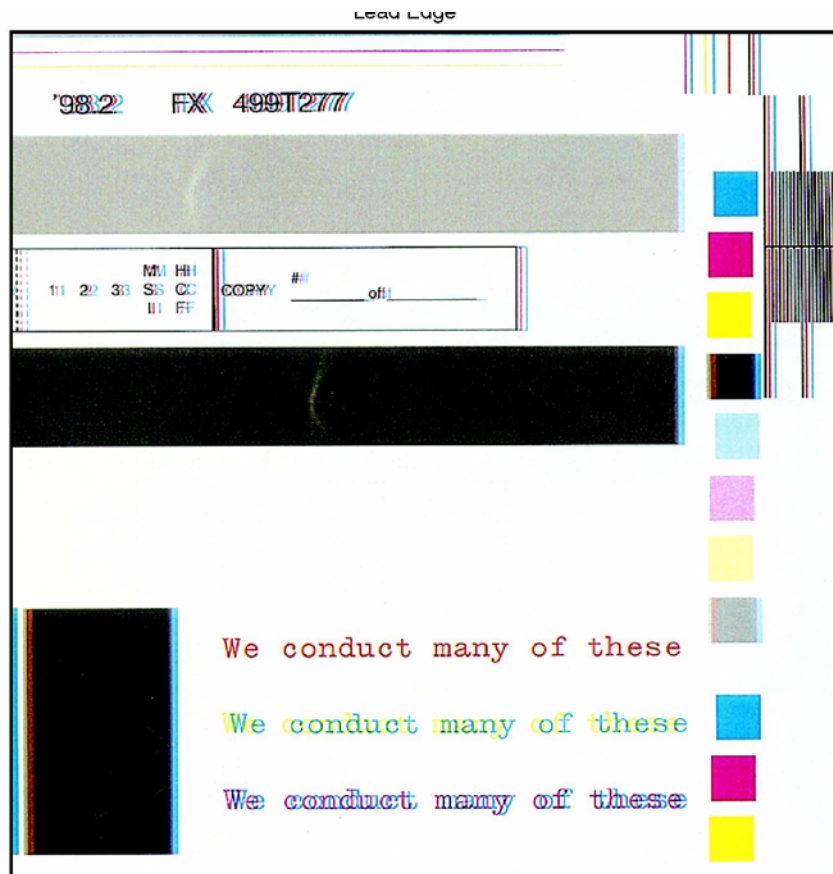


Figure 1 Color Misregistration Defect Sample

Cause

Failure of the ROS or IBT "walking" from rear to front or front to rear.

Mechanical problem in the IBT Assembly.

Corrective Action

Go to the IQ8 RAP.

Debris-Centered Deletions

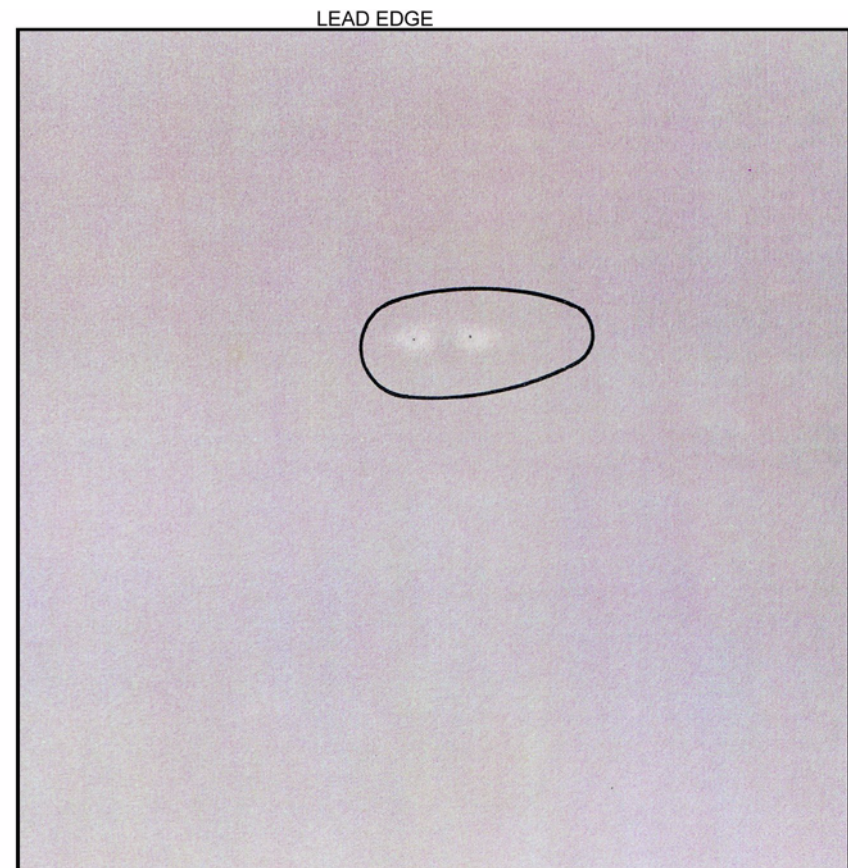


Figure 1 DCD Defect Sample

Cause

Toner agglomerates cause deletions in the areas surrounding them during transfer.

Corrective Action

Go to the IQ7 RAP.

Deletions

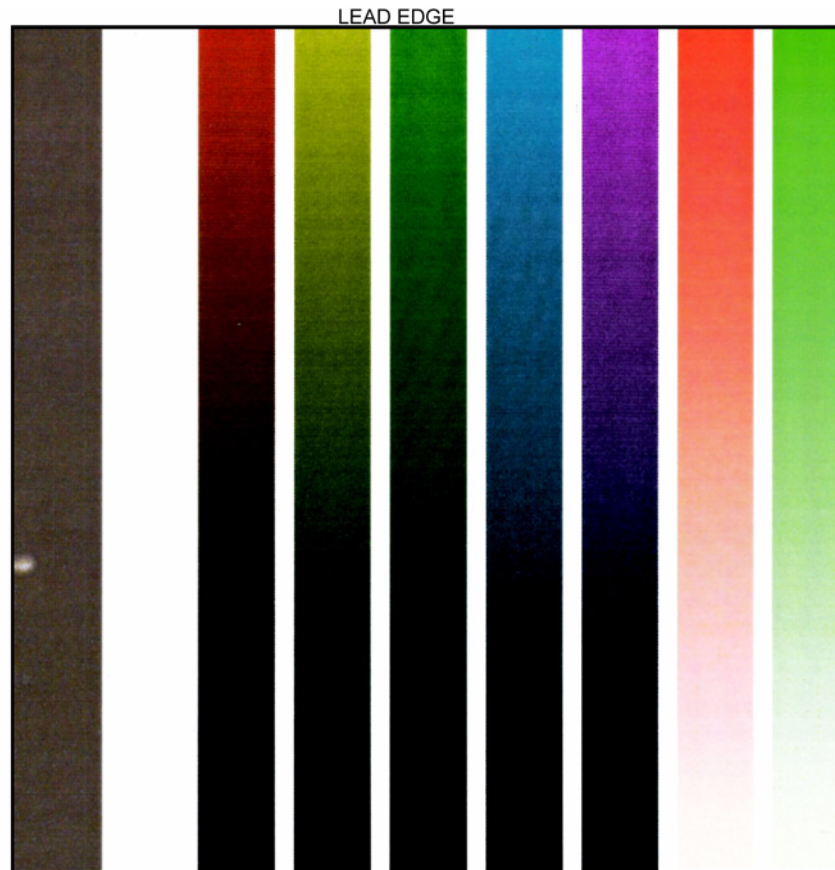


Figure 1 Deletions Defect Sample

Cause

Defective IBT Belt, damp paper, uneven charge.

Corrective Action

Go to the IQ7 RAP.

High Frequency Bands



Figure 1 High Freq. Bands Defect Sample

Cause

Faulty ROS Assembly or Photoreceptor/Developer Housing gear or bearing problem.

Corrective Action

Go to the IQ14 RAP.

Irregular Process Direction Streak

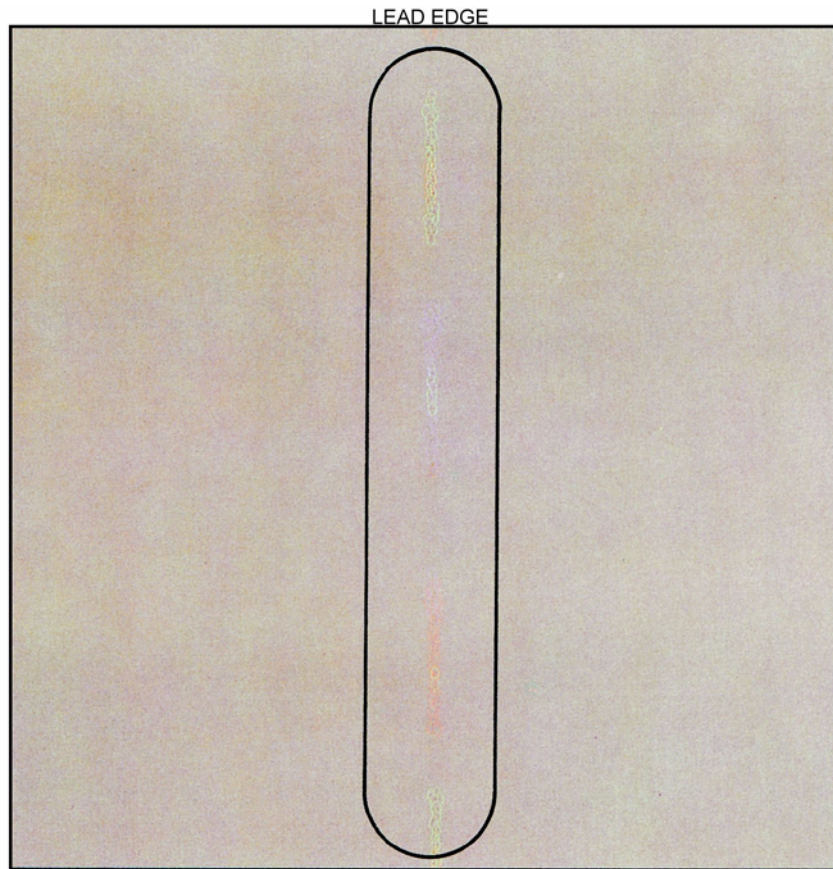


Figure 1 Streak Defect Sample

Cause

Clog in Developer Housing Trim Bar, malfunction of Belt Cleaner, contaminated ROS window.

Corrective Action

Go to the IQ12 RAP.

Low Image Density

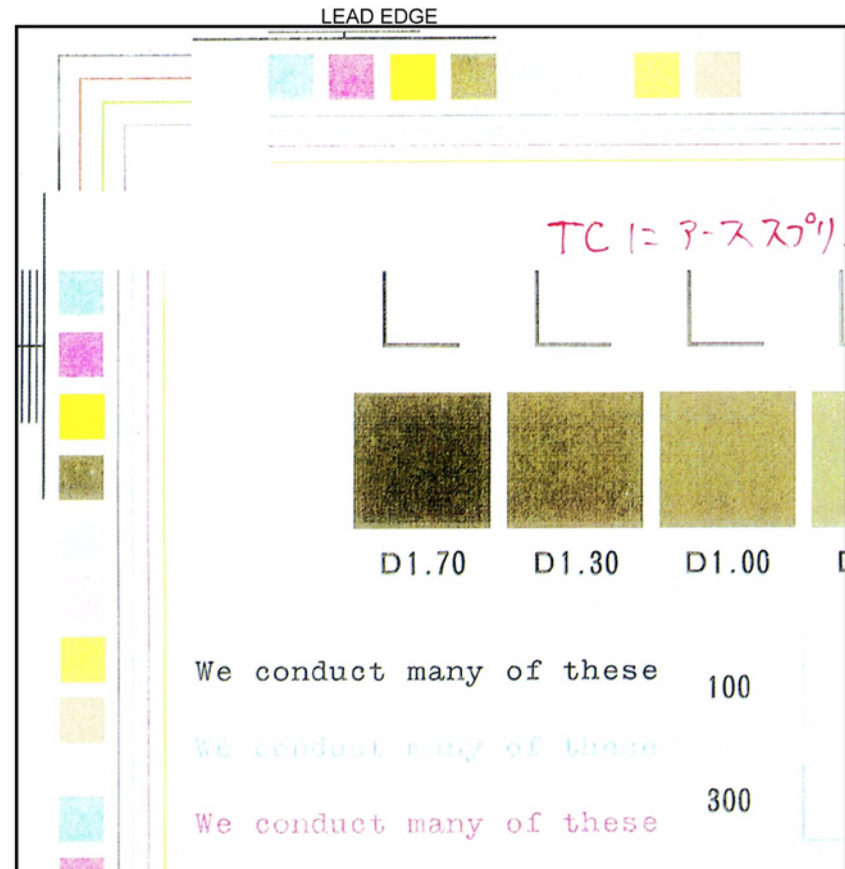


Figure 1 Low Density Defect Sample

Cause

Incorrect electrostatics, defective ADC Sensor, low toner concentration or out-of-specification paper (especially low quality or heavy weight paper).

Corrective Action

Go to the IQ3 RAP.

Moire



Figure 1 Moire Defect Sample

Cause

The halftone screen used on the original interferes with the halftone screen used by the copier.

Corrective Action

Go to the IQ2 RAP.

Mottle

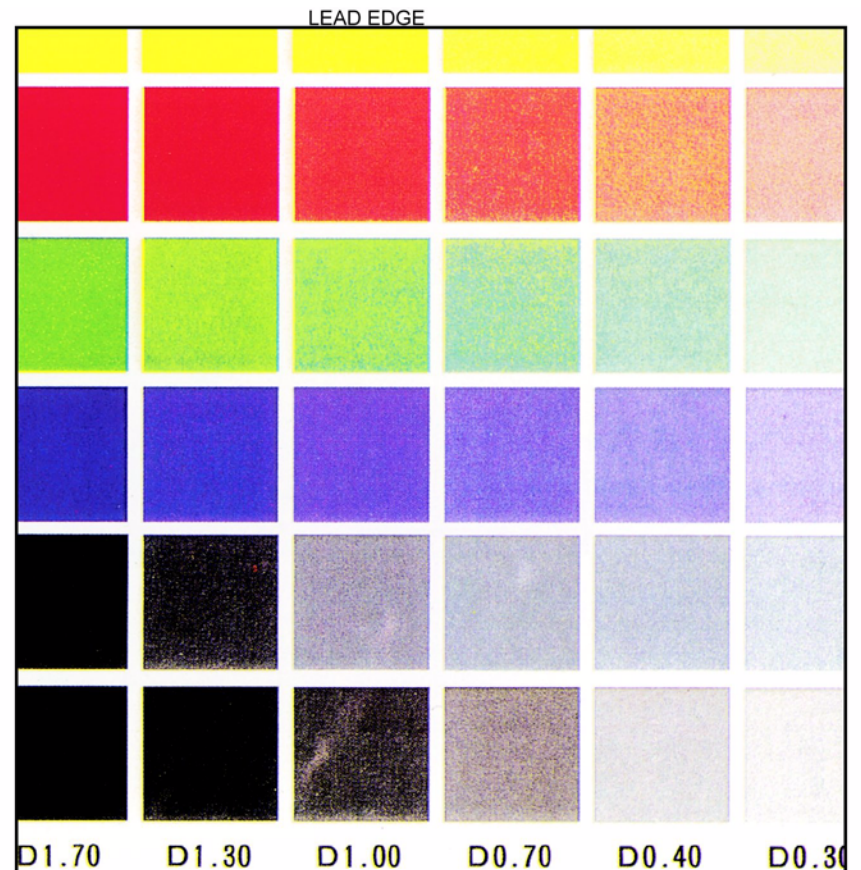


Figure 1 Mottle Defect Sample

Cause

Damp or low quality paper, aged developer, low toner concentration

Corrective Action

Go to the IQ15 RAP.

Newton Rings



Figure 1 Newton Rings Defect Sample

Cause

Highly reflective surfaces on a glossy photograph.

Corrective Action

Perform the following:

- Clean the Document Glass
- Place a transparency between the document and the glass

Regular (Repeating) Bands, Streaks, Spots, or Smears

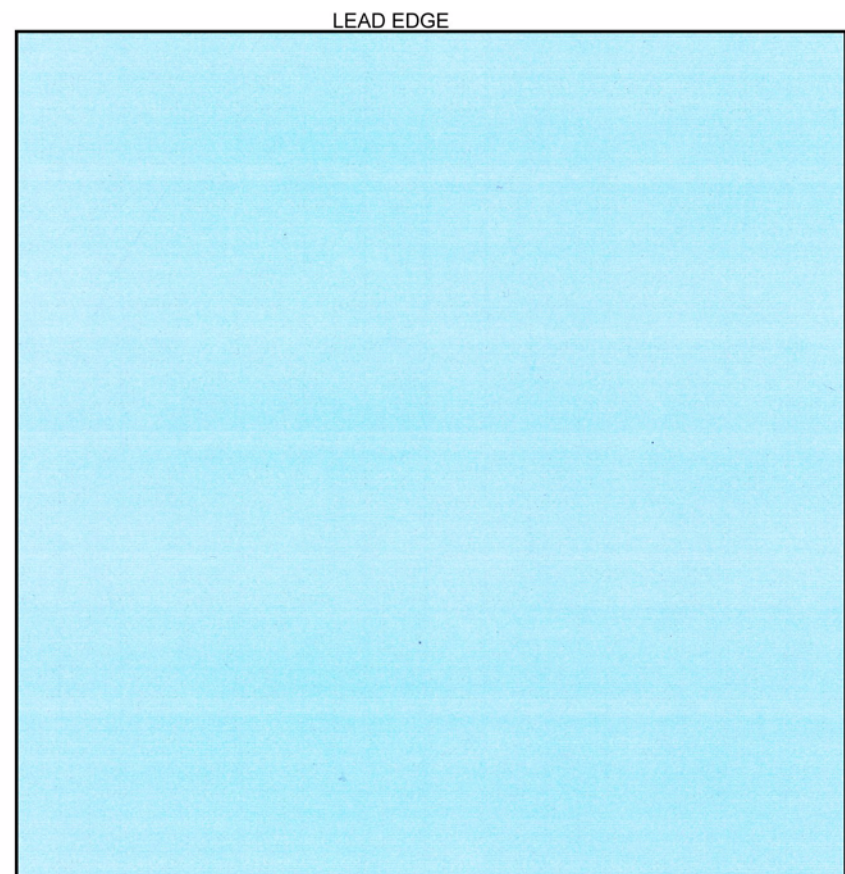


Figure 1 Repeating Defects Sample Image

Cause

Damage, density variation, or deletions caused by rotating component. Spacing equal to effective circumference of part.

Corrective Action

Go to the IQ14 RAP.

Residual Image

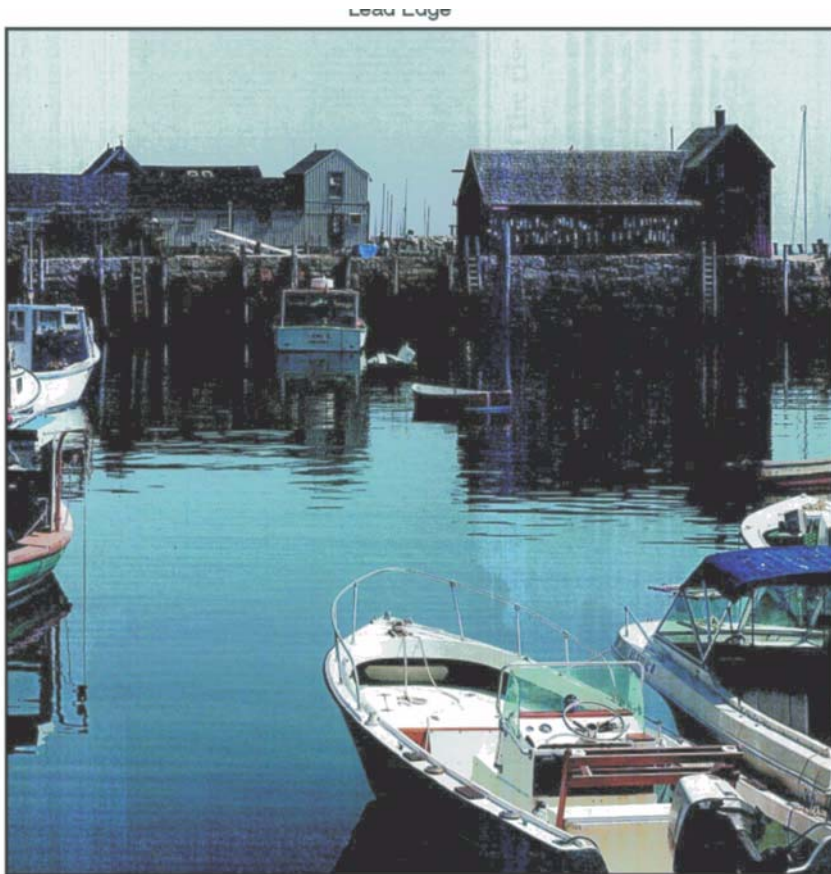


Figure 1 Residual Image Defect Sample

Cause

Improper IBT cleaning and/or defective IBT Belt.

Corrective Action

Go to the IQ5 RAP.

Streak Deletion in Process Direction



Figure 1 Streak Deletion Defect Sample

Cause

Contamination of ROS window, damage to or contact with Transfer Belt or Drum Cartridge

Corrective Action

Go to the IQ12 RAP.

Wrinkled Image

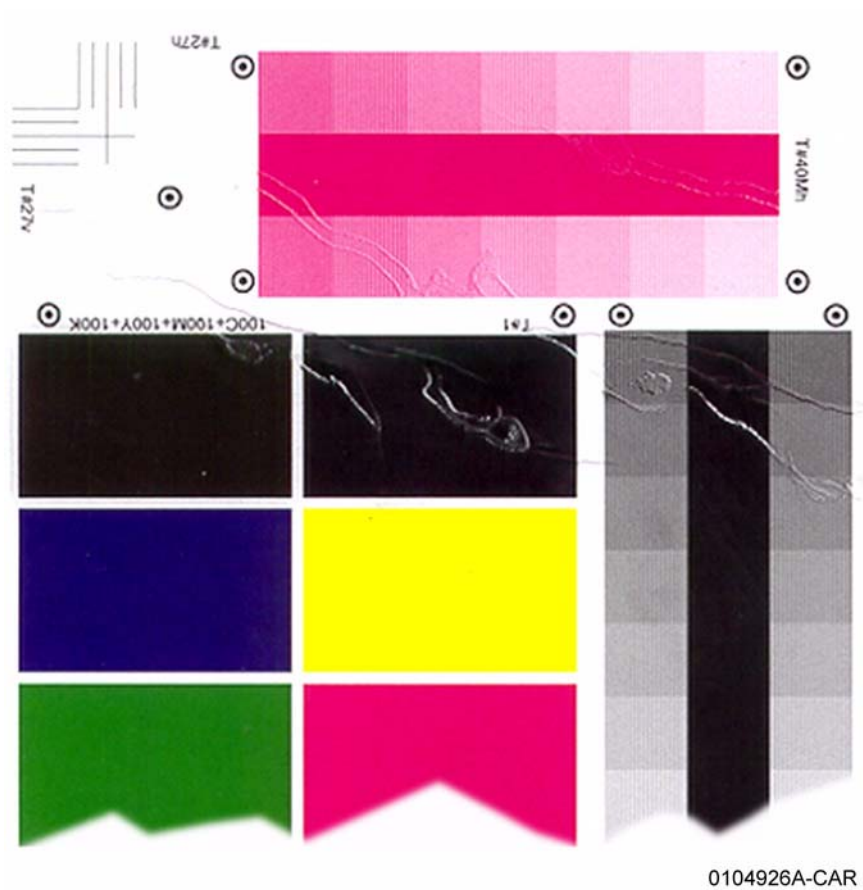


Figure 1 Wrinkled Image Defect Sample

Cause

Fuser "tenting" of paper

Corrective Action

Go to the IQ4 RAP.

Worm Defect

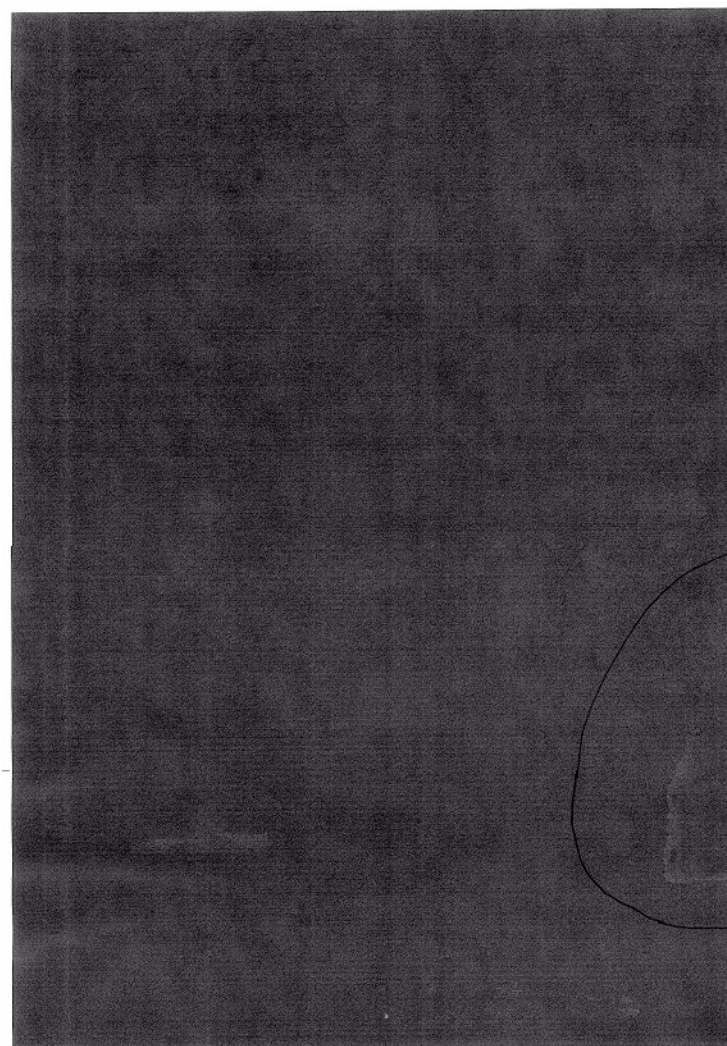


Figure 1 Worm Image Defect Sample (VA-001)

Cause

Worm may appear in the process direction feeding from the MSI Tray.

Corrective Action

Feed from a different tray to eliminate the worm problem.

Auger Marks Defect (Black)

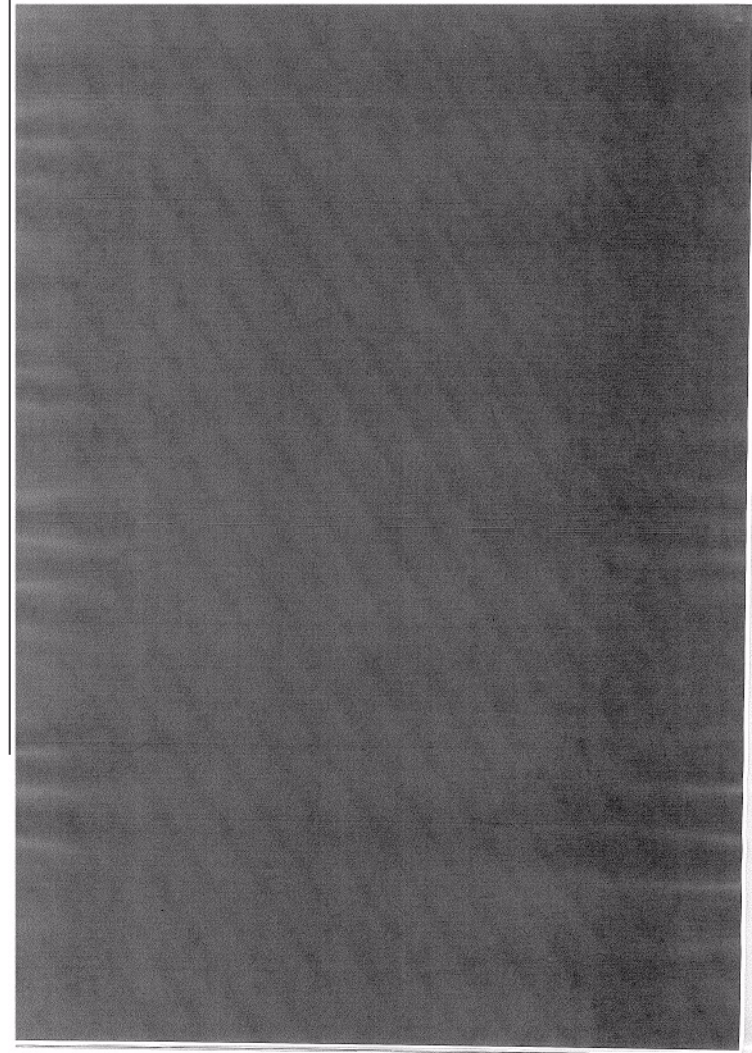


Figure 1 Auger Marks Image Defect Sample (VA-002)

Cause

Auger marks may appear on the prints when the amount of toner becomes low in the Developer Unit.

The following conditions increase the defect:

- Monotone image over the whole print with coverage between 40 and 60%.
- High temperature and high humidity.

Corrective Action

If the defect is worse than the defect sample, replace the Developer Unit (PL 5.2).

Auger Marks Defect (Magenta)

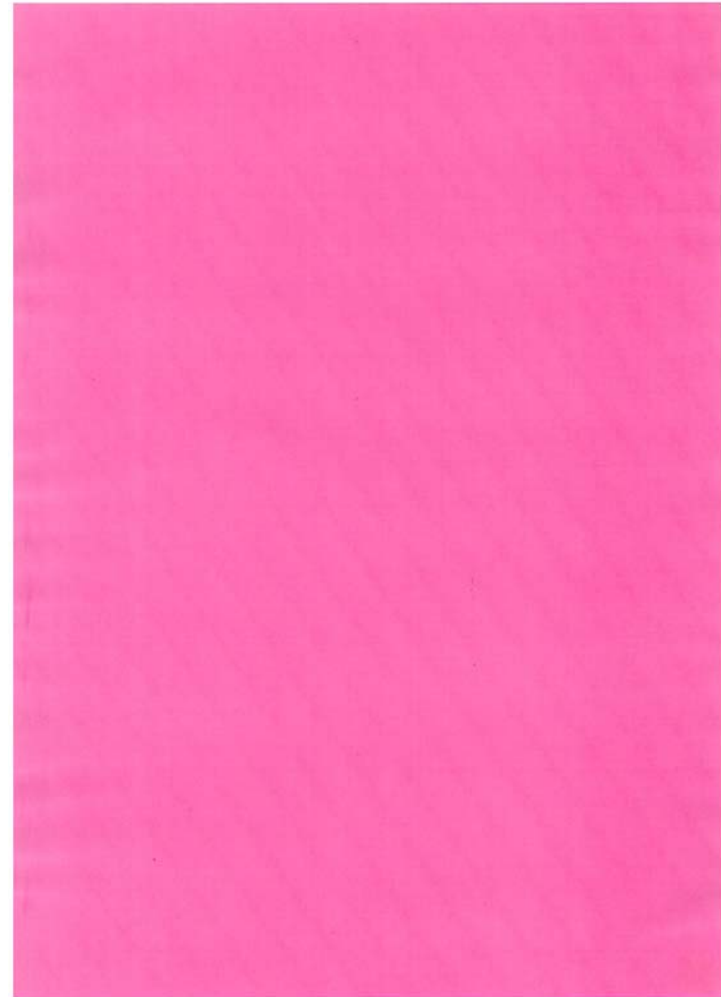


Figure 1 Auger Marks Image Defect Sample (VA-003)

Cause

Auger marks may appear on the prints when the amount of toner becomes low in the Developer Unit.

The following conditions increase the defect:

- Monotone image over the whole print with coverage between 40 and 60%.

- High temperature and high humidity.

Corrective Action

If the defect is worse than the defect sample, replace the Developer Unit (PL 5.2).

59mm Pitch Density Non-Uniformity Defect



Figure 1 59mm Pitch Density Non-Uniformity Defect Sample (VA-004)

Cause

The 59mm Pitch Density Non-Uniformity is on printed sheets printed in the Half-Tone image of the secondary color. The defect is more visible on the first print job when the machine is left in a high temperature and high humidity environment overnight or longer.

Corrective Action

If the defect is worse than the defect sample, replace the Developer Unit (PL 5.2).

201mm Streaks from the lead edge Defect

Cause

The 201mm streaks appear in the same position of the black images, 201 mm from the lead edge.

Corrective Action

Replace the 2nd BTR (PL 2.7).

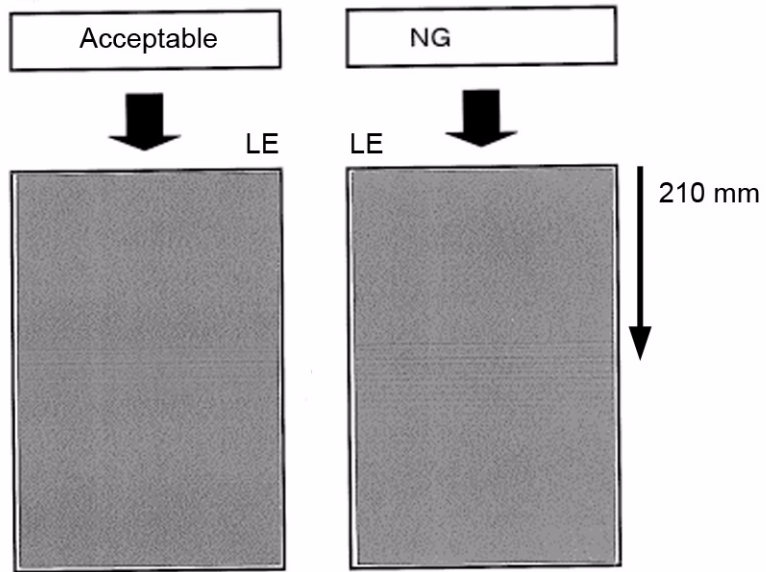


Figure 1 201mm Streaks Defect Sample (VA-005)

M, C, K Banding Defect

Cause

This defect is caused by one of several components:

- Developer Assembly
- IBT Assembly
- Fuser Assembly
- ROS Assembly

Corrective Action

.Replace the above components in order, one at a time.

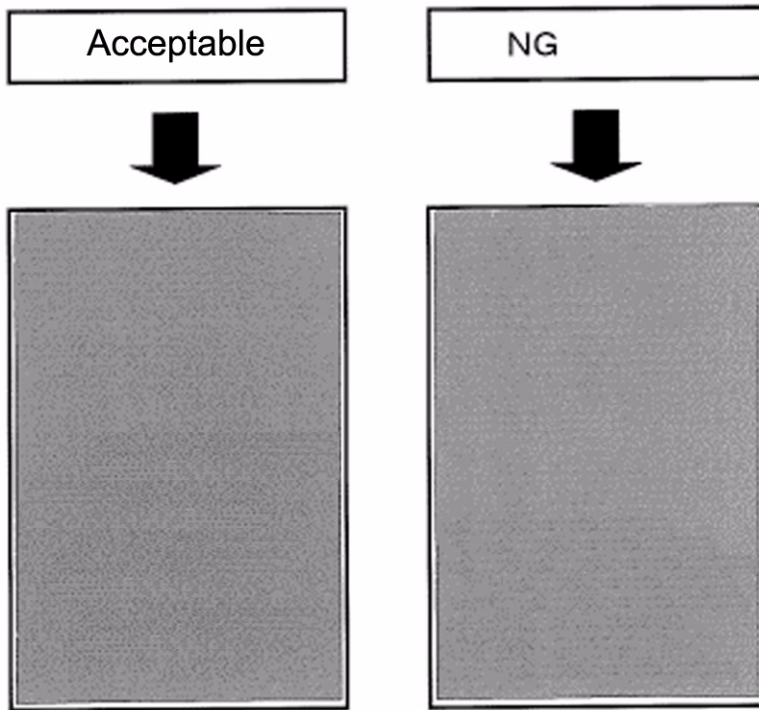


Figure 1 M, C, K Banding Defect Sample (VA-006)

103mm Streaks from the lead edge Defect

Cause

The 103mm streaks appear in the same position of the black images, 201 mm from the lead edge.

Corrective Action

Replace the 2nd BTR (PL 2.7).

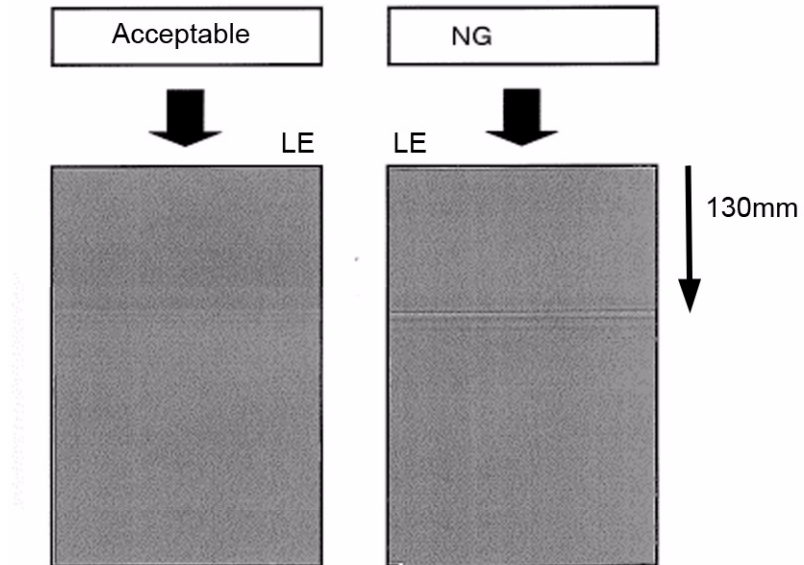


Figure 1 103mm Streaks Defect Sample (VA-008)

Scratches on Transparency Defect

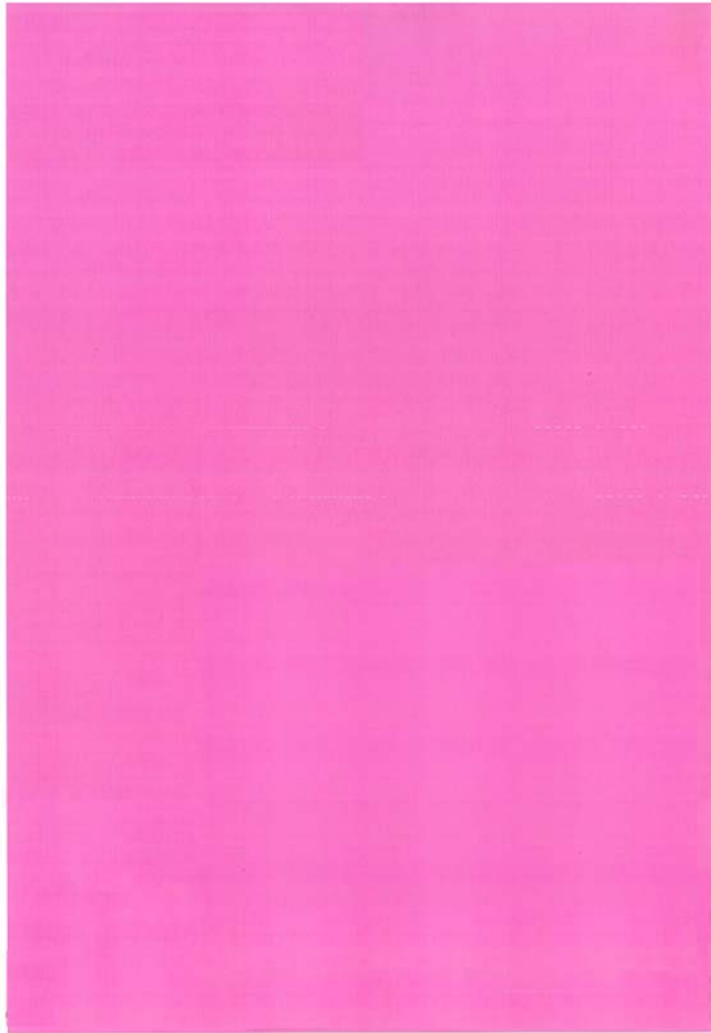


Figure 1 Scratches on Transparency Defect Sample (VA-009)

Cause

Minor scratches run along the process direction on 8.5 x 11 LEF or A4 LEF of the transparency.

Corrective Action

Replace the Fuser (PL 7.1).

Toner Soft Blocking Defect

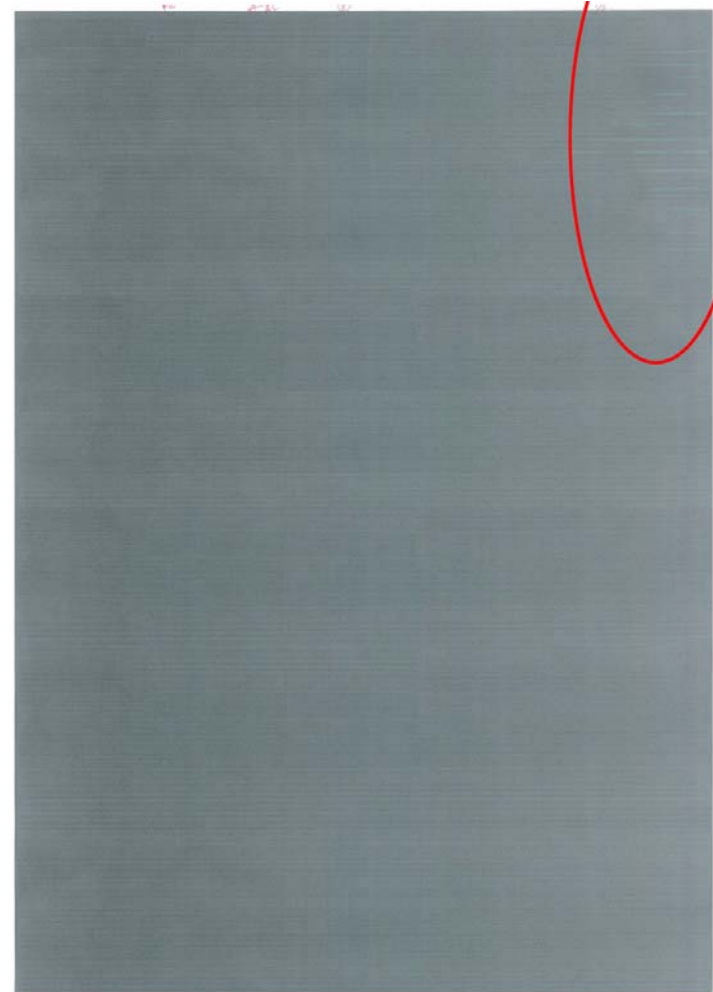


Figure 1 Toner Soft Blocking Defect Sample (VA-0010)

Cause

Toner soft blocking appears as streaks in the process direction.

Corrective Action

Shake the toner Cartridge. If the problem continues, replace the Toner Cartridge (PL 5.2).

Toner Dam Ghosting Defect

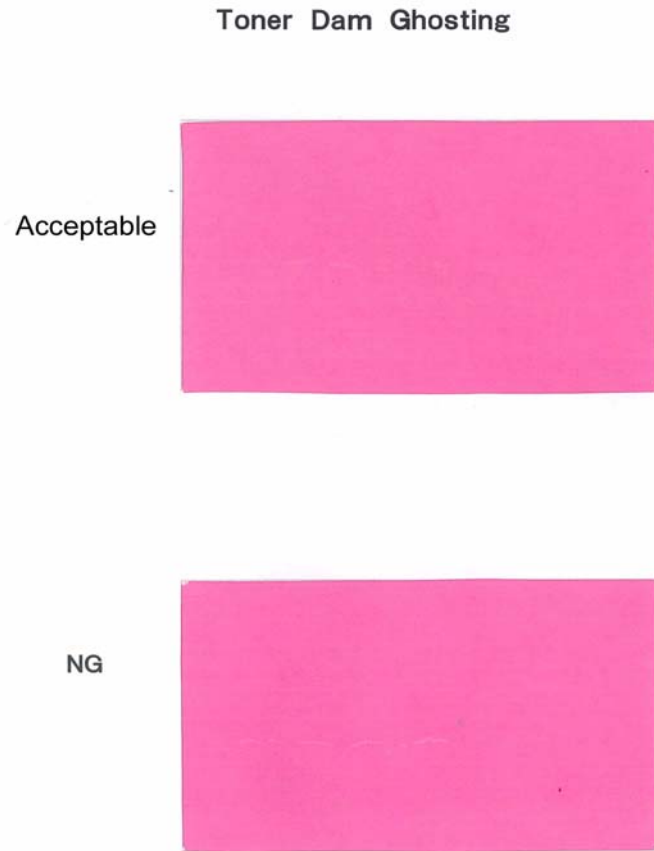


Figure 1 Toner Dam Ghosting Defect Sample (VA-0011)

Cause

Toner dam ghosting appears as white streaks 105mm from the lead edge. The white streak is more visible in magenta.

Corrective Action

1. Print Test Pattern 59, 40% coverage, Magenta, output 2 or more 11 x 17 sheets.

2. Check whether white spots or streaks appear in the Magenta halftone on the 2nd and later outputs.
3. Tone Down the Developer ADJ 9.1.0, if the BKG or high solid density occurs. (Use Test Pattern 52)
4. Check NVM 753-552. The stored value is 0-9. (Table 1)

Table 1

NVM value stored in 753-552	NVM address to access	Default Value	Limited Value
0	153-542	0	-20
1	153-543	-20	-40
2	153-544	-20	-40
3	153-545	-10	-30
4	153-546	0	-20
5	153-547	0	-20
6	153-548	0	-20
7	153-549	0	-20
8	153-550	0	-20
9	153-551	0	-20

5. Change NVM Values by increments of -5. (ex. In the case 753-552 is 5, change 753-547 from 0 to -5 first)
6. Check the print image. If the defect is still present, increment the NVM value again.

CAUTION

Never increment more than the value listed in the Limited Value column in Table 1.

1. Drives		
REP 1.1.1 Main Drive Assembly	4-3	
REP 1.1.2 Drum Drive Assembly	4-10	
2. Paper Transportation		
REP 2.1.1 Tray 1 Feeder	4-13	
REP 2.3.1 Tray 1 Feed/Nudger/Retard Roll.....	4-15	
REP 2.4.1 Registration Unit	4-17	
REP 2.5.1 Takeaway Roll	4-18	
REP 2.6.2 L/H Upper Cover Unit	4-20	
3. ROS		
REP 3.1.1 ROS Unit.....	4-21	
4. Xerographics/Development		
REP 4.1.1 Developer Housing	4-23	
REP 4.1.2 Toner Cartridge.....	4-26	
REP 4.1.3 Developer Bias Brush	4-27	
REP 4.1.4 Waste Toner Auger.....	4-28	
REP 4.2.1 Developer Motor Assembly.....	4-30	
REP 4.2.2 IBT Module	4-31	
REP 4.2.3 Print Drum.....	4-35	
REP 4.2.4 IBT Cleaner.....	4-36	
REP 4.2.5 IBT Belt	4-37	
REP 4.2.6 Rotary Drive Motor.....	4-43	
REP 4.2.7 Developer Material.....	4-44	
REP 4.2.8 2nd BTR Contact Arms	4-48	
REP 4.3.1 Sensor Bar	4-50	
5. Fuser		
REP 5.1.1 Fuser Unit	4-53	
6. Exit		
REP 6.1.1 Exit2 + OCT2	4-55	
7. MPT		
REP 7.1.1 MSI Assembly.....	4-57	
REP 7.2.1 MSI Feed Roll/Retard Pad.....	4-59	
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REP 9.1.1 MCU PWB	4-61	
REP 9.1.2 MCU PWB EPROM	4-63	
REP 9.2.1 ESS PWB	4-64	
REP 9.2.2 ESS PWB EPROM	4-69	
REP 9.2.3 Power Supply PWB	4-69	
10. Covers		
REP 10.1.1 Top Cover Assembly	4-71	
REP 10.2.1 Rear Lower Covers.....	4-72	
REP 10.2.2 Front Inner Cover.....	4-74	
REP 10.2.3 Right Side Cover.....	4-75	
REP 10.3.1 Rear Fan.....	4-76	
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		REP 11.1.1 Platen Cushion..... 4-77
		REP 11.1.2 Control Panel Assembly..... 4-78
		REP 11.3.1 Platen Glass..... 4-78
		REP 11.3.2 IIT/IPS PWB..... 4-79
		REP 11.4.1 Lens Kit Assembly
		REP 11.5.1 Carriage Cable..... 4-84
		REP 11.5.2 Carriage Motor Assembly
		REP 11.6.1 Exposure Lamp..... 4-86
		REP 11.6.2 Lamp Wire Harness
		REP 11.6.1 Exposure Lamp..... 4-92
		REP 11.6.2 Lamp Wire Harness
		REP 11.6.1 Exposure Lamp..... 4-96
		REP 11.6.2 Lamp Wire Harness
		REP 11.6.1 Exposure Lamp..... 4-97
		REP 11.6.2 Lamp Wire Harness
12. Tray Module - 2T		
REP 12.1.1 Tray 2 Feeder (2TM).....	4-101	
REP 12.1.2 Tray 3 Feeder (2TM).....	4-104	
REP 12.3.1 Feed/Retard/Nudger Roll (2TM)	4-107	
REP 12.6.1 2TM PWB.....	4-108	
13. Tray Module - TT		
REP 13.1.1 Tray 2 Assembly (TTM)	4-111	
REP 13.1.2 Tray 3 Assembly (TTM)	4-112	
REP 13.3.1 Front/Rear Tray Cable (TTM)	4-113	
REP 13.4.1 Tray 3 Feeder (TTM).....	4-114	
REP 13.5.1 Tray 2 Feeder (TTM).....	4-117	
REP 13.6.1 Feed/Retard/Nudger Roll (TTM)	4-119	
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REP 15.3.3 Right Counter Balance.....	4-134	
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ADJ 15.1.5 DADF Height Adjustment.....	4-225		
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REP 1.1.1 Main Drive Assembly

Parts List on PL 1.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the Power Cord.

NOTE: Do not cut cable ties to remove. Cable ties are designed to be disconnected from the frame and reinstalled.

2. Remove the Rear Lower Covers. (REP 10.2.1)
3. Remove the MCU PWB Chassis (REP 9.1.1)
4. Remove the support bracket. (Figure 1)

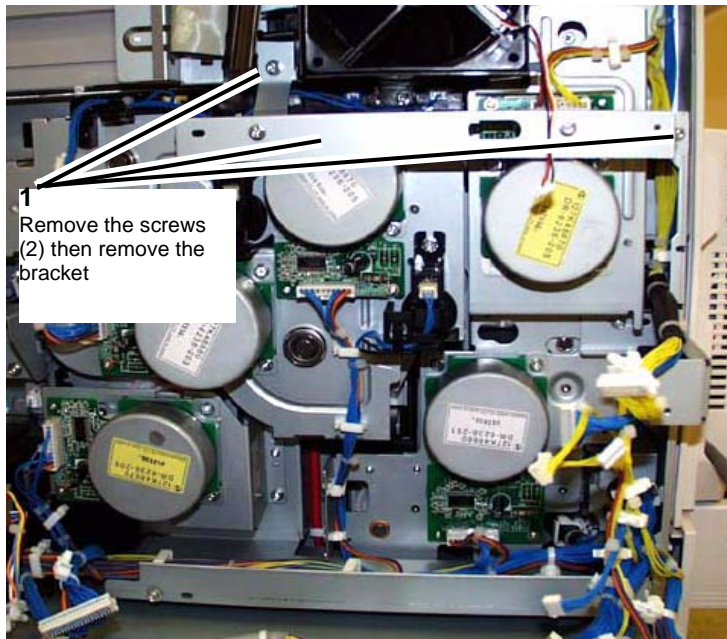


Figure 1 Removing the support bracket

5. Disconnect the connectors on the Main Drive Assembly and the Drum Drive Assembly. (Figure 2)

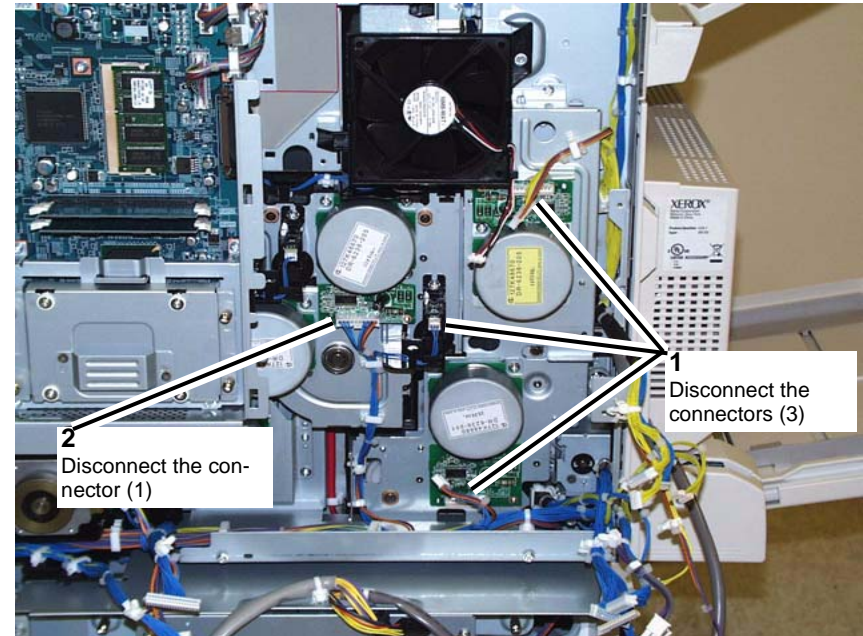


Figure 2 Disconnecting the connectors (4)

6. Remove the cable harnesses from the harness clamps and remove the cable ties from the frame. (Figure 3)

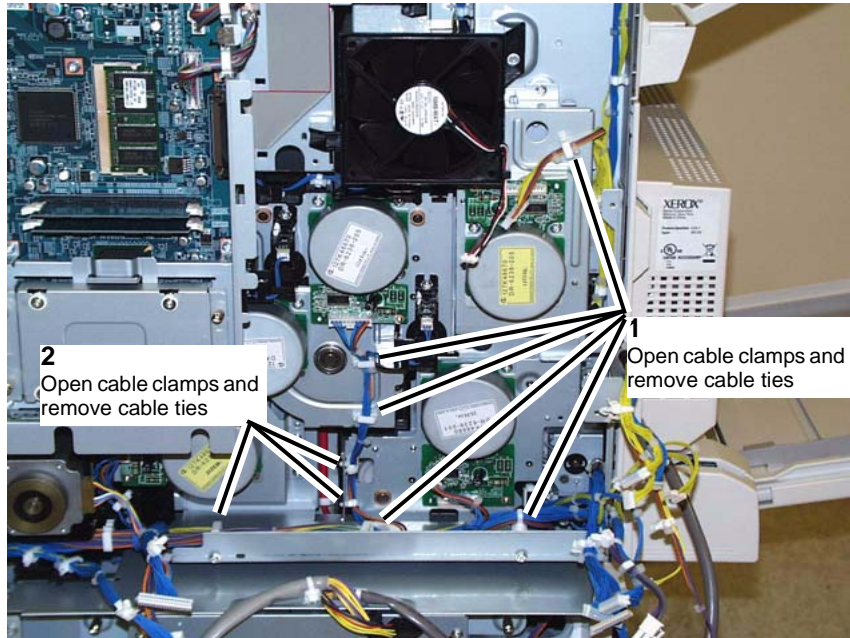


Figure 3 Disconnecting the cable ties and opening cable clamps

7. Remove the lower support bracket. (Figure 4)

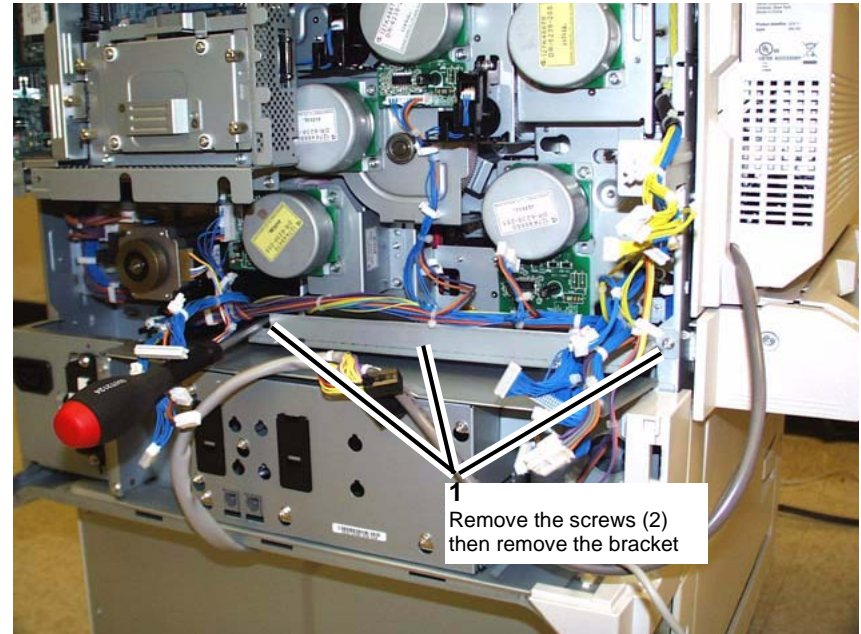


Figure 4 Removing the lower bracket

8. Open the Left Side Upper Cover and remove the Fuser Assembly. (Figure 5)

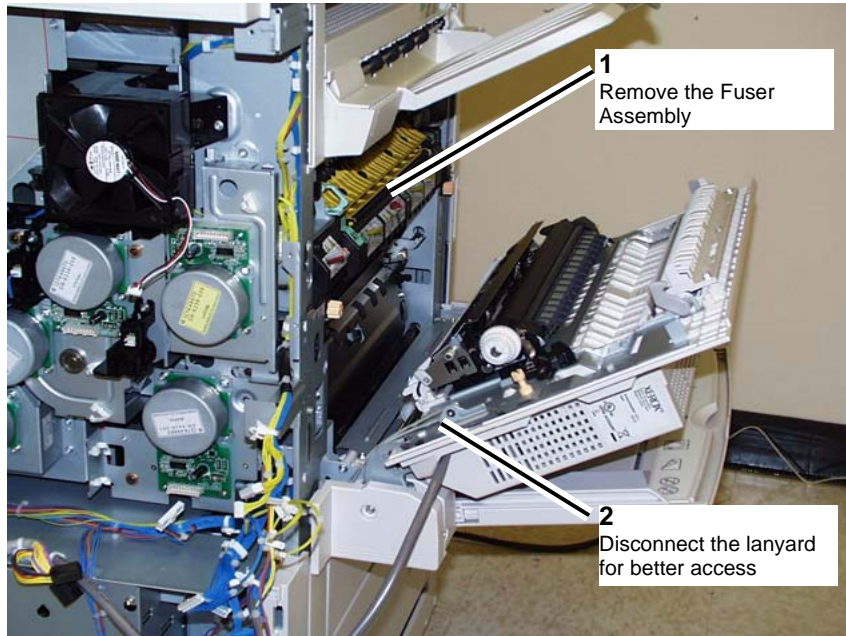


Figure 5 Removing the Fuser Assembly

9. Remove the Drive Belt from the Pulley. (Figure 6)

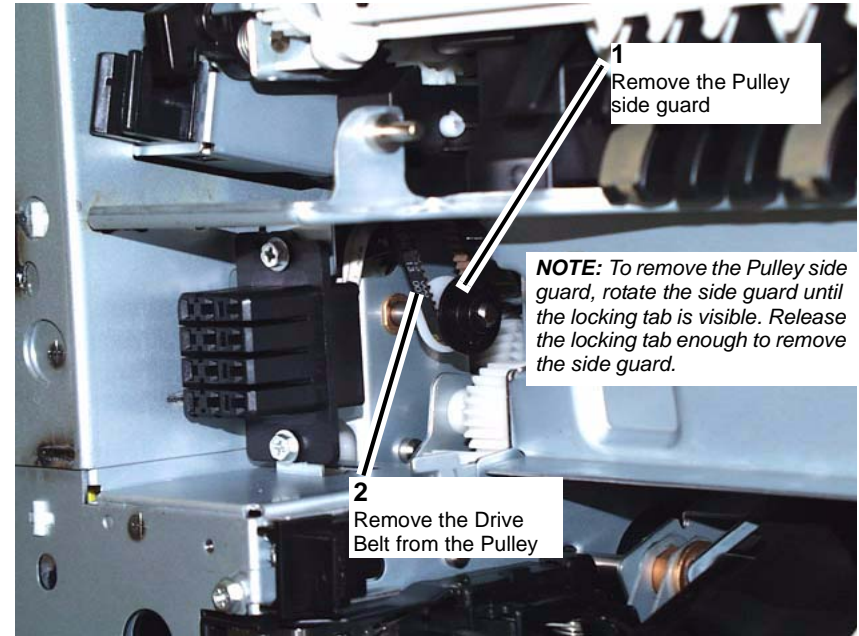


Figure 6 Disengaging the Drive Belt

10. Move the bracket to the left. (Figure 7)

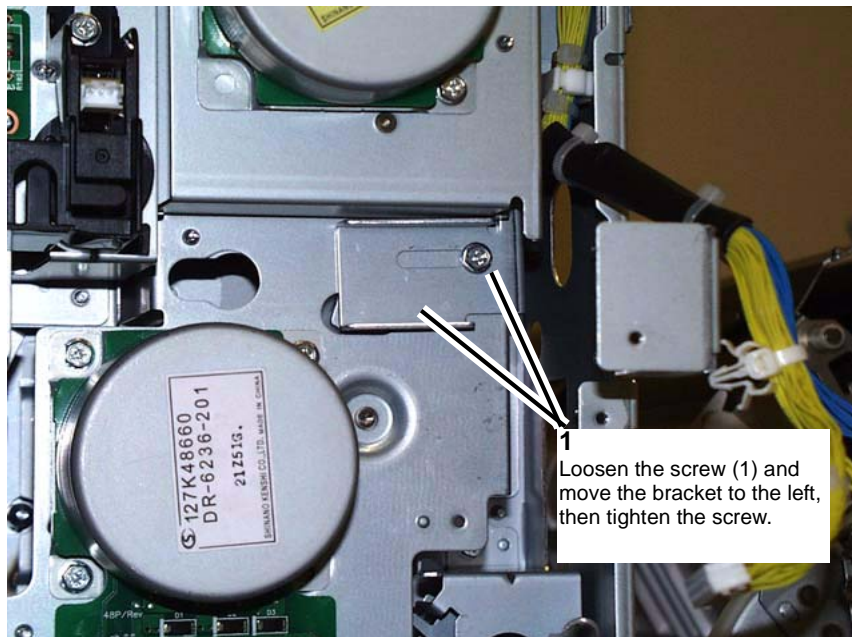


Figure 7 Moving the bracket to the left

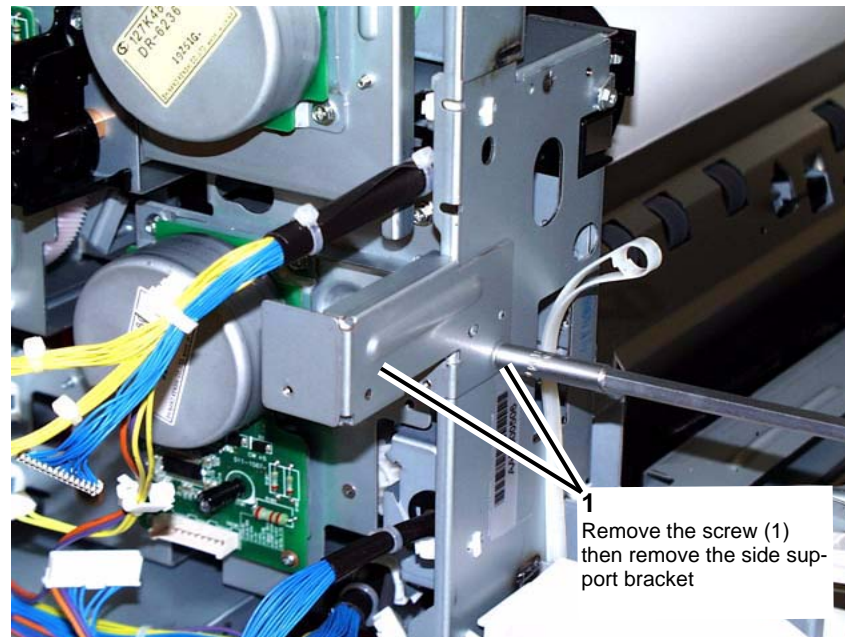


Figure 8 Removing the side support bracket

11. Remove the side support bracket. (Figure 8)

12. Remove the Clutch bracket. (Figure 9)

NOTE: When removing the Clutch Bracket, be careful to recover the washer from between the Clutch Bracket and the Clutch shaft.

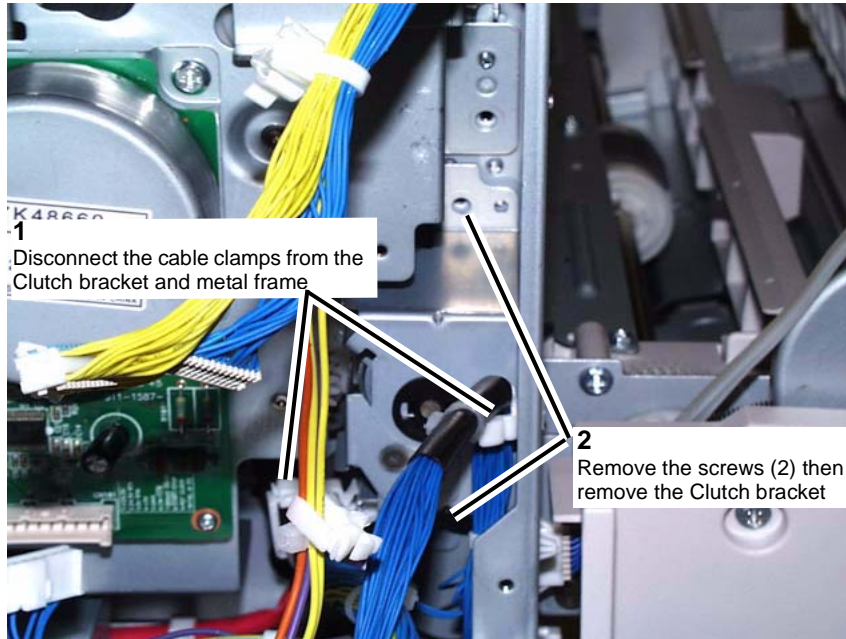


Figure 9 Removing the Clutch bracket

NOTE: Removing the (6) screws is shown in two steps in the following two figures.

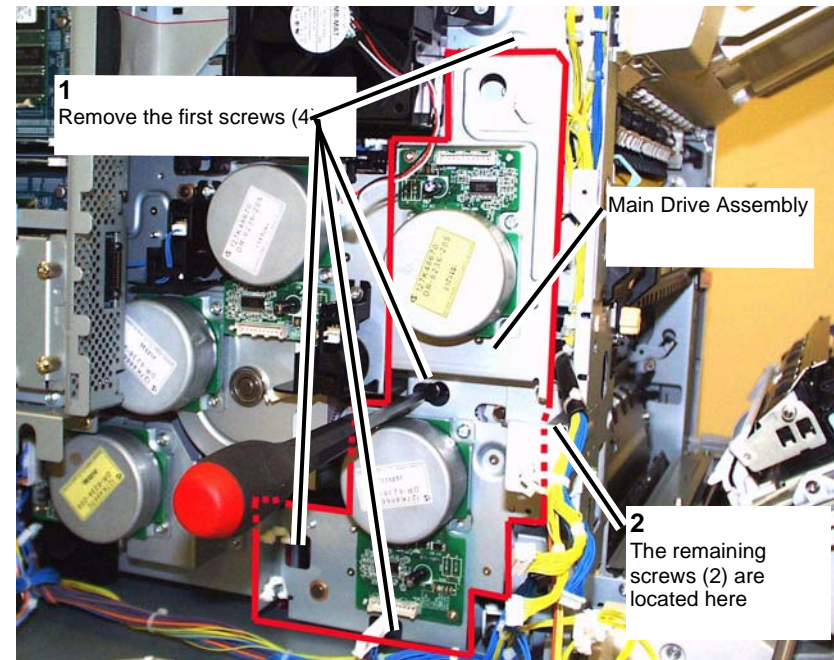


Figure 10 Removing the screws (4) first

13. Remove the screw (6) from the Main Drive Assembly. (Figure 10, Figure 11)

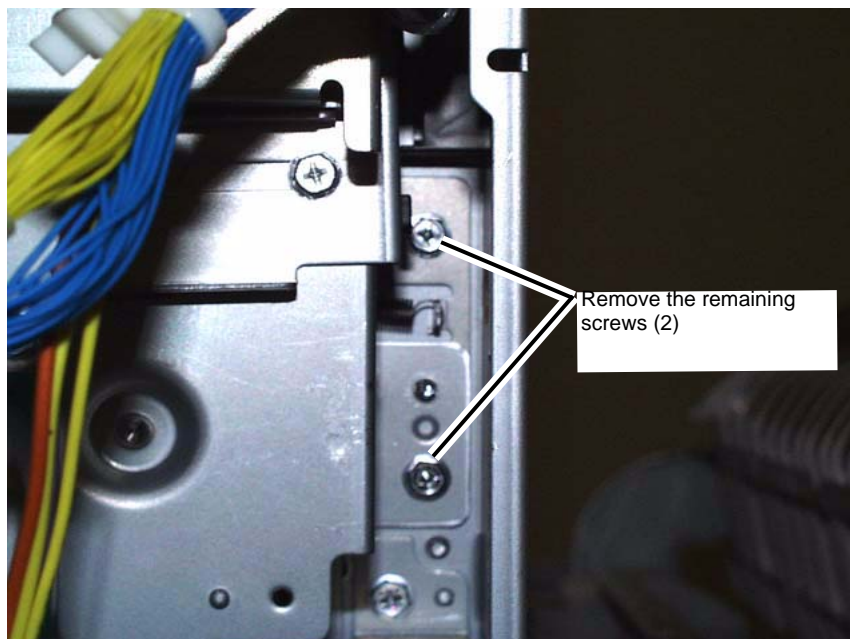


Figure 11 Removing the remaining (2) screws

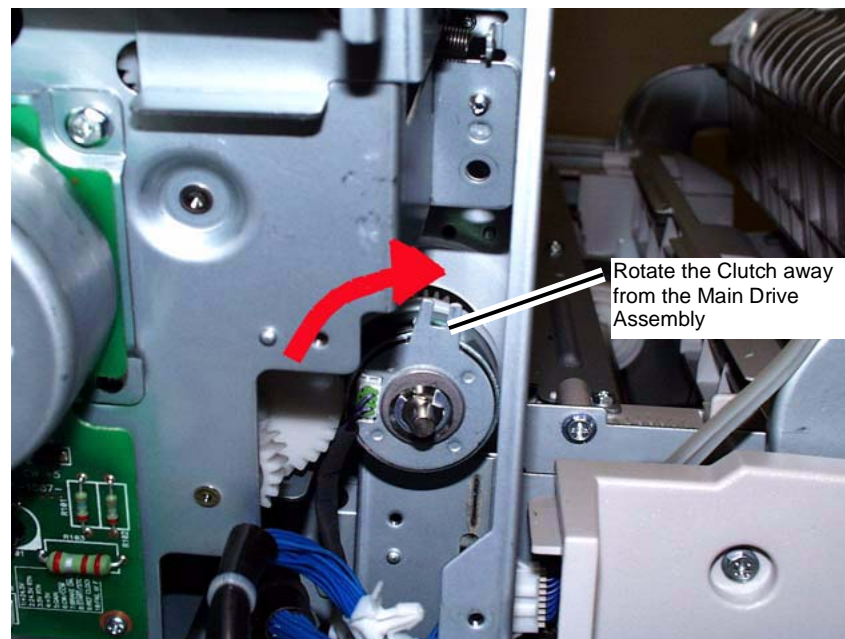


Figure 12 Preparing to remove the Main Drive Assembly

14. Rotate the Clutch clockwise to position the Clutch away from the Main Drive Assembly. (Figure 12)

15. Remove the Main Drive Assembly. (Figure 13)

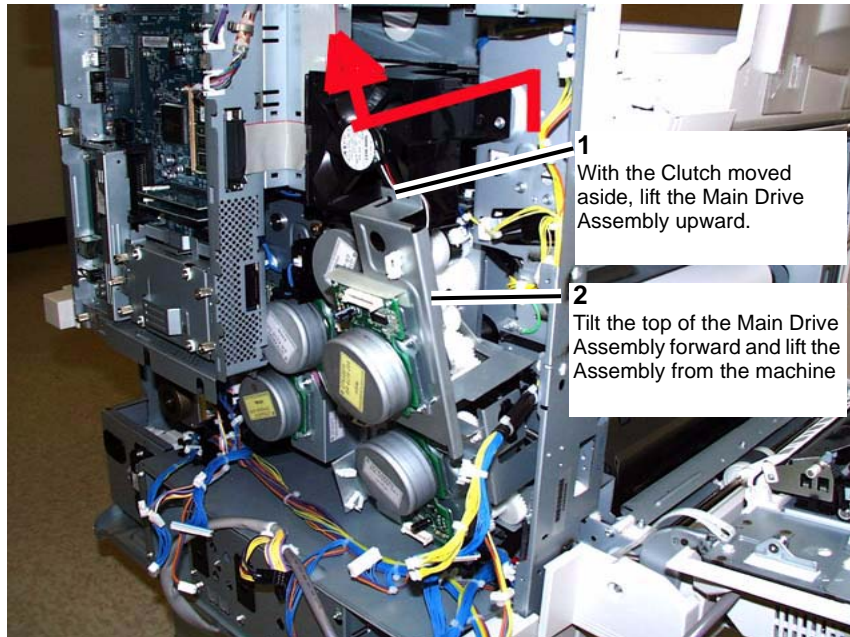


Figure 13 Removing the Main Drive Assembly

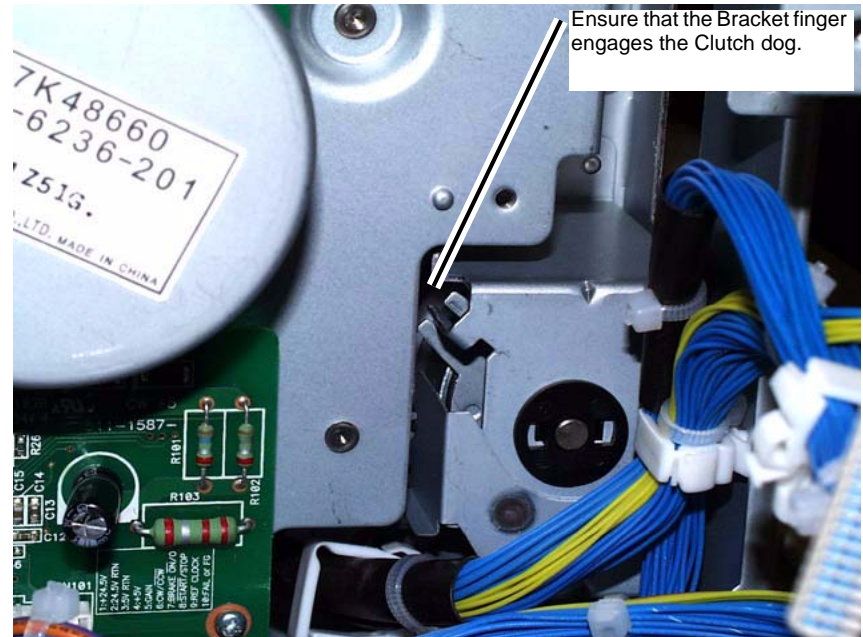


Figure 14 Installing the Clutch Bracket

Replacement

1. To install, carry out the removal steps in reverse order.
2. During installation of the Clutch Bracket, ensure that the bracket finger engages the Clutch dog. (Figure 14)

REP 1.1.2 Drum Drive Assembly

Parts List on PL 1.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the ESS PWB Cover (PL 12.2) the MCU PWB Cover (PL 11.2).
3. Remove the MCU PWB Chassis (REP 9.1.1)
4. Remove the ESS PWB Assembly. (REP 9.2.1)
5. Remove the screws (2) and remove the support bracket. (Figure 1)

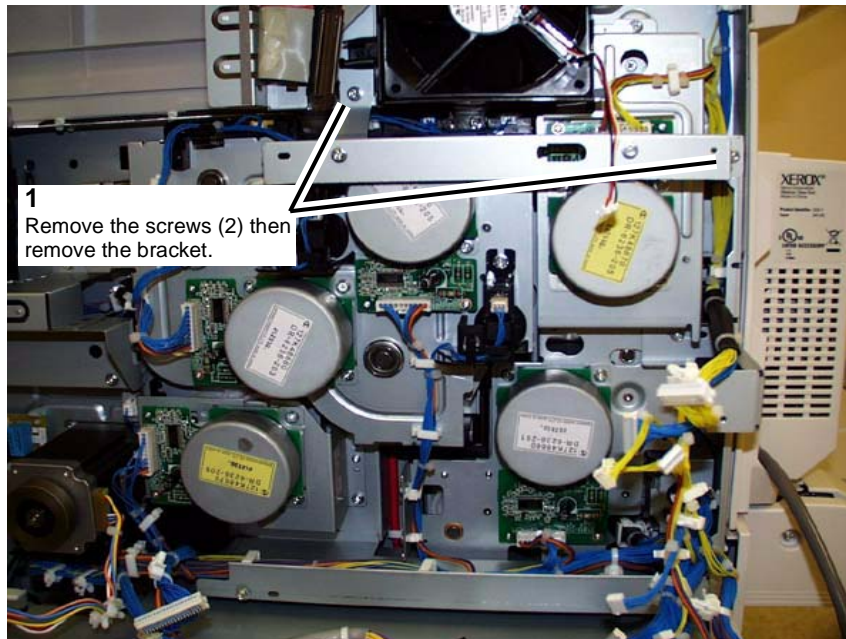


Figure 1 Removing the support bracket

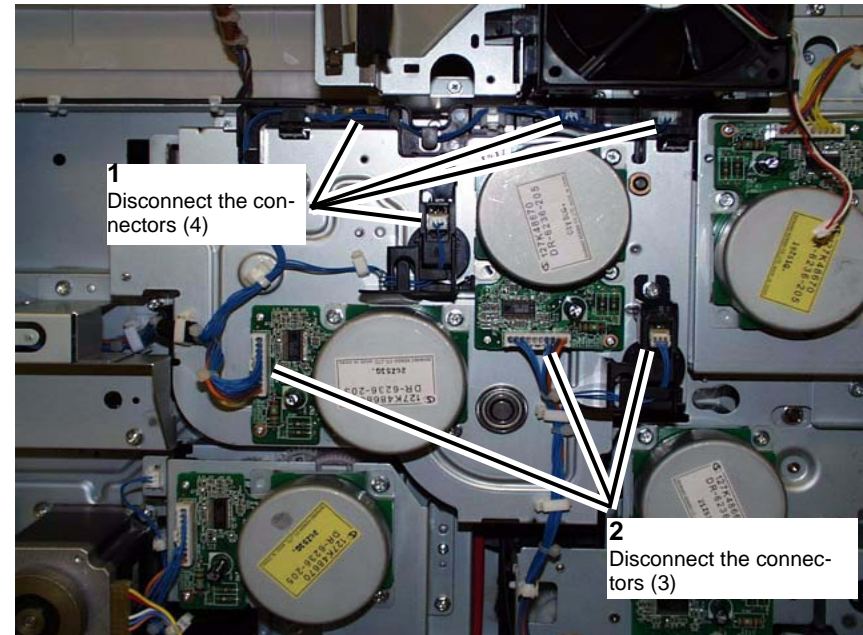


Figure 2 Disconnect the connectors (7)

6. Disconnect the connectors (7) from the Drum Drive Assembly. (Figure 2)

7. Disconnect the cable from the cable clamps or remove the cable ties from the Drum Drive Assembly. (Figure 3)

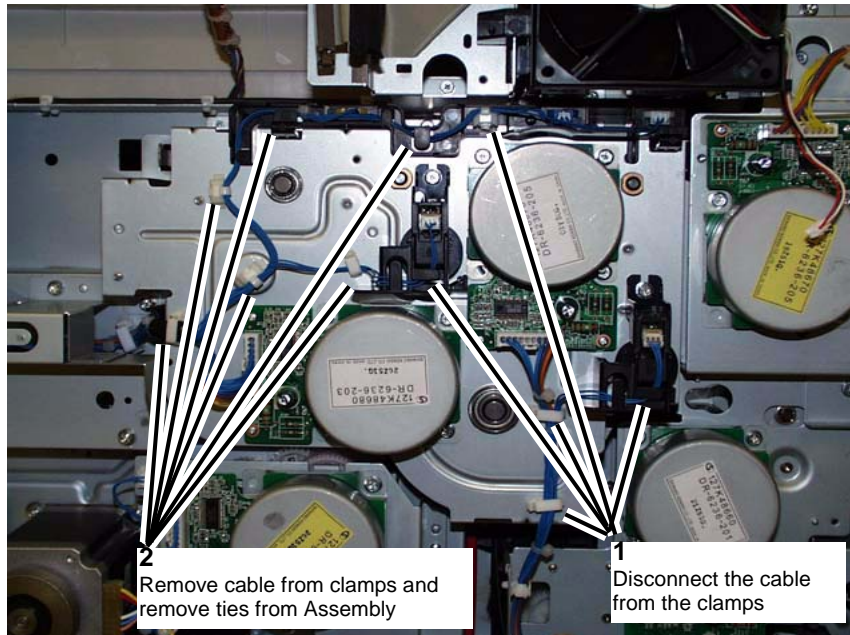


Figure 3 Disconnecting cable clamps or removing cable ties

8. Remove the screws (3) and remove the lower support bracket. (Figure 4)

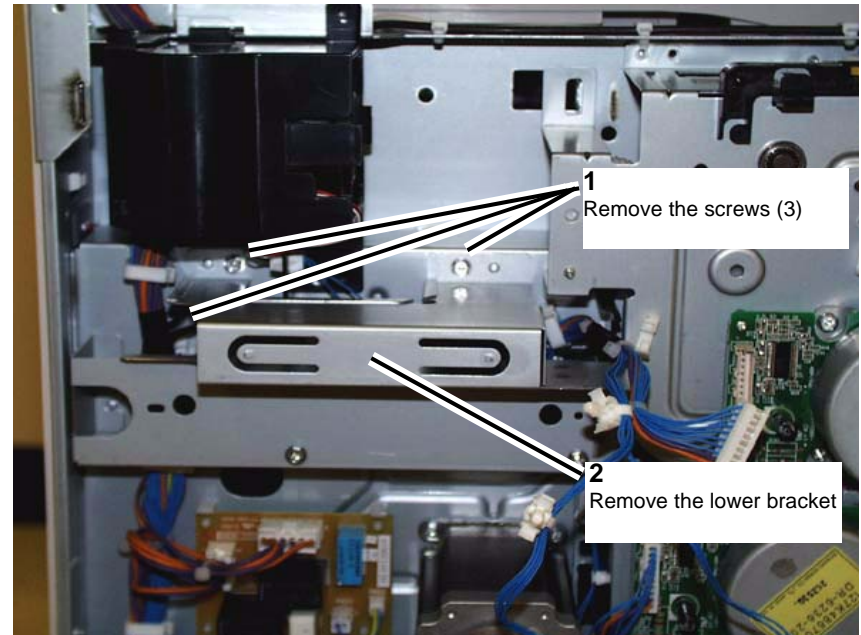


Figure 4 Removing the lower bracket

9. Remove the screws (5). (Figure 5)

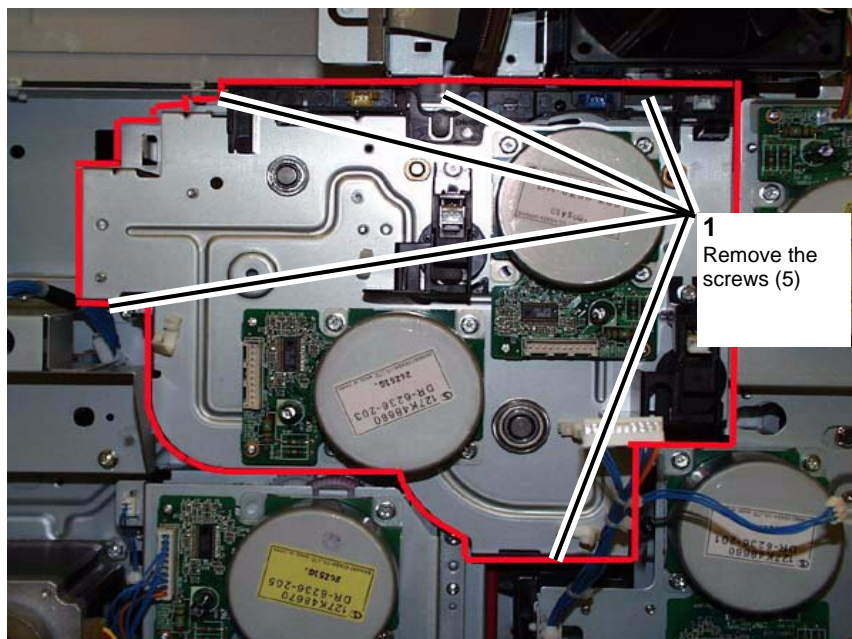


Figure 5 Preparing to remove the Drum Drive Assembly

10. Remove the Drum Drive Assembly.

REP 2.1.1 Tray 1 Feeder

Parts List on PL 2.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the power cord.
2. Remove the MSI Assembly. (REP 7.1.1)
3. Remove the L/H Upper Cover Unit. (REP 2.6.2)
4. Pull out Tray 1.
5. Open the left side Tray 1 Vertical Transport door.
6. Disconnect the connector (1) and remove the wires from the wire clamps (2). (Figure 1)

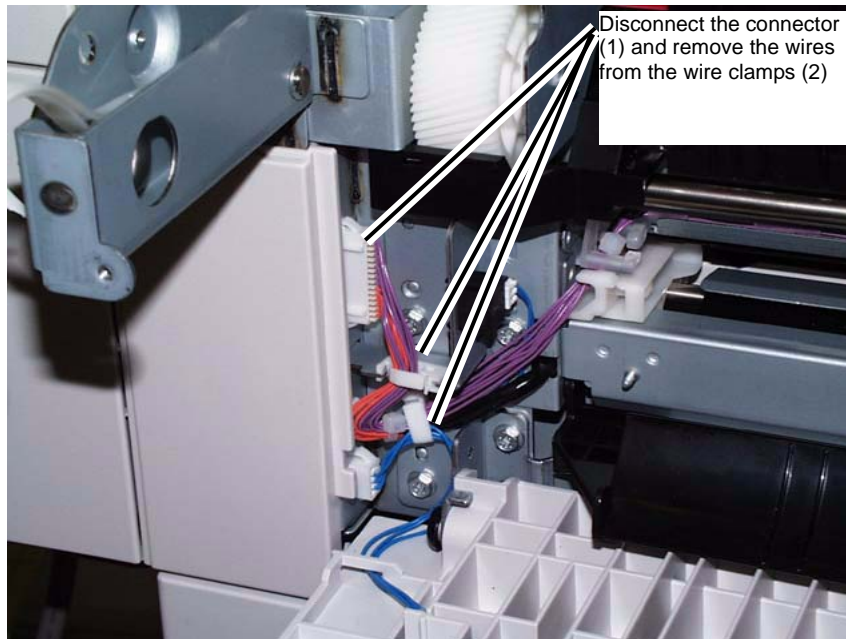


Figure 1 Disconnecting the connector

7. Remove the screw from the sensor bracket and move the sensor bracket aside. (Figure 2)

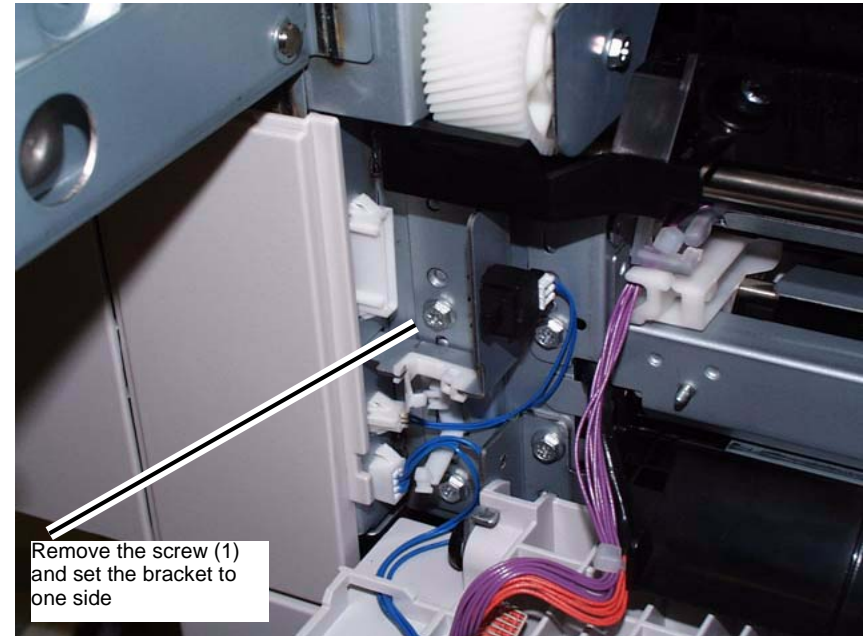


Figure 2 Moving the Sensor Bracket

8. Preparing to remove the Tray 1 Feeder.
 - a. Remove the screws (2). (Figure 3)

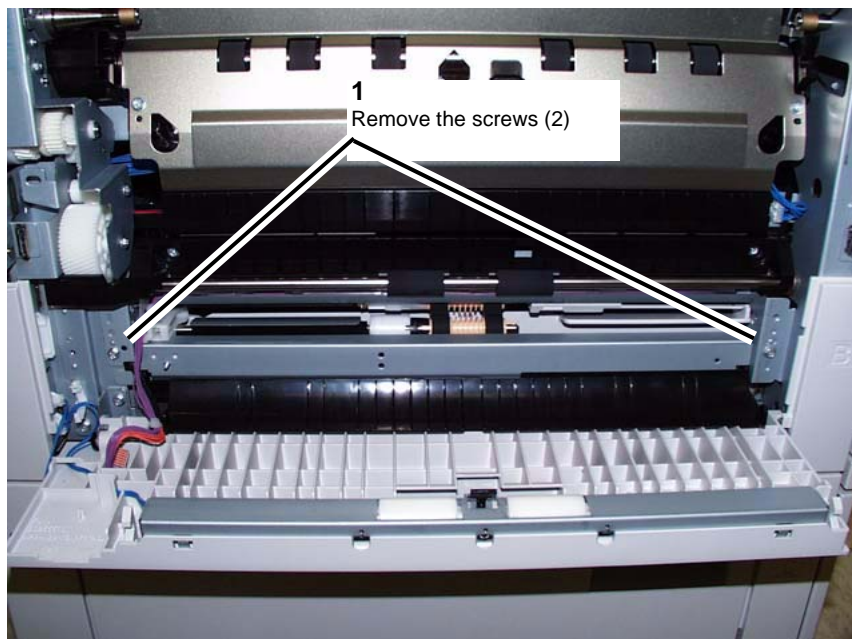


Figure 3 Preparing to remove the Tray 1 Feeder

9. Move the outboard end of the Tray 1 Feeder toward the left of the machine. Remove the Tray 1 Feeder from the machine. (Figure 4)

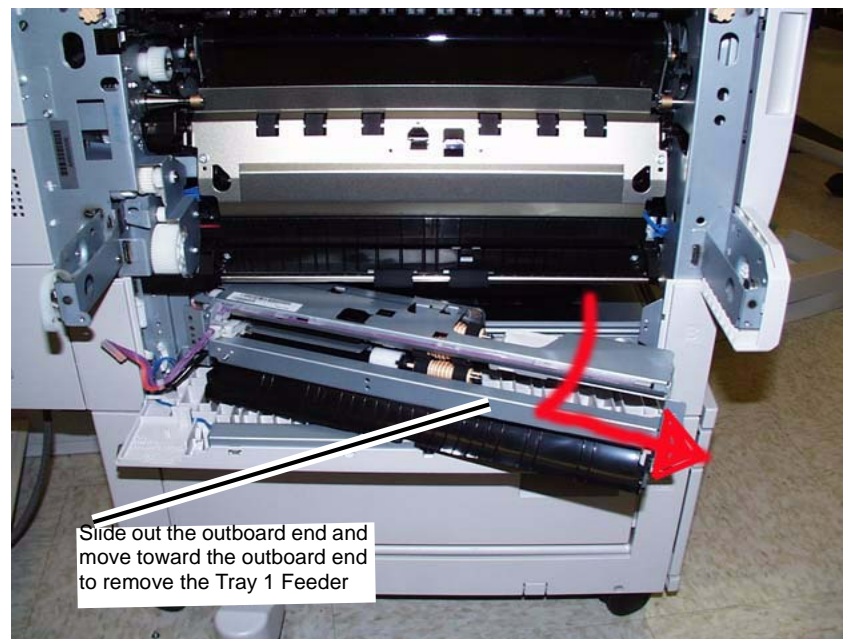


Figure 4 Removing the Tray 1 Feeder

Replacement

When installing the sensor bracket, be sure to insert the bracket tab into the cut out in the frame before installing the screw. (Figure 5)

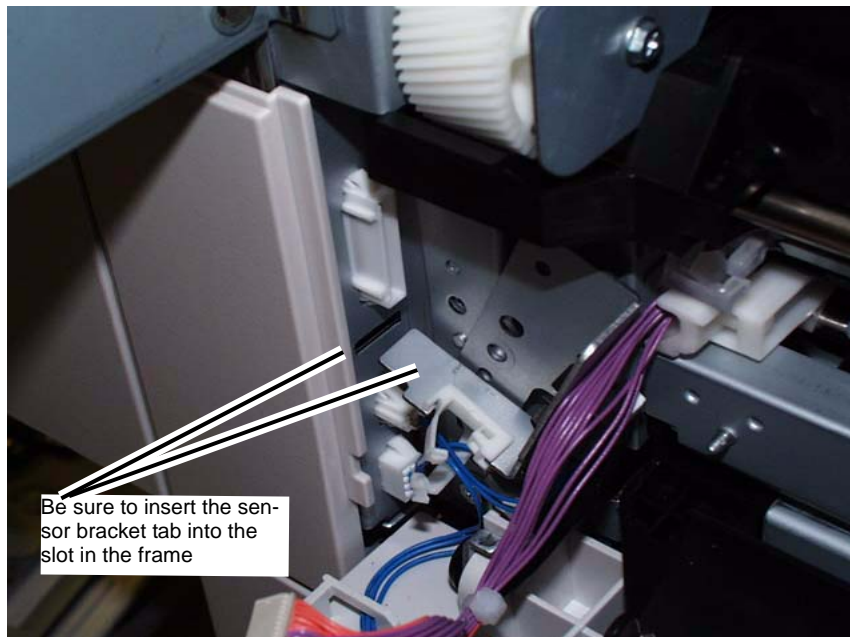


Figure 5 Installing the sensor bracket

REP 2.3.1 Tray 1 Feed/Nudger/Retard Roll

Parts List on PL 2.3

Removal

NOTE: Only the replacement procedure for the Tray 1 Feed/Nudger/Retard Roll is described here.

NOTE: When replacing the Tray 1 Feed/Nudger/Retard Roll, enter Diag. mode and clear the counter for the Tray 1 Feed counter.

WARNING

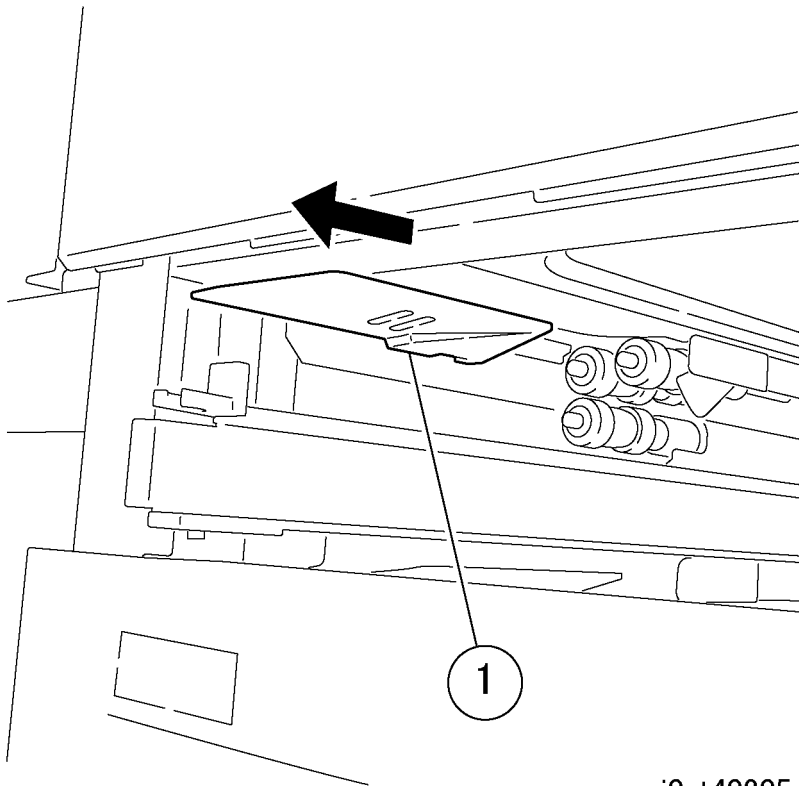
To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

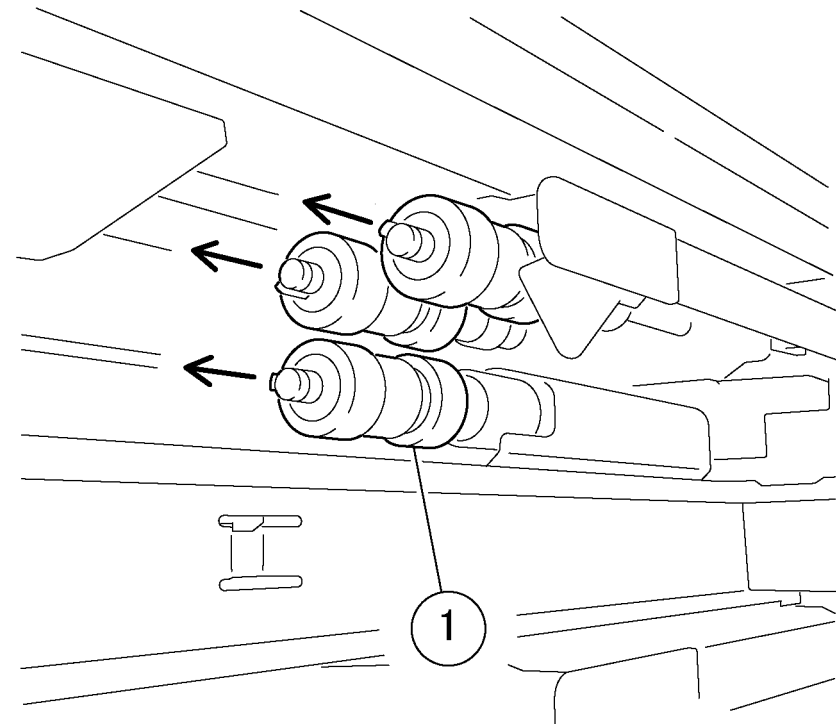
NOTE: The Feed, Nudger and Retard Roll must be replaced at the same time.

1. Remove Tray 1.
2. Slide the guide toward the front. (Figure 1)
 1. Slide the guide.



j0st40205

Figure 1 Sliding the guide to the front



j0st40206

Figure 2 Removing the Feed/Nudger/Retard Roll

3. Remove the Feed/Nudger/Retard Roll. (Figure 2)
 1. Rotate the Feed/Nudge/Retard Roll clockwise to access the locking tab. Release the lock and remove the Feed/Nudger/Retard Roll.

REP 2.4.1 Registration Unit

Parts List on PL 2.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the L/H Upper Cover Unit. (REP 2.6.2)
2. Remove the MSI Unit. (REP 7.1.1)
3. Disconnect the connector. (Figure 1)

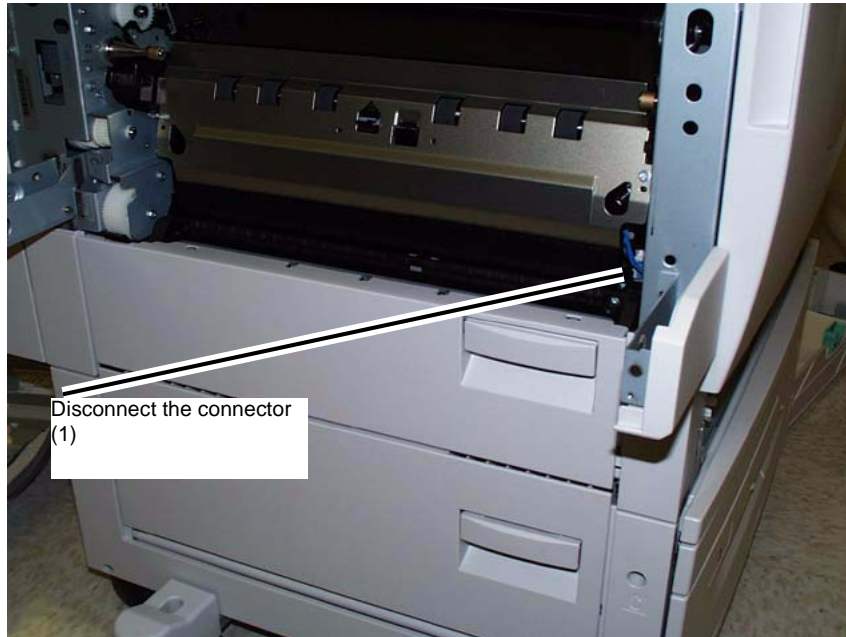


Figure 1 Disconnecting the connector (1)

4. Remove the screws (2). (Figure 2)

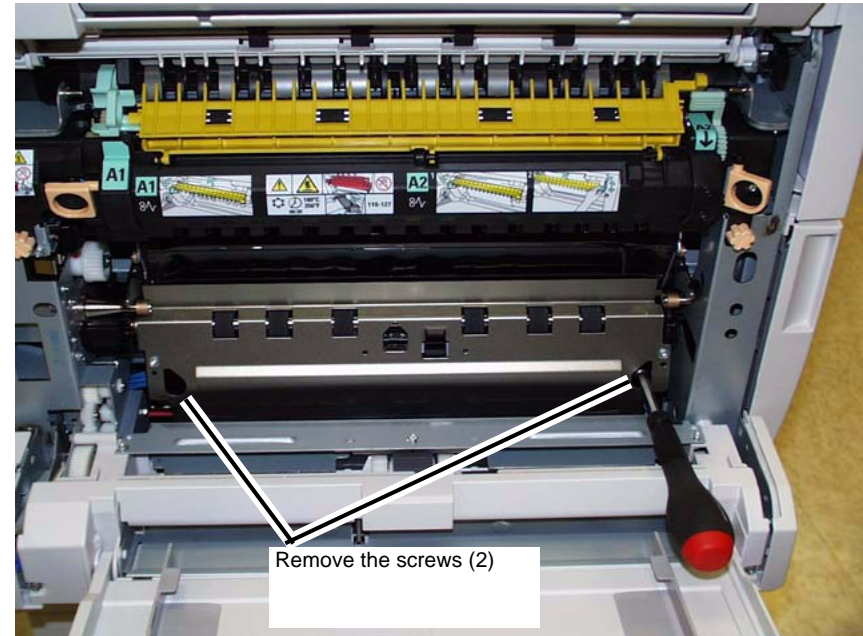


Figure 2 Removing the screws (2)

5. Pull the outboard end of the Registration Unit toward the left of the machine and remove the Unit. (Figure 3)

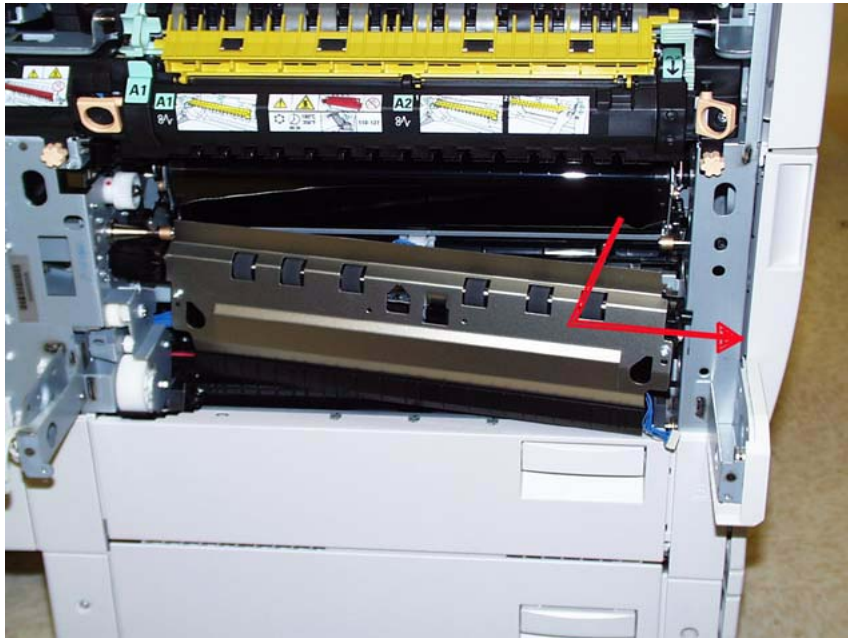


Figure 3 Removing the Registration Unit

Replacement

NOTE: When reinstalling the Registration Unit, it might be necessary to rotate the Registration Drive gears in order for the gears to be aligned properly.

REP 2.5.1 Takeaway Roll

Parts List on PL 2.6

Removal

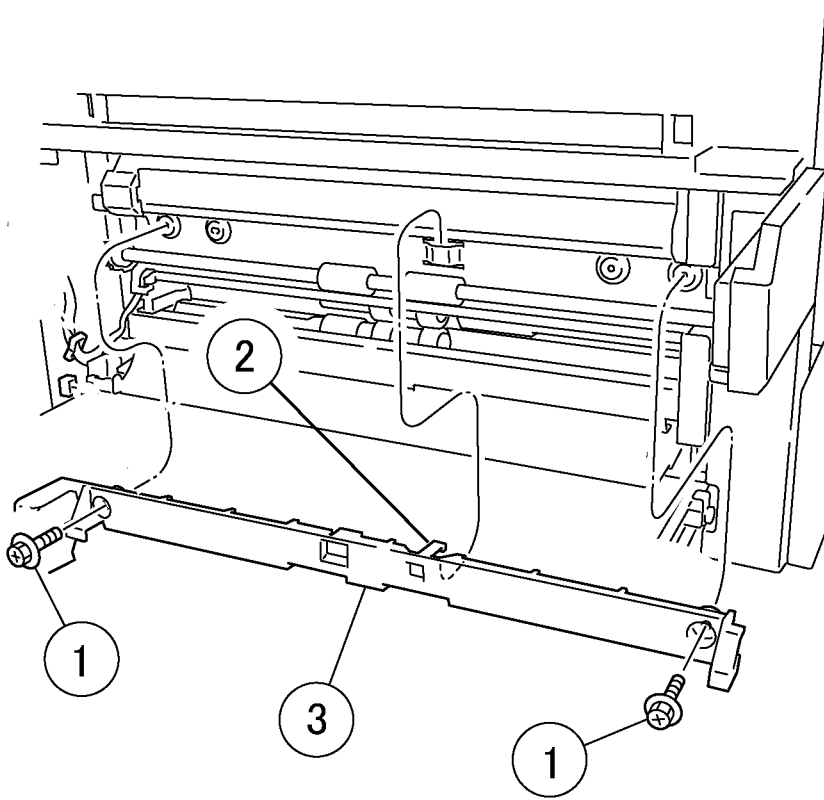
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

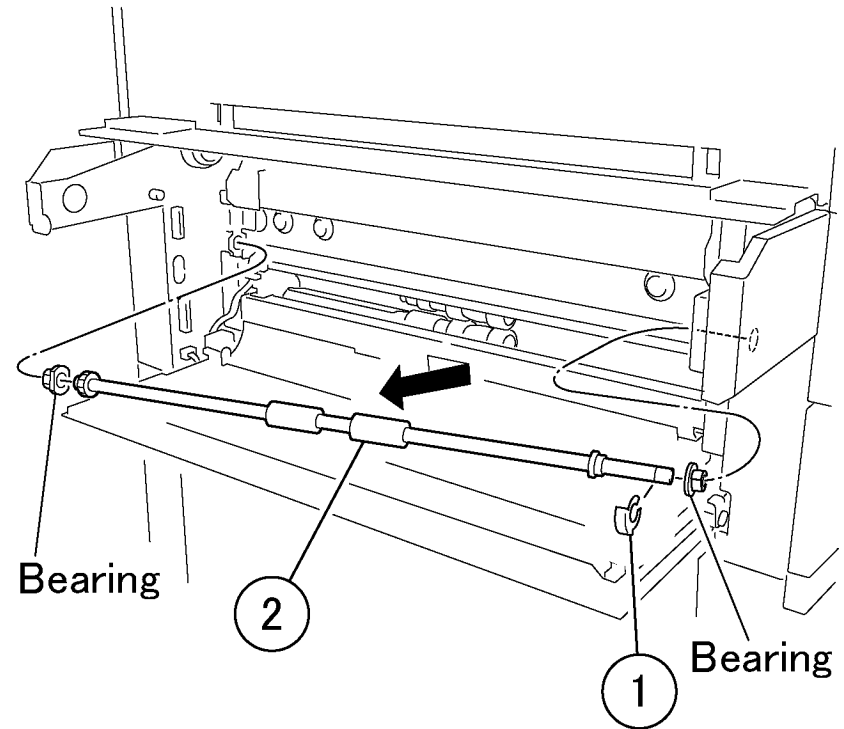
Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the power cord.
2. Remove the MSI Assembly. (REP 7.1.1)
3. Remove the L/H Lower Cover.
4. Remove the Chute. (Figure 1)
 1. Remove the screws (2).
 2. Release the hook.
 3. Remove the Chute.



j0tp40202

Figure 1 Removing the chute



j0tp40203

Figure 2 Removing the Takeaway Roll

4. Remove the Takeaway Roll. (Figure 2)

NOTE: Use care not to drop bearings or gear.

1. Remove the E-Clip
2. Slide out the Takeaway Roll

REP 2.6.2 L/H Upper Cover Unit

Parts List on PL 2.7

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the connector.
2. Open the L/H Upper Cover.
3. Release the Cover Support while holding the L/H Upper Cover. (Figure 1)
 1. Release the Cover Support.

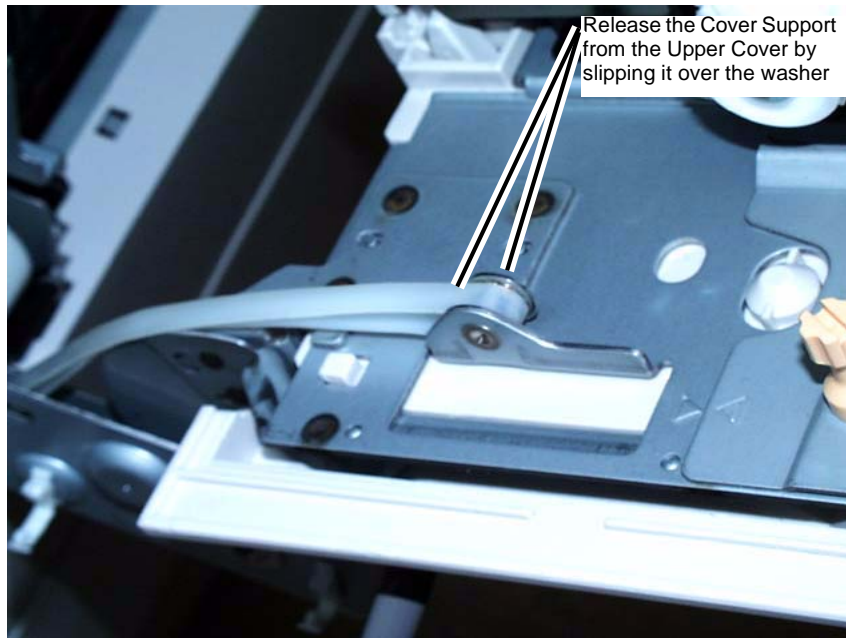


Figure 1 Releasing the Cover Support

4. Remove the L/H Upper Cover Unit. (Figure 2)

NOTE: If Duplex Module is present, disconnect the connector.

1. Open the L/H Upper Cover Unit until it becomes horizontal.
2. Lift up the unit and remove it.

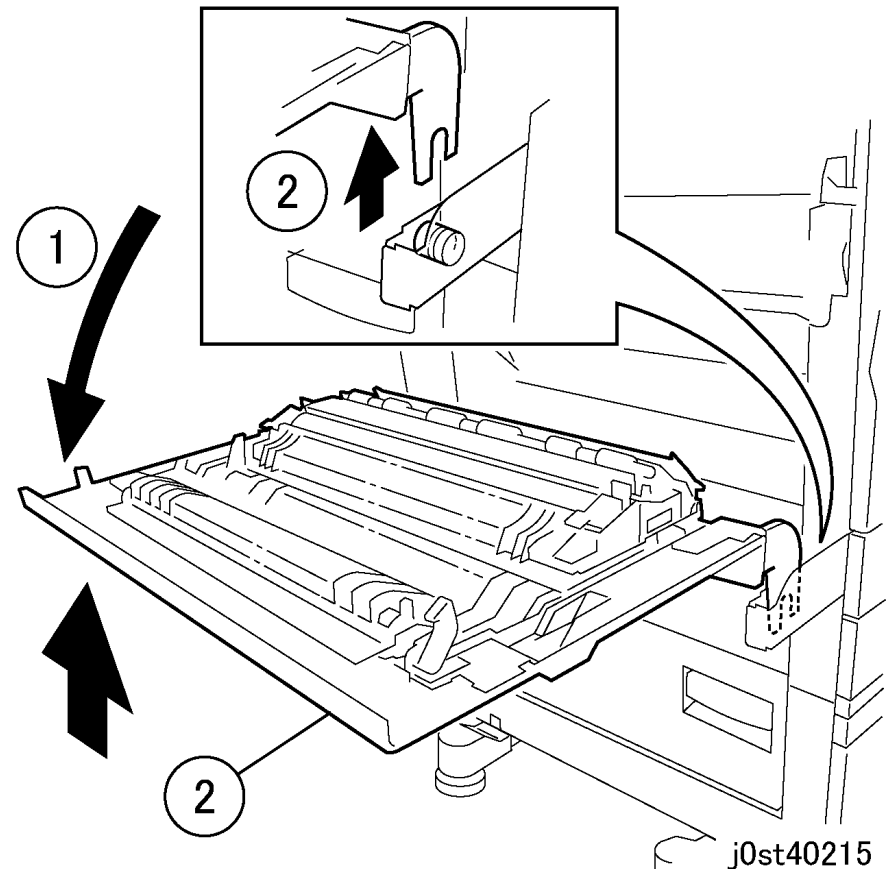


Figure 2 Removing the L/H Upper Cover Unit

REP 3.1.1 ROS Unit

Parts List on PL 3.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the Power Cord.
2. Remove the Right Side Cover. (REP 10.2.3)
3. Remove the Power Supply. (REP 9.2.3)
4. Remove the ROS Cooling Fan bracket. (Figure 1)

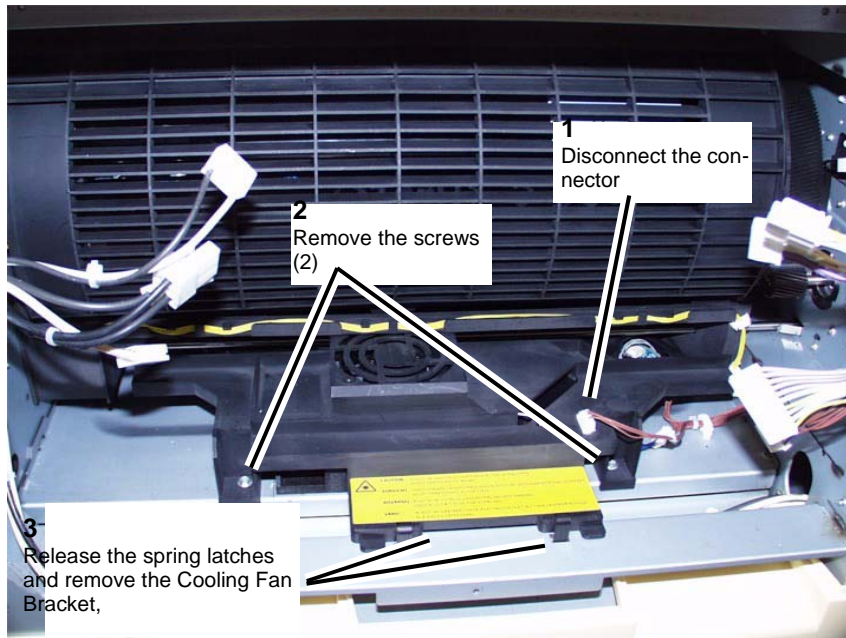


Figure 1 Removing the ROS Cooling Fan Bracket

5. Preparing to remove the ROS Assembly. (Figure 2)

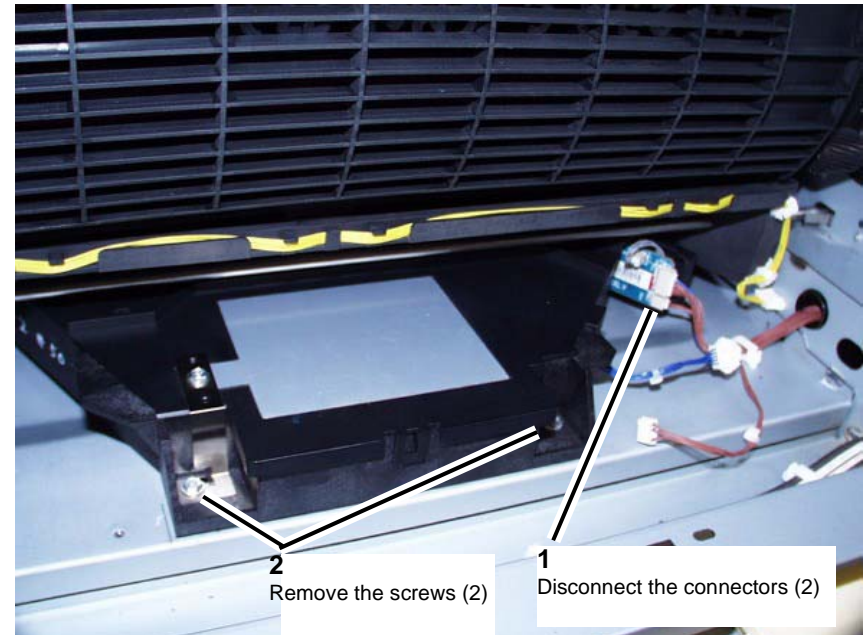


Figure 2 Preparing to remove the ROS Assembly

6. Removing the ROS Assembly. (Figure 3)

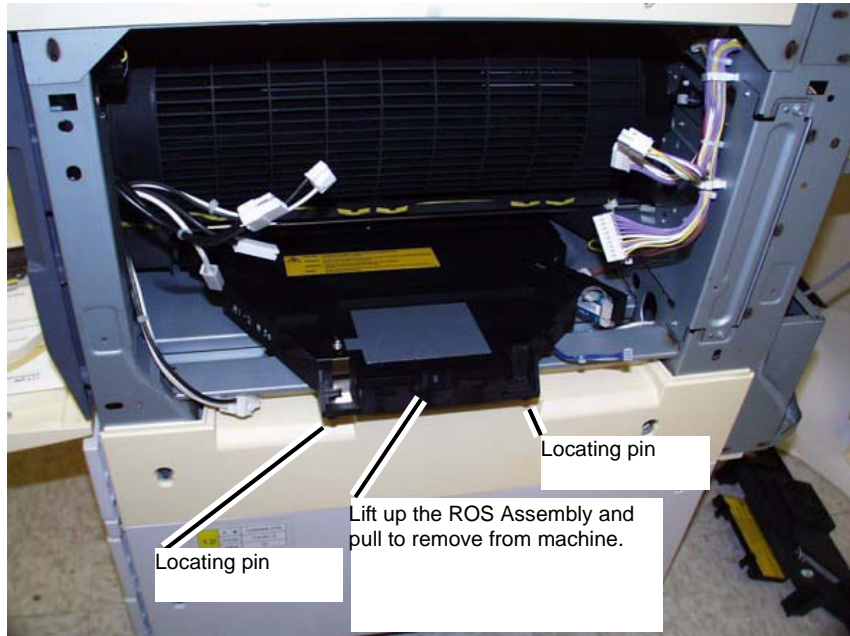


Figure 3 Removing the ROS Assembly

Replacement

NOTE: When the ROS Unit has been installed, read the warning label on top of the ROS unit carefully before turning on the power and performing replacement.

1. Installing the ROS Assembly. (Figure 3)
 - a. To install, push the ROS Assembly into the machine.
 - b. Be sure that the locating pins (2) on the ROS is engaged into the machine frame.
 - c. Install the screws (2).
 - d. Connect the connectors (3).
2. Perform the remainder of the replacement procedure in the reverse order of the removal.

REP 4.1.1 Developer Housing

Parts List on PL 5.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Ensure that the "Ready to Copy" is displayed on the Control Panel display.
2. Switch off the power and disconnect the Power Cable.
3. Remove the Toner Cartridge of the Developer Housing to be removed.
4. Remove the Front Cover. (REP 10.2.2)
5. Remove the Low Voltage Power Supply. (REP 9.2.3)
6. Prepare to remove the Rotary Cover. (Figure 1)

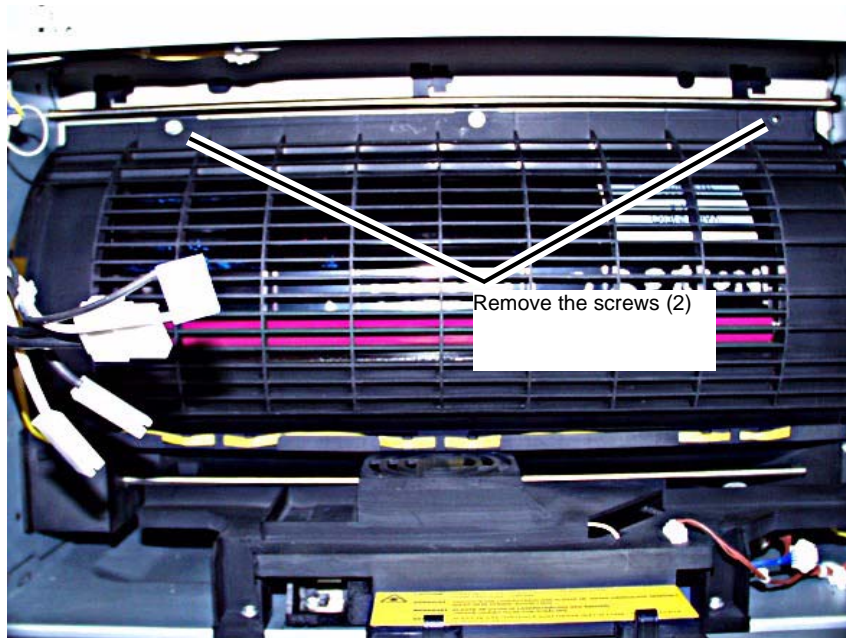


Figure 1 Preparing to remove the Rotary Cover

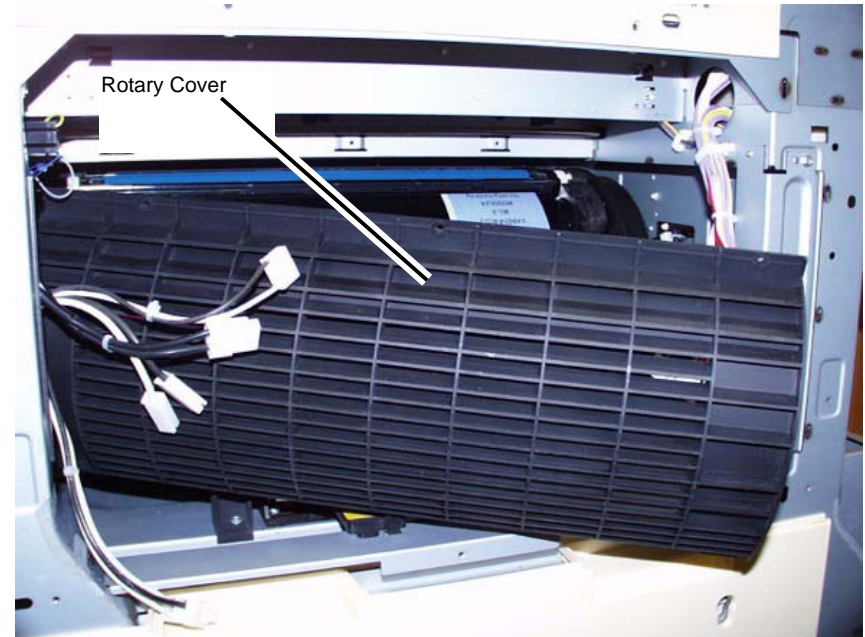


Figure 2 Removing the Rotary Cover

7. Remove the Rotary Cover. (Figure 2)
8. Open the Toner/Developer Access Door.
9. Prepare to remove the Developer Housing. (Figure 3)
 1. Push in and hold the Rotary Release Knob.
 2. Manually rotate the Rotary until the Developer Housing to be removed is in position then release the rotary Release Knob.
 3. Remove the screw (1).

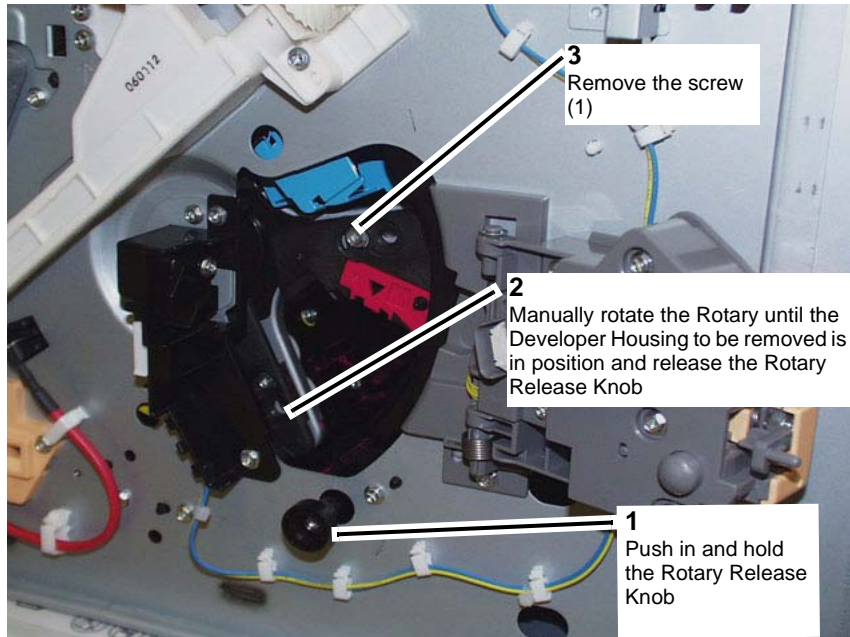


Figure 3 Preparing to remove the Developer Housing

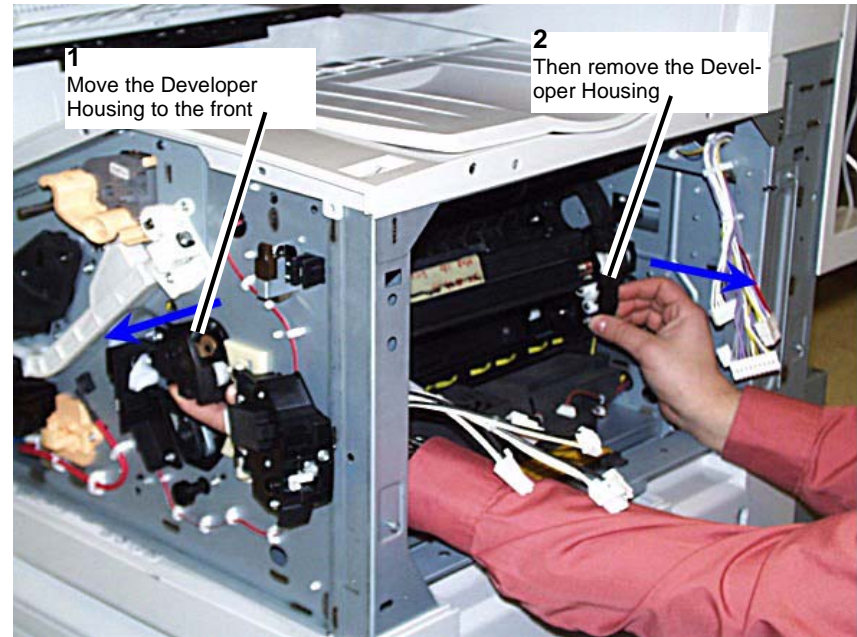


Figure 4 Removing the Developer Housing

4. Move the Developer Housing toward the front then remove the Developer Housing. (Figure 4)

Replacement

1. When reinstalling the Developer Housing, ensure that the Spring, located on the outboard end of each Developer Housing, is straight as it is pressed against the turret of the Rotor frame. This Spring must be present, and properly installed. (Figure 5)

NOTE: If this Spring is not straight when the Developer Housing is in place, Color-to-Color registration will be out of alignment.

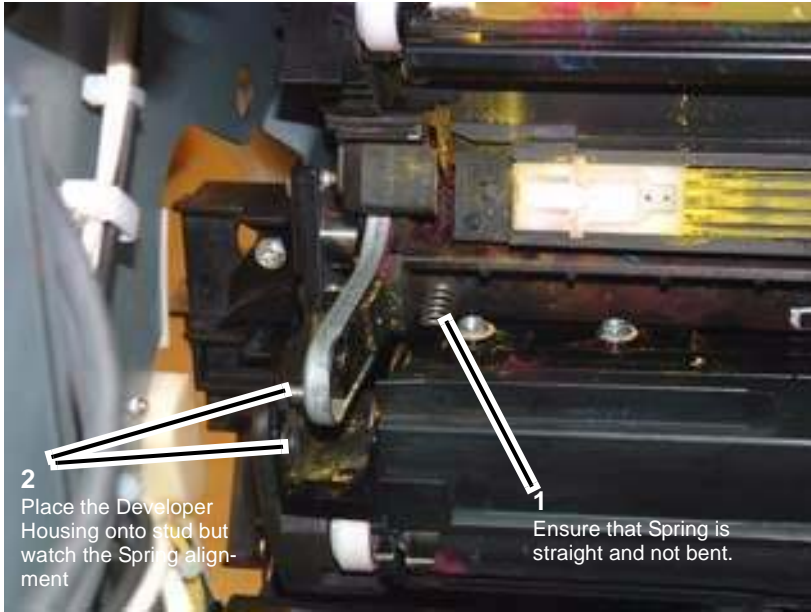


Figure 5 Location of Spring

CAUTION

When installing the Rotary Cover, ensure that the three Rotary Cover tabs are properly inserted into the frame before installing the screws. An improperly installed Rotary Cover may cause a developer dump during machine operation. (Figure 6)

2. Install the Rotary Cover. (Figure 6)

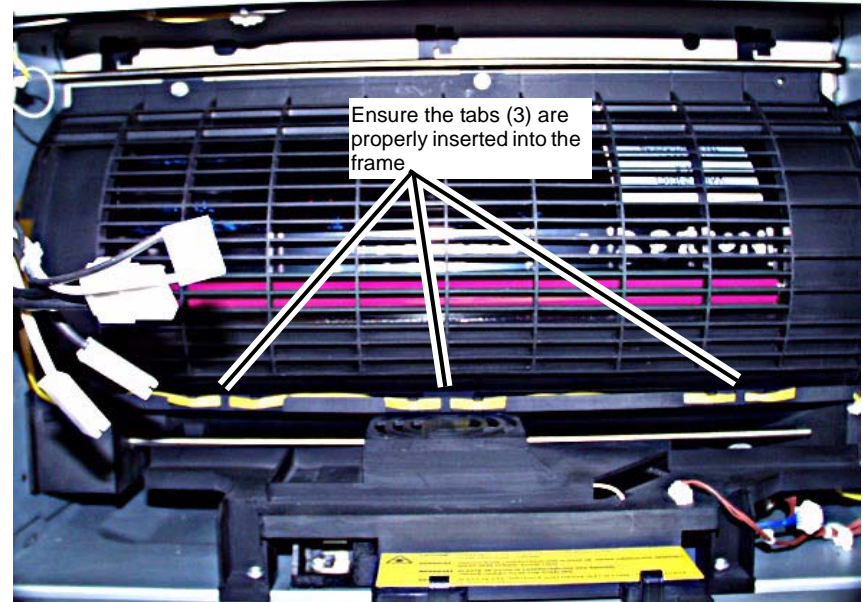


Figure 6 Inserting the Rotary Cover tabs

3. Perform the remainder of the replacement in reverse order of removal.
4. Enter UI Diagnostic Mode, select Adjustment / Others button, then select Initialize HFSI Counter and Reset Current Value.
 - 954-830 = Black
 - 954-831 = Yellow
 - 954-832 = Magenta
 - 954-833 = Cyan
5. Enter UI Diagnostic Mode, and select NVM Read/Write and reset the following NVM locations to zero.
 - 752-941 = Yellow
 - 752-942 = Magenta
 - 752-943 = Cyan
 - 752-944 = Black
6. Perform Max Setup. (ADJ 9.1.2)

REP 4.1.2 Toner Cartridge

Parts List on PL 5.2

Removal

CAUTION

FAX Models

Check the Job Status button to ensure that there are no jobs in progress.

Check that "Ready to Copy" is displayed on the Control Panel display.

1. With the machine in Ready to Copy mode, press the **Machine Status** button.
2. On the **Machine Status Screen** select the **Supplies** tab.
3. Select on the UI screen, the color toner cartridge to be removed.
4. Select **Replace Cartridge** on the screen.

NOTE: This will rotate the Toner/Developer Rotary to the color Toner Cartridge selected.

5. Open the Front Door.
6. Open the Toner/Developer Access Door by releasing the latch. (Figure 1)

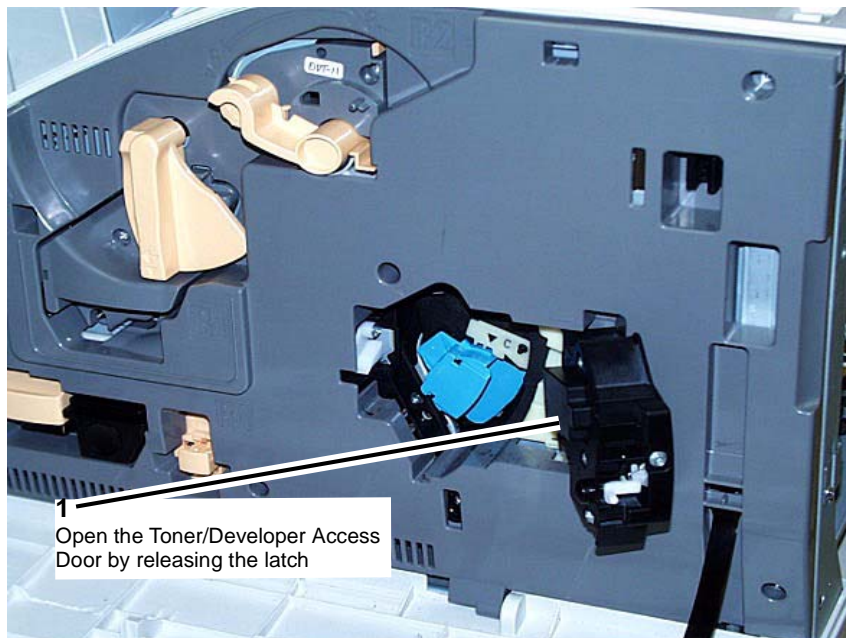


Figure 1 Opening the Access Door

7. Remove the Toner Cartridge. (Figure 2)

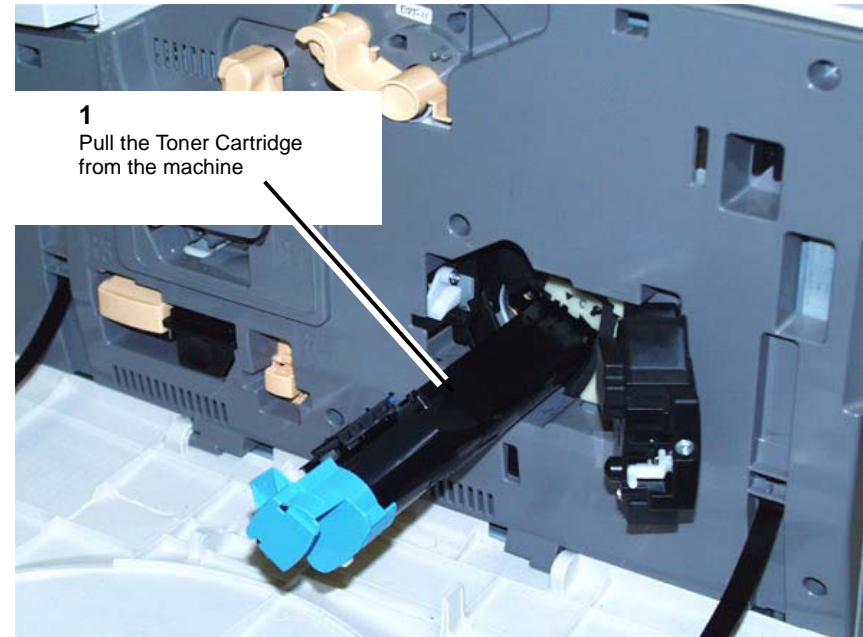


Figure 2 Removing the Toner Cartridge

Replacement

1. After replacing the Toner Cartridge, close the Toner/Developer Access Door.
2. Close the Front Door.

NOTE: The control logic will detect the Toner Cartridge and return to the **Supplies** menu.

REP 4.1.3 Developer Bias Brush

Parts List on PL 5.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the Finisher if present.
3. Remove the Black (K) Developer Housing. (REP 4.1.1)

NOTE: Be sure to cover the Drum Module to prevent light shock.

4. Remove the Drum Module and store it in a black bag.
5. Rotate the Developer Rotary Assembly by pushing in the lock knob and rotate the Rotary until it is in the position shown. (Figure 1)

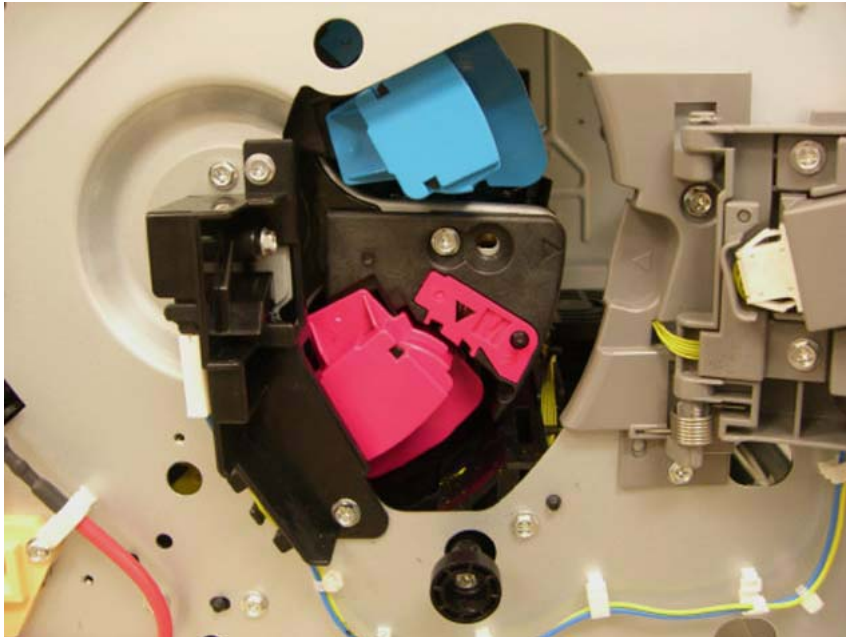


Figure 1 Positioning the Developer Rotary Assembly

6. Remove the Waste Toner Auger. (REP 4.1.4)
7. Remove the screws (2) and disconnect the High Voltage lead. (Figure 2)

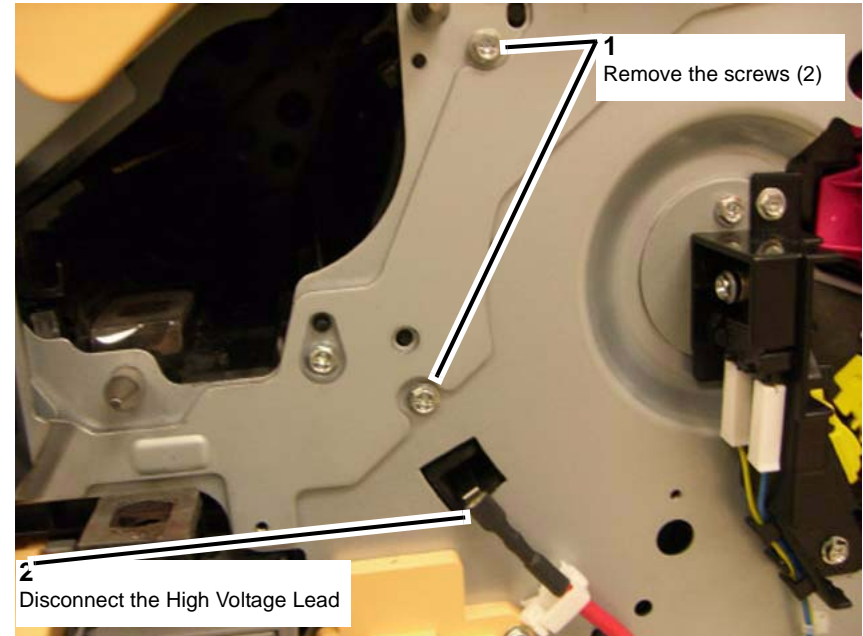


Figure 2 Removing the screws (2) and disconnecting the High Voltage Lead

8. Remove the Developer Bias Brush. (Figure 3)

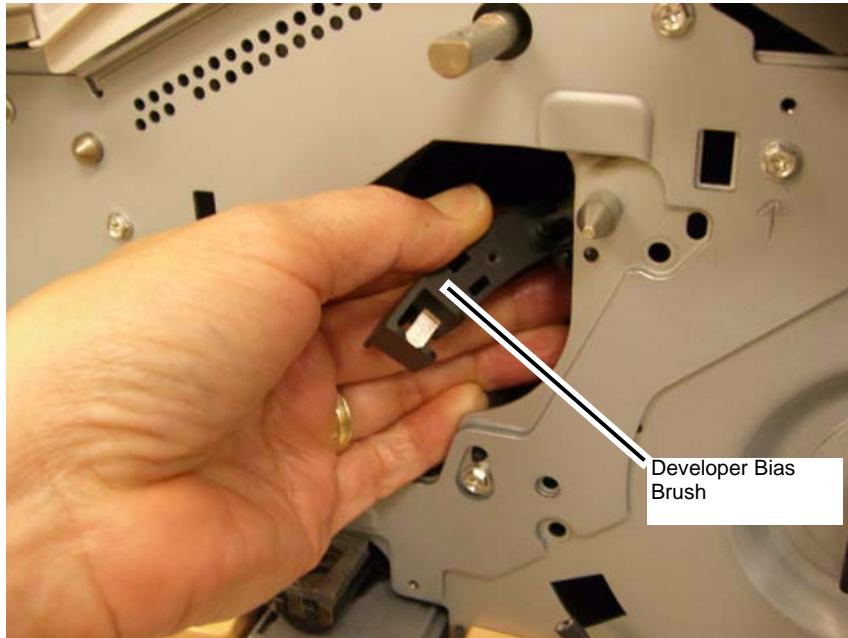


Figure 3 Removing the Developer Bias Brush

REP 4.1.4 Waste Toner Auger

Parts List on PL 6.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the Waste Auger drive shaft bushing. (Figure 1)

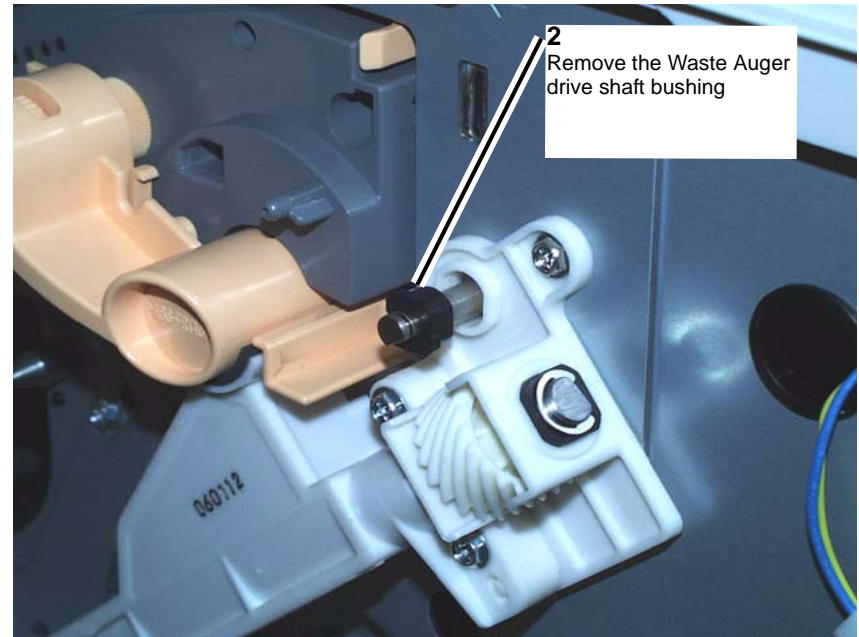


Figure 1 Removing the Waste Auger drive shaft bushing

NOTE: In the next step, place a sheet of paper under the opening in the Waste Auger when removing it from the frame.

3. Remove the Waste Auger. (Figure 2)

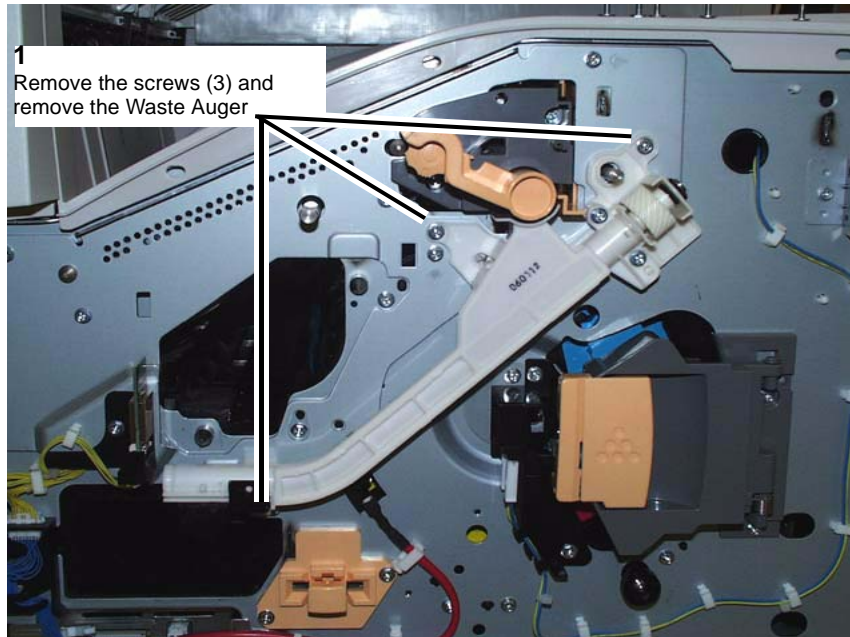


Figure 2 Removing the Waste Auger

REP 4.2.1 Developer Motor Assembly

Parts List on PL 1.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the Rear Lower Cover, the ESS Cover, and the MCU Cover. (REP 10.2.1)
3. Remove the MCU PWB chassis. (REP 9.1.1)
4. Remove the ESS PWB chassis. (REP 9.2.1)
5. Disconnect the connectors (2). (Figure 1)

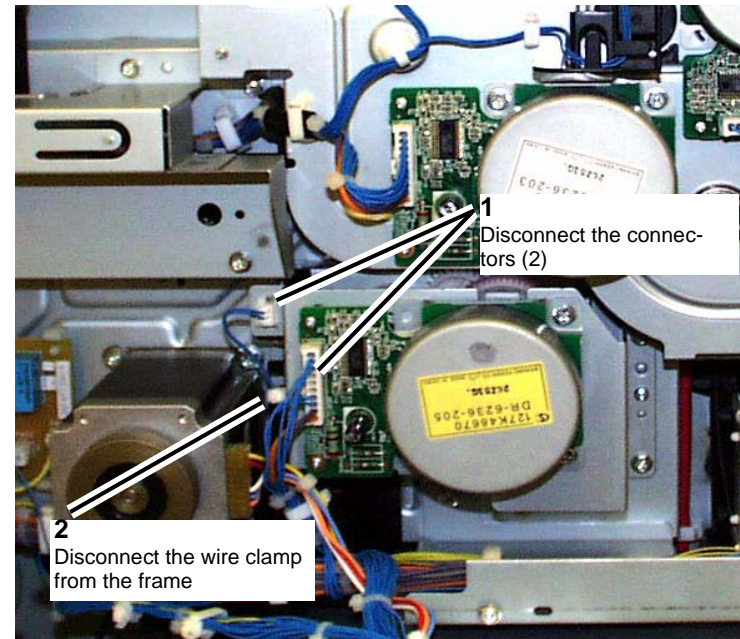


Figure 1 Disconnecting the connectors (2)

6. Remove the Developer Motor Assembly. (Figure 2)

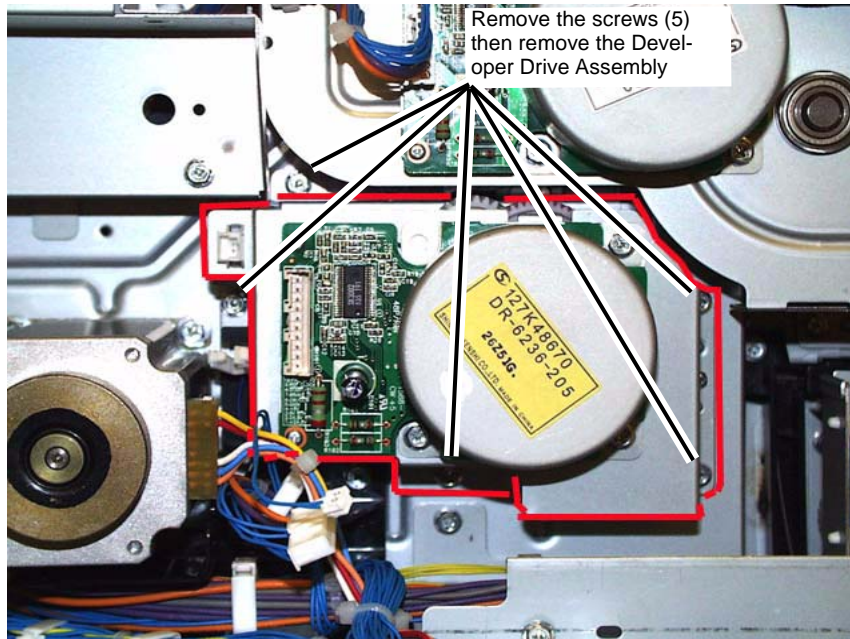


Figure 2 Removing the Developer Drive Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 4.2.2 IBT Module

Parts List on PL 6.1

Removal

1. Switch off the power and disconnect the power cord.
2. Remove the Front Cover. (REP 10.2.2)
3. Remove the Print Drum. (REP 4.2.3)

NOTE: Do not allow the Print Drum to be exposed to light for more than 30 seconds.

4. Store the Print Drum out of the way on a level surface and cover with paper to prevent light shock.

NOTE: The IBT Module should be removed with the IBT Cleaner attached, especially if the IBT Belt is to be reused.

5. Remove the Waste Toner Bottle, (Figure 1)

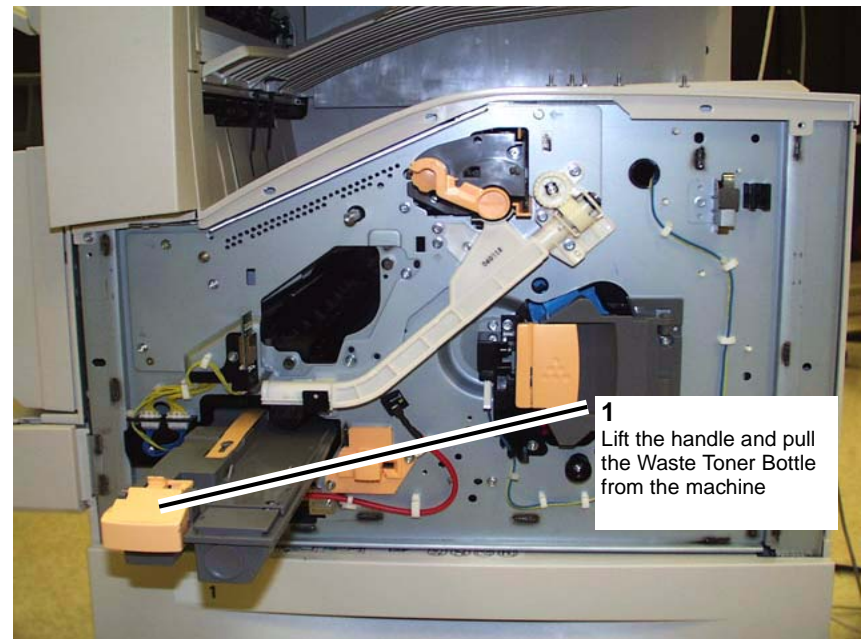


Figure 1 Removing the Waste Toner Bottle

6. Remove the Xerographic Drum CRUM Bracket. (Figure 2)

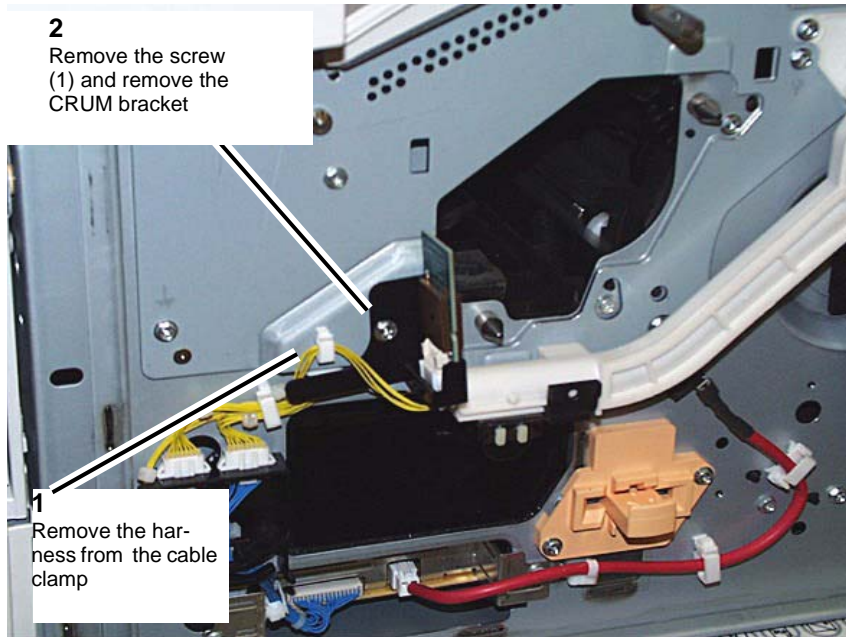


Figure 2 Removing the CRUM Bracket

7. Remove the Waste Auger drive gear. (Figure 3)

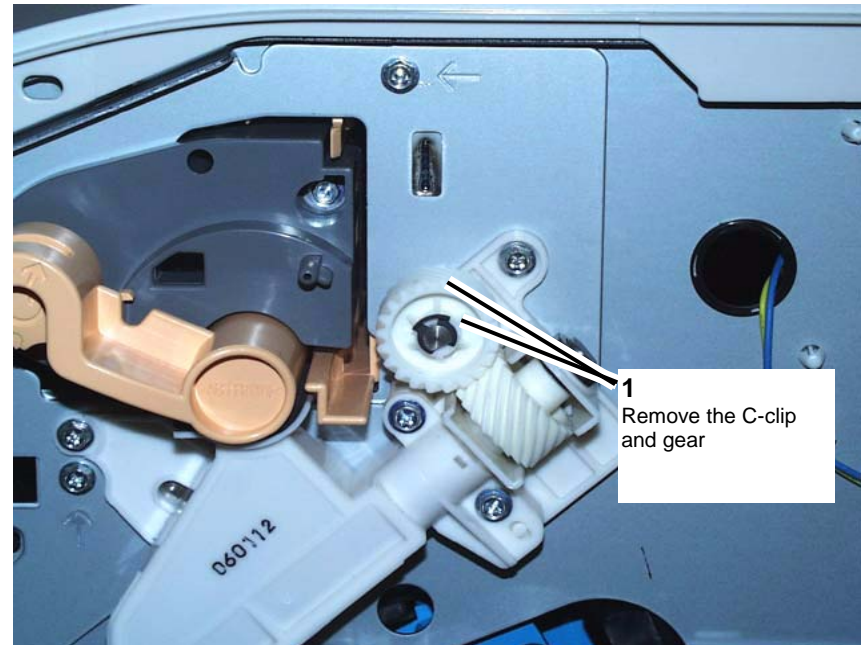


Figure 3 Removing the Waste Auger C-clip and drive gear

8. Remove the Waste Auger drive shaft bushing. (Figure 4)

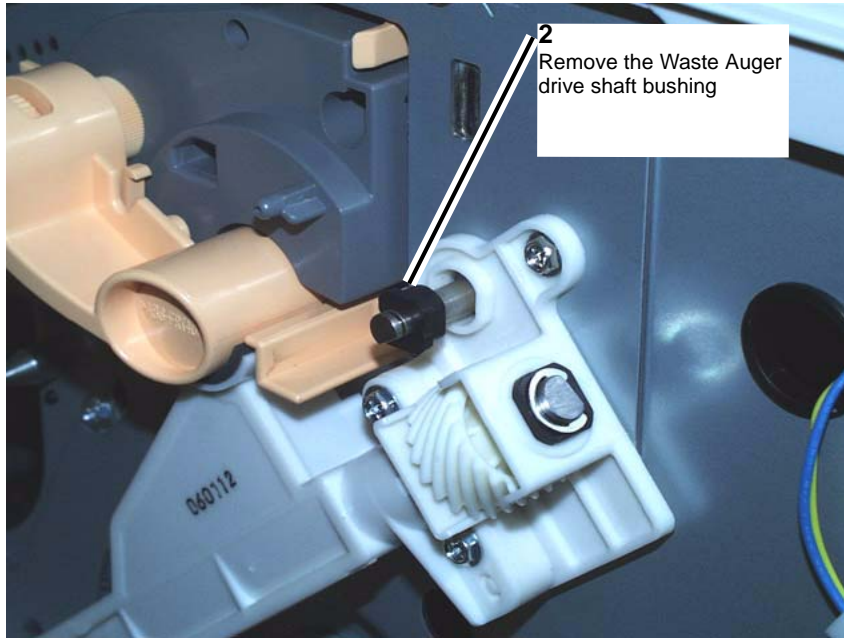


Figure 4 Removing the Waste Auger drive shaft bushing

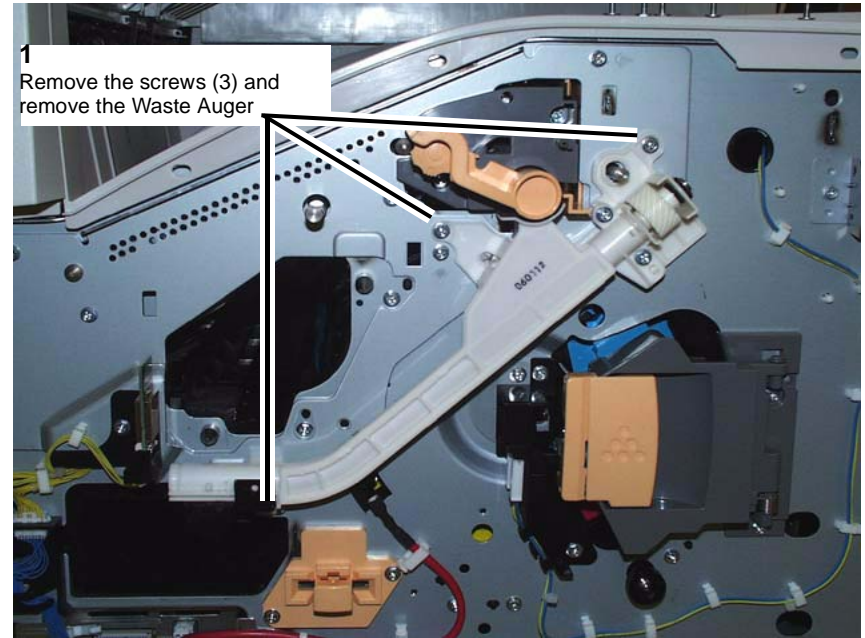


Figure 5 Removing the Waste Auger

NOTE: In the next step, place a sheet of paper under the opening in the Waste Auger when removing it from the frame.

9. Remove the Waste Auger. (Figure 5)

10. Open the left side door and position the levers (2) to the up or retract position. (Figure 6)

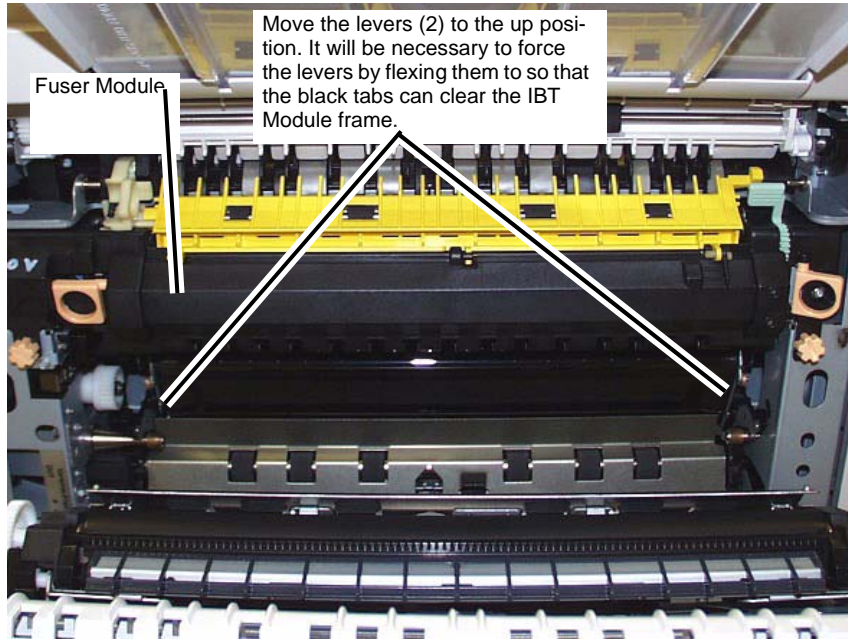


Figure 6 Moving the levers (2) to the retracted position

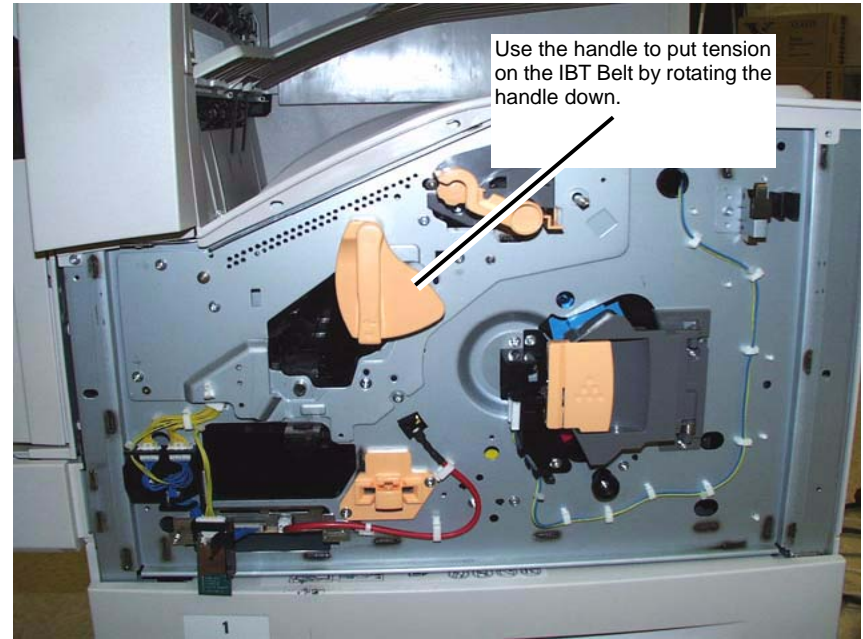


Figure 7 Re-tension the IBT Belt

11. Place the IBT Belt Tension Handle on the shaft and rotate the Handle counter clockwise to the down position put tension on the IBT Belt. (Figure 7)

12. Remove the screws (4) and the Tension Handle. (Figure 8)

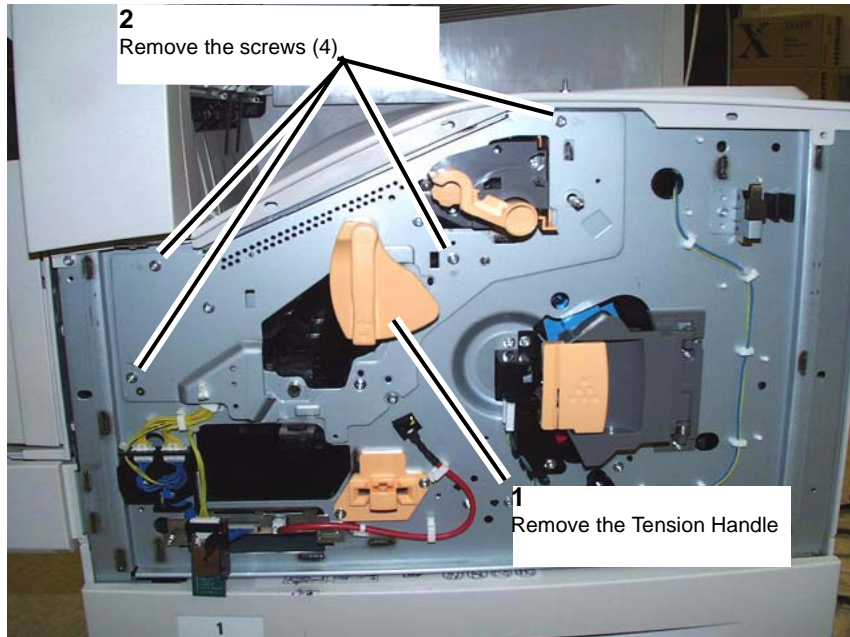


Figure 8 Preparing to removing the IBT Module

CAUTION

Do not touch the surface of the IBT Belt with hands. Print quality can be affected by belt surface residue and marks.

13. Pull the IBT Module out of the machine. (Figure 9)

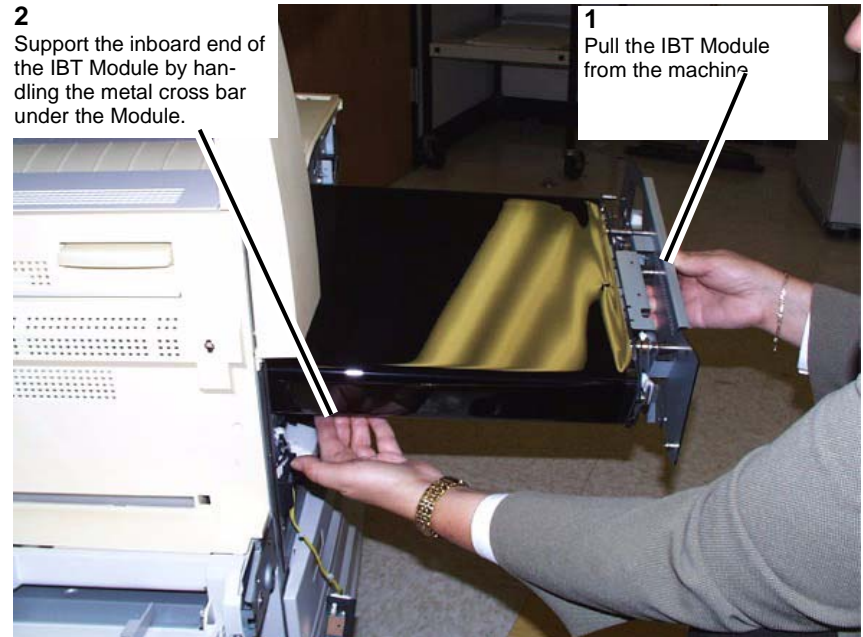


Figure 9 Removing the IBT Module from the machine

14. Place the IBT Module on a clean work surface.

NOTE: If the IBT Belt is to be removed, proceed to the IBT Belt procedure. (REP 4.2.5)

Replacement

1. Rotate the couplings to fully extend the two BTR2 levers.
2. With the two BTR2 levers fully extend, manually position them behind the IBT Module frame. This will allow the IBT Module to be inserted into the opening in the machine.
3. When the IBT Module is in the machine, then move the two BTR2 levers away from the IBT Module frame. This will allow the levers to capture the BTR2 when the left side door is closed.
4. Install the IBT Module in reverse order of removal.

REP 4.2.3 Print Drum

Parts List on PL 4.1

Removal

1. Open the Front Door.
2. Preparing to remove the Print Drum. (Figure 1)

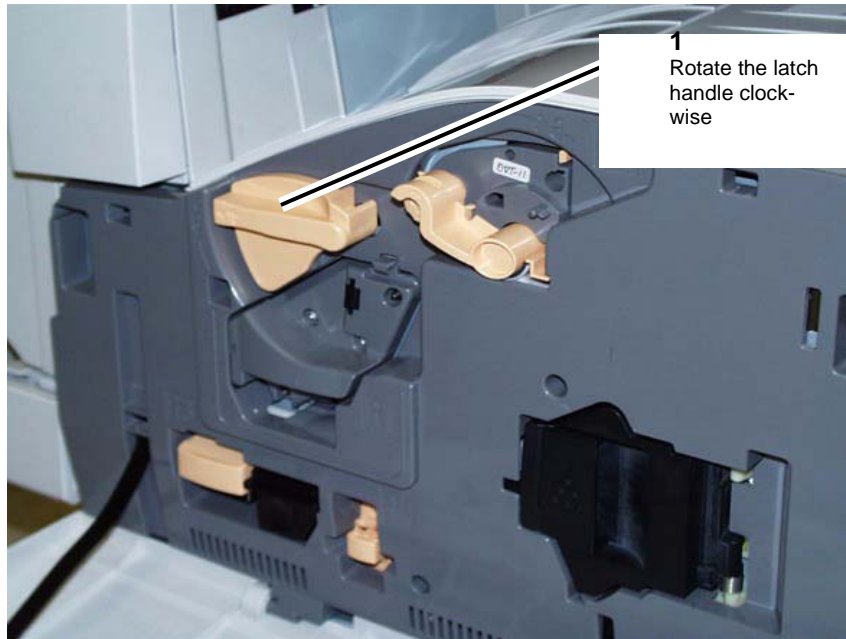


Figure 1 Preparing to remove the Print Drum

3. Removing the Print Drum from the machine. (Figure 2)

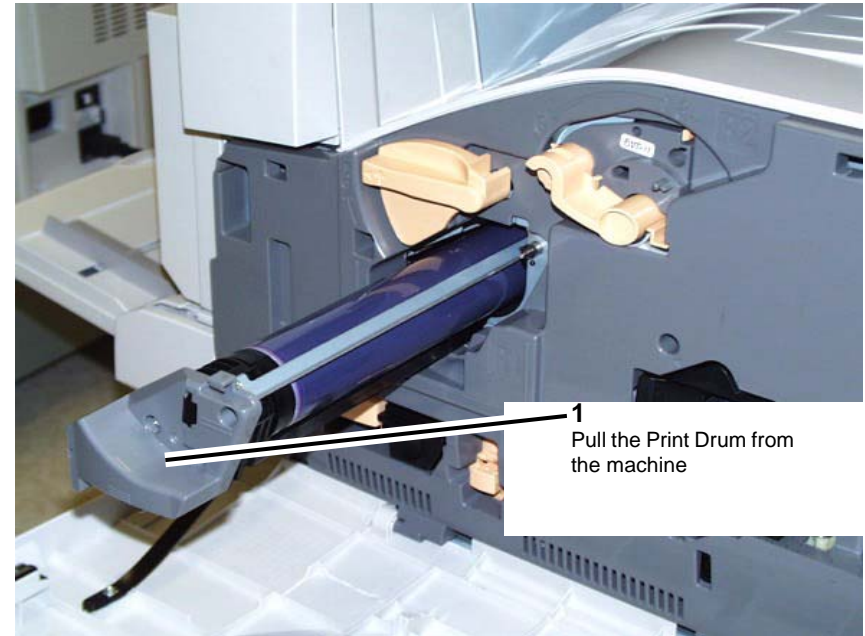


Figure 2 Removing the Print Drum

REP 4.2.4 IBT Cleaner

Parts List on PL 6.1

Removal

1. Open the Front door.
2. Prepare to remove the IBT Cleaner. (Figure 1)

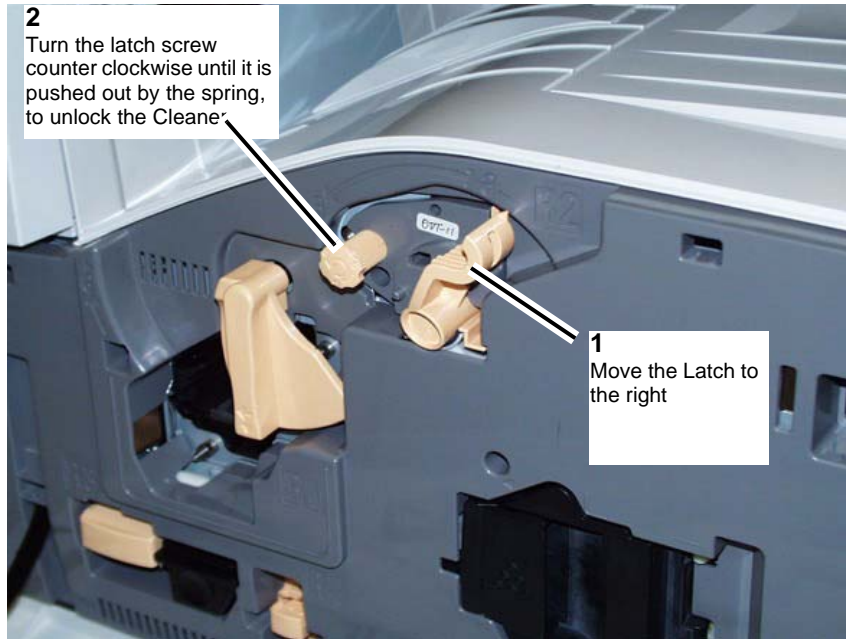


Figure 1 Preparing to remove the Cleaner

NOTE: Be careful to avoid spilling toner from the IBT Cleaner on the floor or covers.

3. Pull the IBT Cleaner out of the machine. (Figure 2)

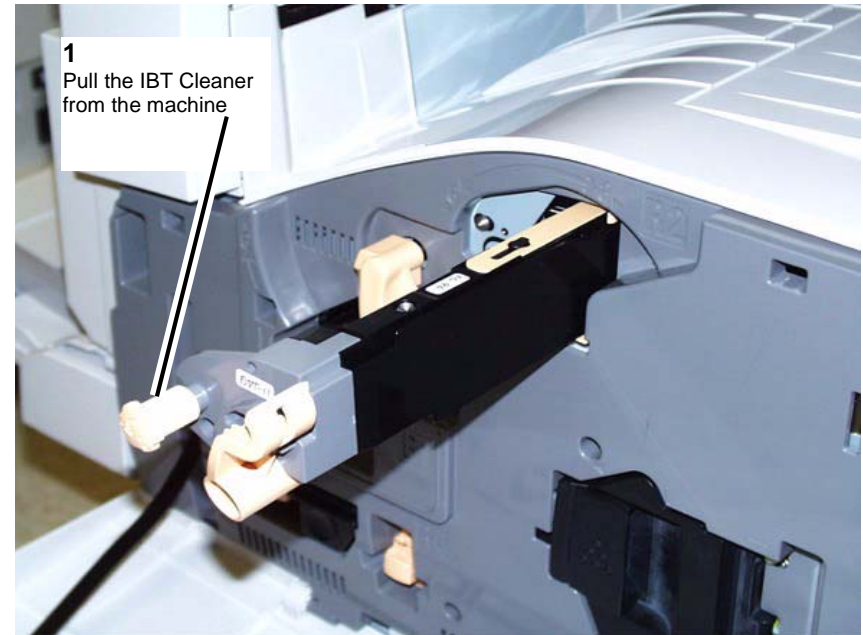


Figure 2 Removing the IBT Cleaner

REP 4.2.5 IBT Belt

Parts List on PL 6.2

Removal

1. Switch off the power and disconnect the Power Cord.
2. Remove the IBT Module. (REP 4.2.2)
3. Place the IBT Module on a flat work surface.
4. Remove the IBT Cleaner from the IBT Module. (REP 4.2.4)
5. Remove the outboard frame (Figure 1)

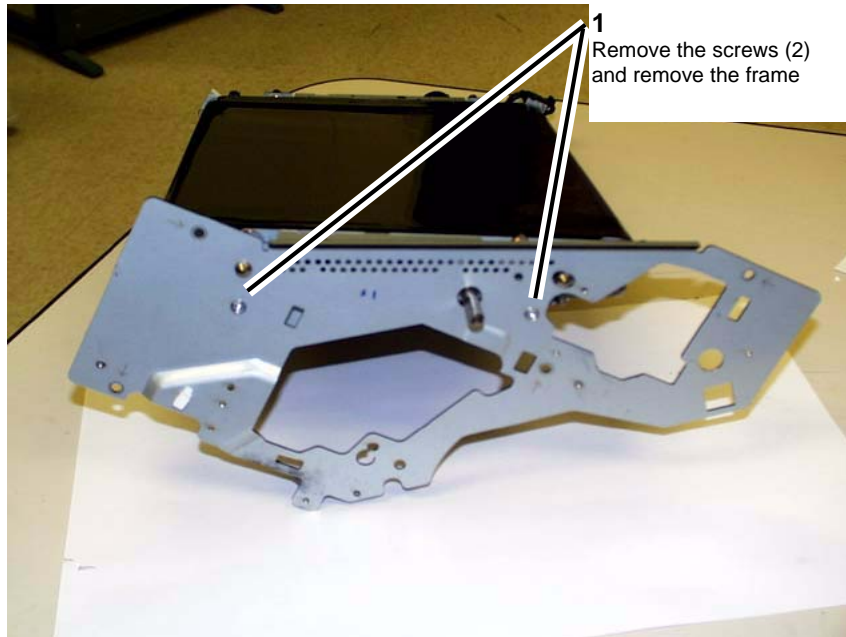


Figure 1 Removing the outboard frame

6. Remove the cross bar from the IBT Module. (Figure 2)

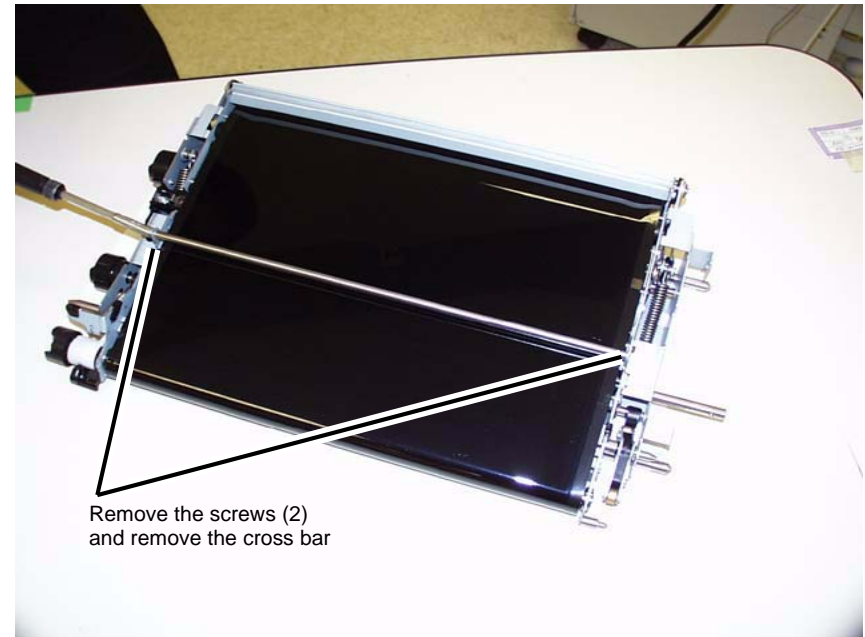


Figure 2 Removing the cross bar

NOTE: Note the orientation of the frame cross brace. Be sure to reinstall the frame cross brace in the same manner which it was removed.

7. Remove the cross brace. (Figure 3)

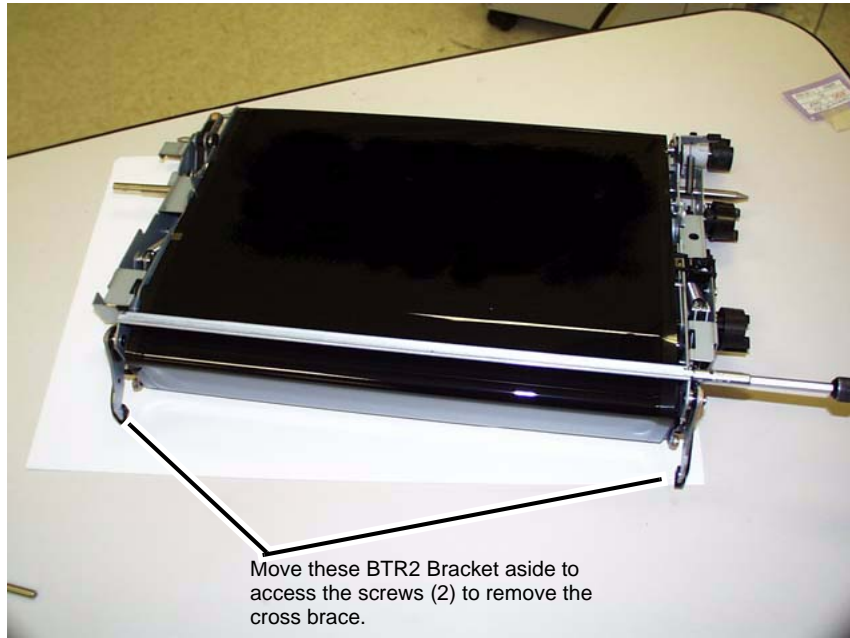


Figure 3 Removing the cross brace.

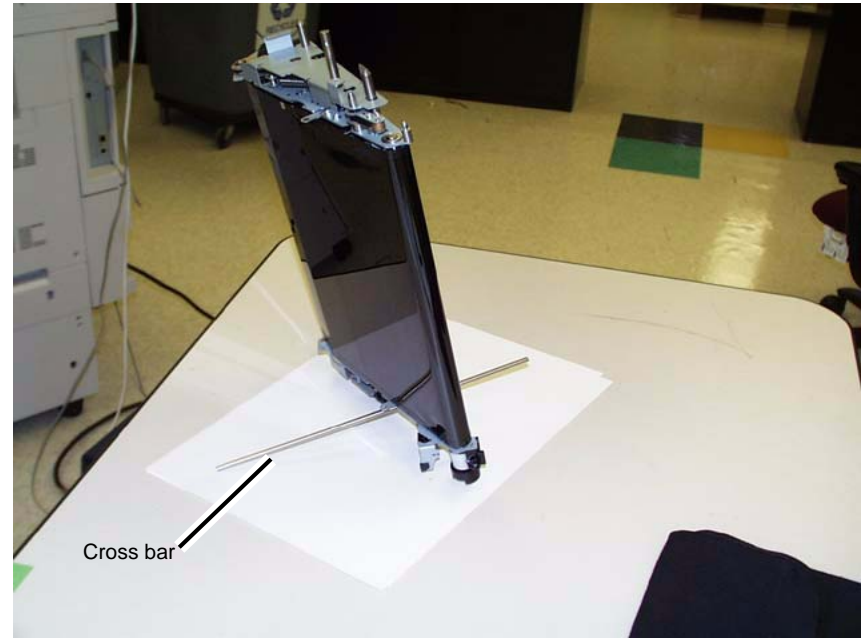


Figure 4 Using the cross bar as a foot

8. Use the cross bar as a foot by inserting it through the holes in the IBT Module frame and stand the Module on its end as shown. (Figure 4)
9. Remove the inner bracket. (Figure 5)

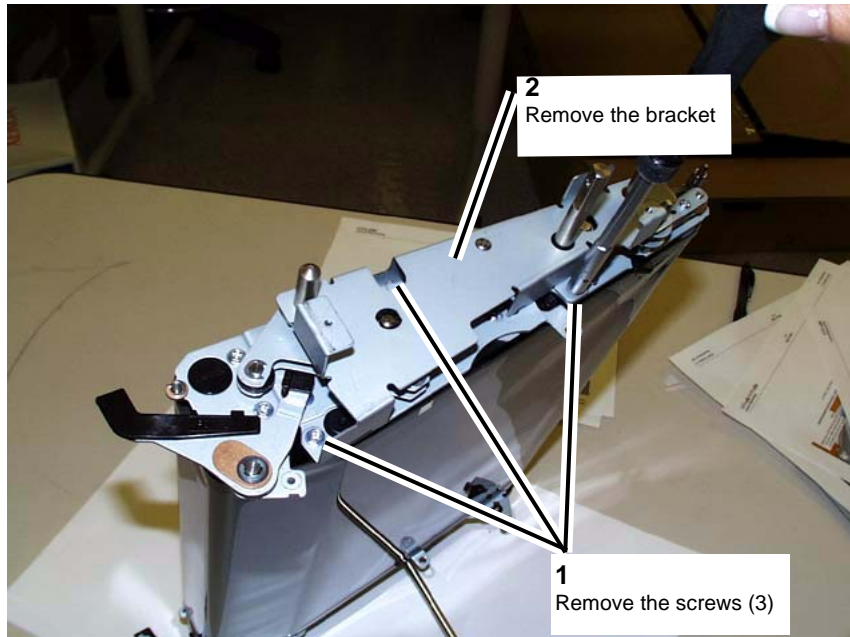


Figure 5 Removing the inner bracket

10. Release the tension of the Belt. (Figure 6)

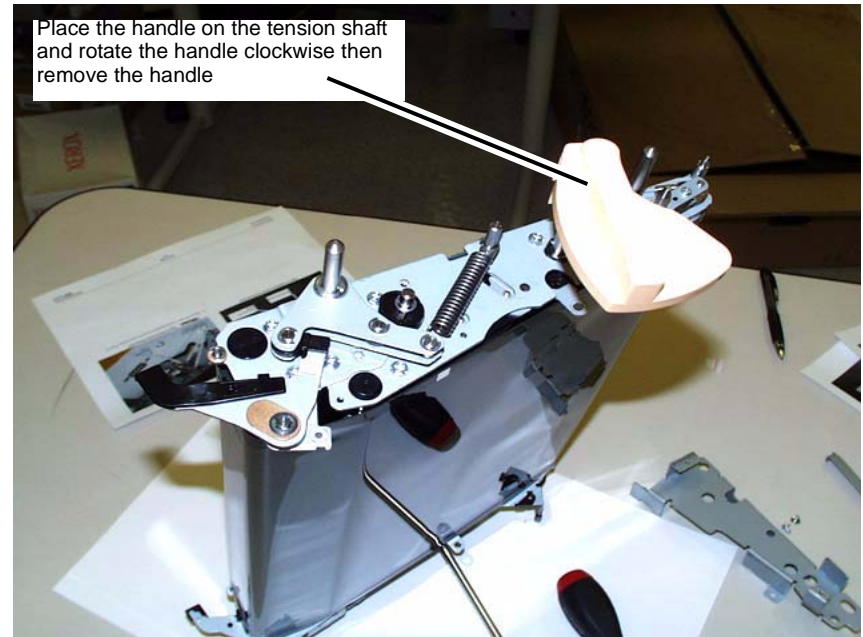


Figure 6 Releasing the Belt tension

11. Remove the follower lever. (Figure 7)

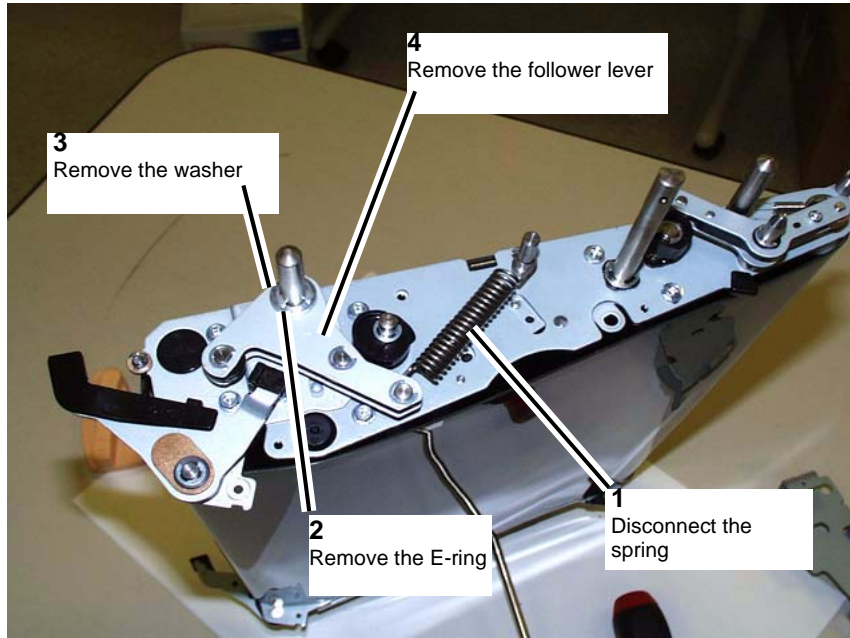


Figure 7 Removing the follower lever

12. Remove the bushing and E-ring. (Figure 8)

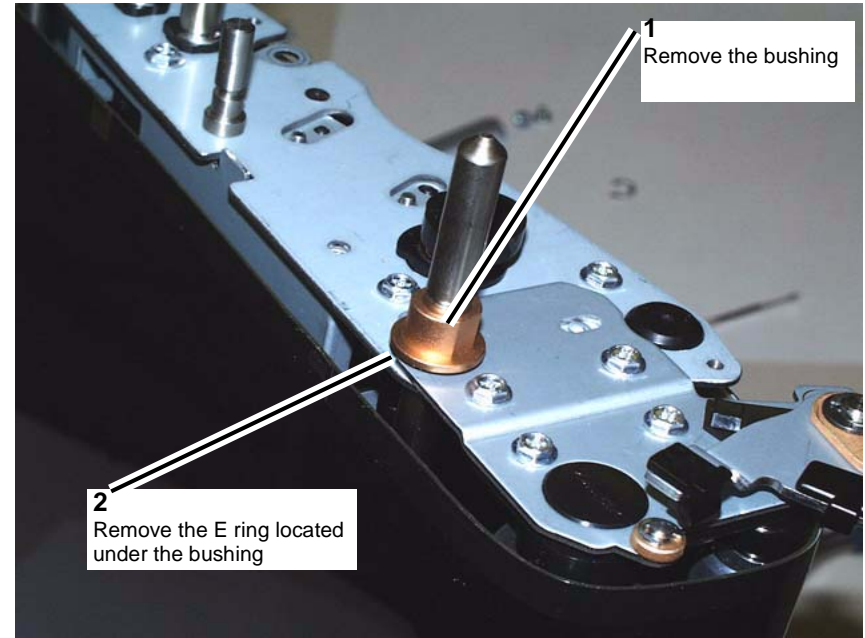


Figure 8 Removing the bushing and E-ring

13. Remove the Backup Roll bracket. (Figure 9)

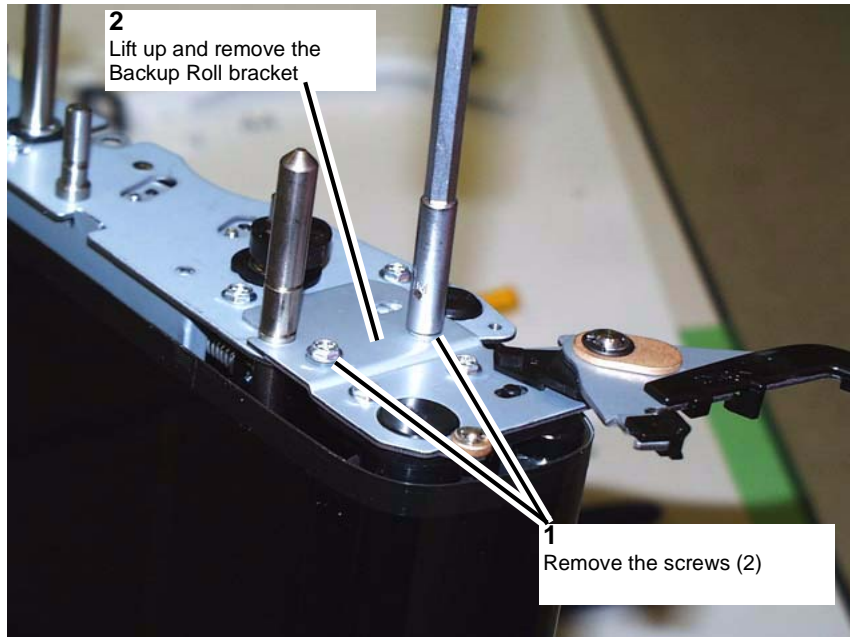


Figure 9 Removing the Backup Roll bracket

14. Remove the Backup Roll. (Figure 10)

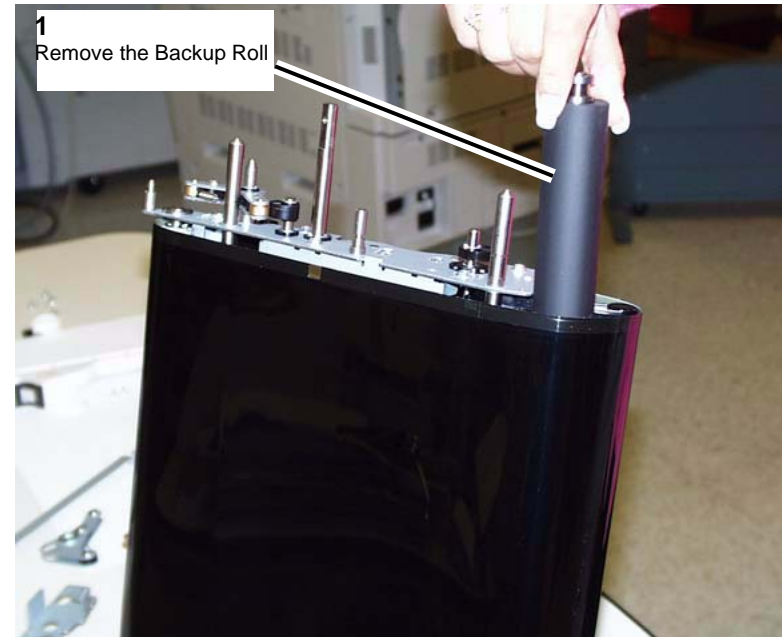


Figure 10 Removing the Backup Roll

15. Carefully remove the IBT Belt from the IBT Module. (Figure 11)

NOTE: Note that the Belt Sensor reflector is located toward the outboard end of the IBT Module. Be sure to install the IBT Belt in this orientation.

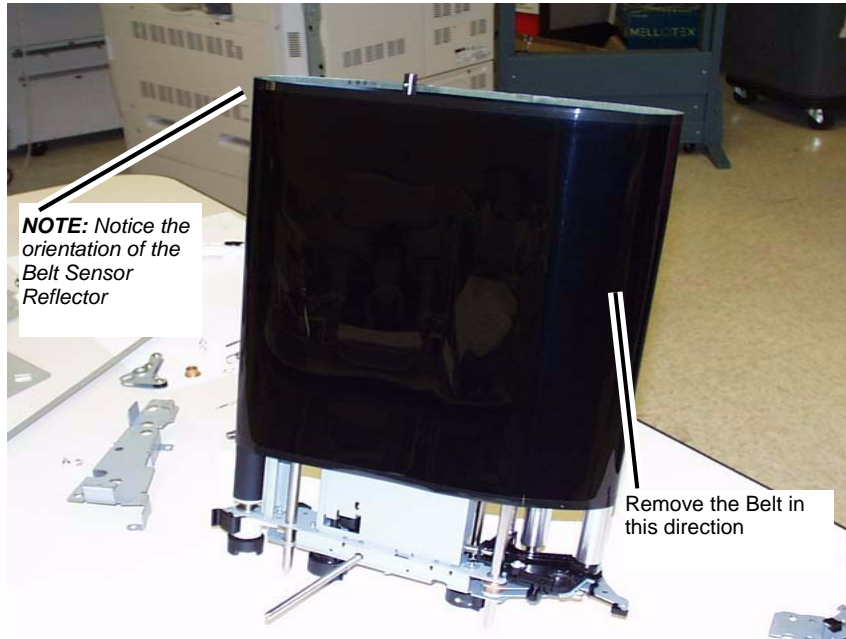


Figure 11 Removing the Belt

Replacement

1. Reassemble the IBT Module in reverse order of removal.

REP 4.2.6 Rotary Drive Motor

Parts List on PL 5.1

Removal

1. Switch off the power and disconnect the power cord.
2. Remove the Upper Rear Cover.
3. Remove the Lower Rear Cover.
4. Disconnect the Motor connector and wire harness clamps. (Figure 1)

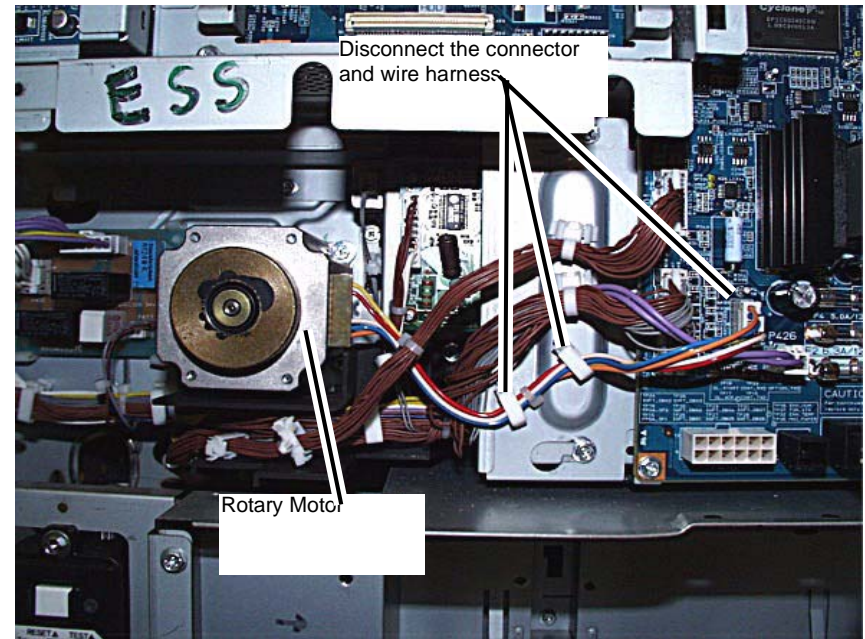


Figure 1 Disconnecting the connector and harness

5. Remove the screws (4) and remove the Rotary Motor. (Figure 2)

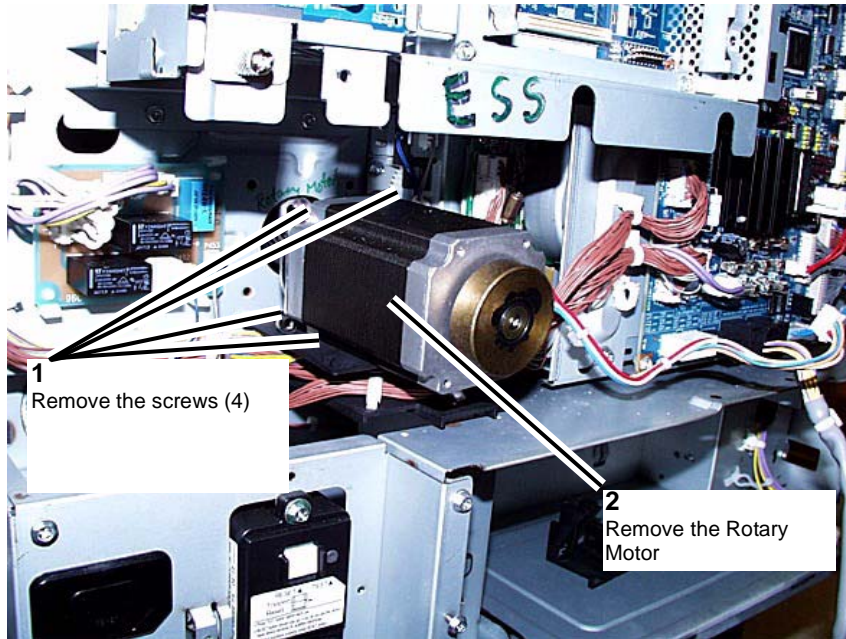


Figure 2 Removing the Rotary Motor

REP 4.2.7 Developer Material

Parts List on PL 5.1

Removal

1. Remove the Developer Housing. (REP 4.1.1)
2. Place several sheets of paper on a work surface and place the Developer Housing on the paper.

CAUTION

Be careful to avoid getting Developer Material on the Developer Housing drive gears. If some developer does contaminate the gears, clean the gears and make sure that the gears rotates smoothly.

3. Remove the screw from the cover on the Developer Housing. (Figure 1)



Figure 1 Removing the screw from the Developer Housing Cover

4. Unlatch the tabs on the Developer Housing Cover. (Figure 2)

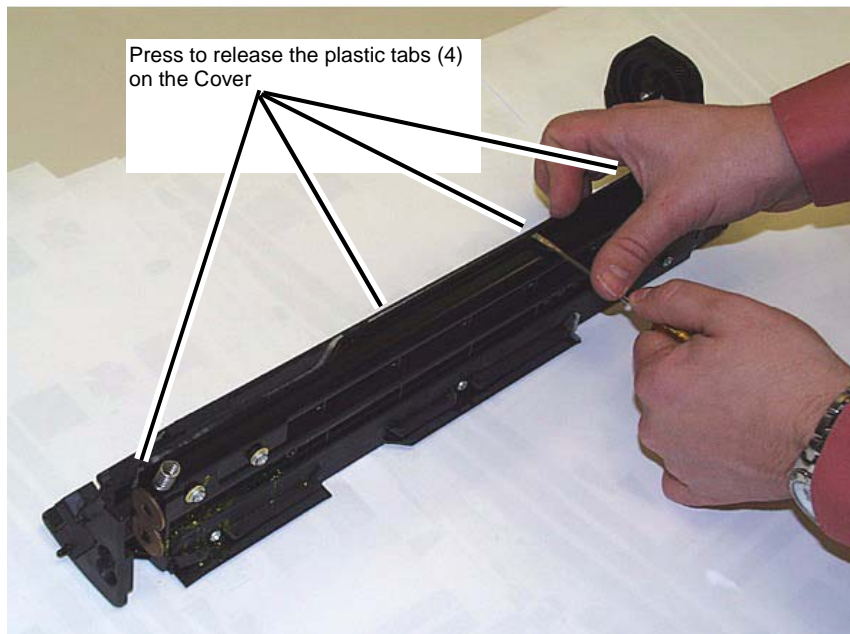


Figure 2 Removing the Developer Housing Cover

5. Remove the Developer Housing Cover. (Figure 3)

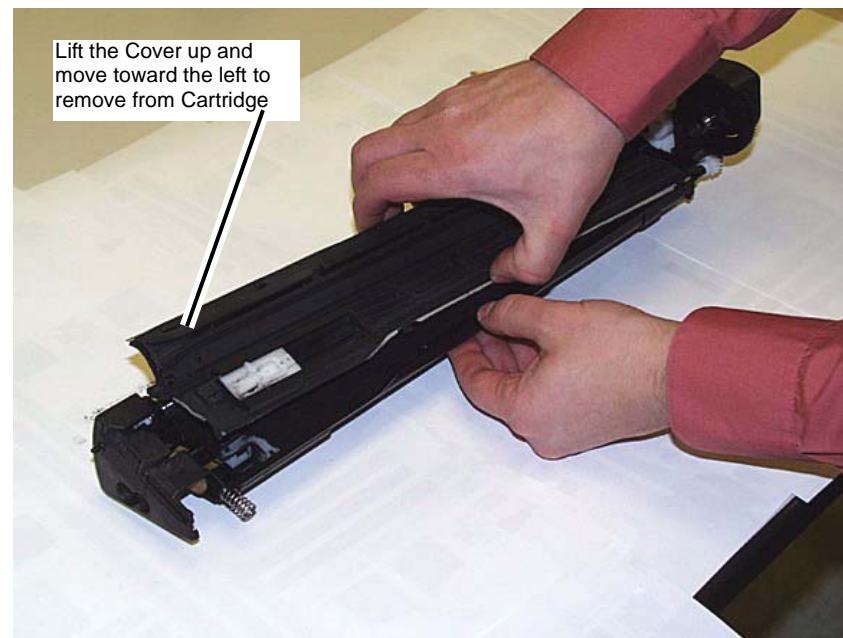


Figure 3 Removing the Developer Housing Cover

6. Remove the plastic bag from the new Developer Material package.
7. Place the Developer Housing up side down inside the plastic bag and turn the Mag Roll Gear on the end of the Cartridge to pour out the old Developer Material. (Figure 4)



Figure 4 Dumping the Developer Material

8. Vacuum the augers, mag roll and inner surfaces of the Developer Housing. (Figure 5)

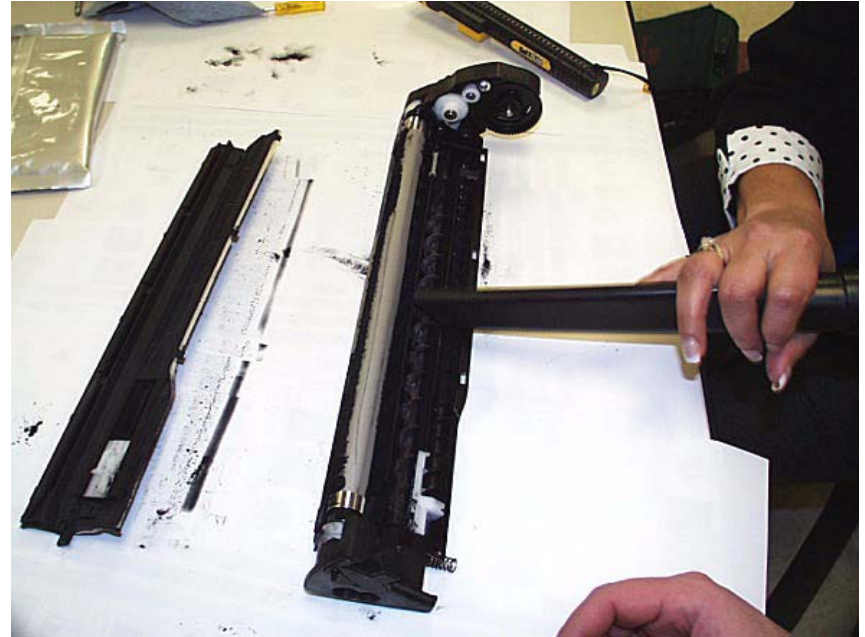


Figure 5 Vacuuming the Developer Housing

9. Pour the new Developer Material into the Developer Housing using a back and forward motion while rotating the Mag Roll. (Figure 6)



Figure 6 Adding the new Developer Material

10. Prepare to reinstall the Developer Housing cover. (Figure 7)

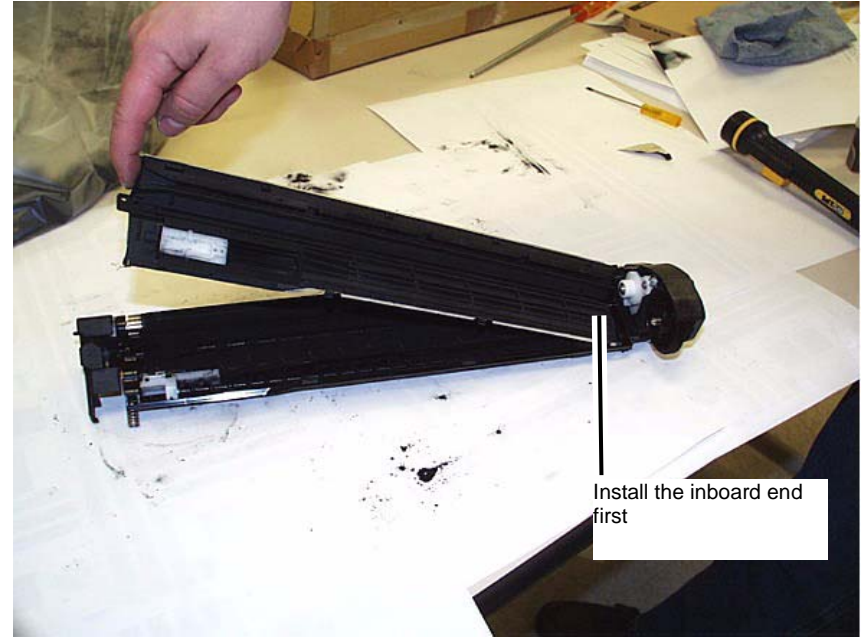


Figure 7 Preparing to reinstall the Developer Housing Cover

11. Press the Cover tabs to lock the Developer Housing Cover. (Figure 8)

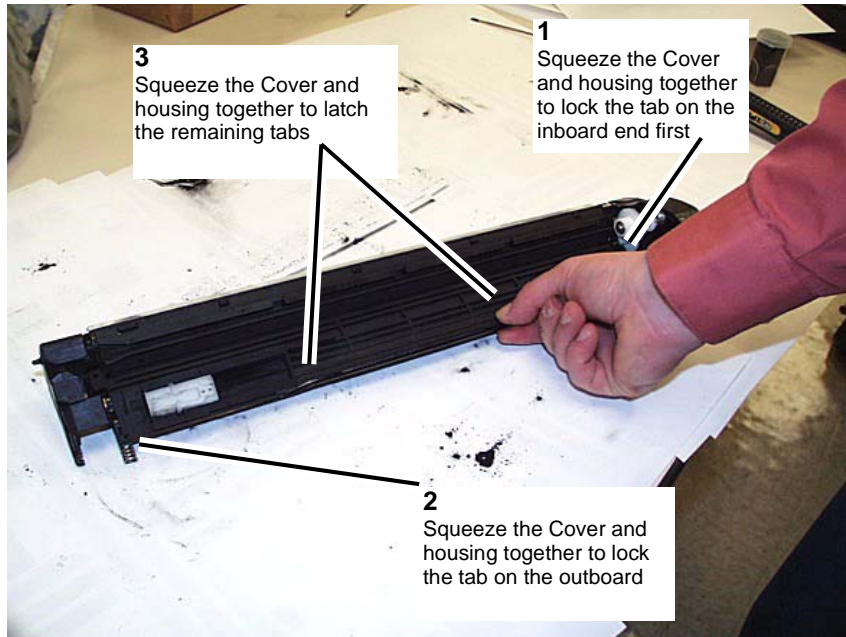


Figure 8 Locking the Cover tabs

12. Install the screw (1). (Figure 9)



Figure 9 Install the screw (1)

13. Reinstall the Developer Housing into the machine. (REP 4.1.1)
14. Enter UI Diagnostic Mode and select NVM Read/Write and reset the following NVM locations to zero.
- 752-086 = Yellow
 - 752-087 = Magenta
 - 752-088 = Cyan
 - 752-089 = Black
15. Perform Max Setup. (ADJ 9.1.2)

REP 4.2.8 2nd BTR Contact Arms

Parts List on PL PL 6.2

Removal

1. Switch off the power and disconnect the Power Cord.
2. Prepare to remove the IBT Module, (REP 4.2.2).
3. To replace the outboard 2nd BTR Contact Arm, perform the following:
 - a. Slide the IBT Module part way out of the machine.
 - b. Remove the E-ring, washer and Contact Arm.

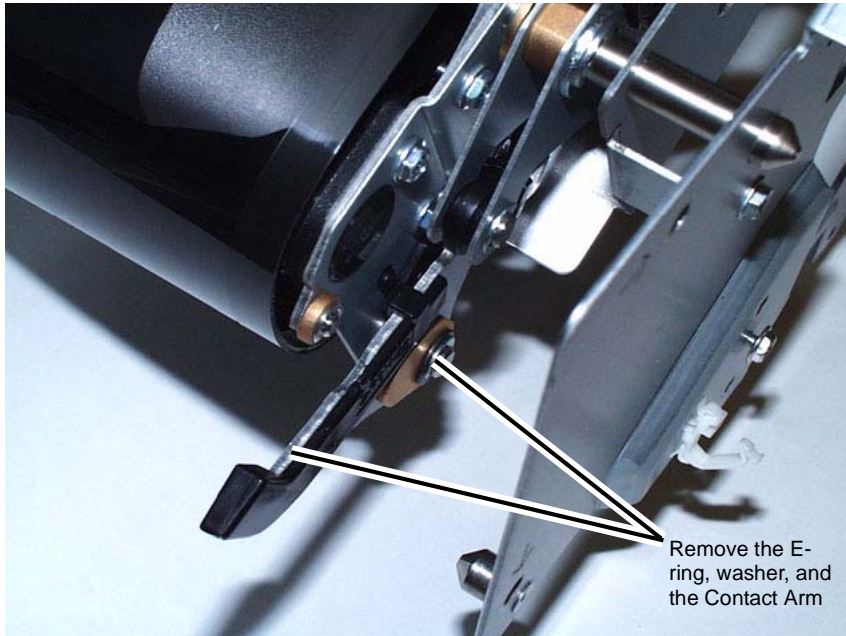


Figure 1 Removing the outboard Contact Arm

4. To replace the inboard 2nd BTR Contact Arm, perform the following:
 - a. Place the IBT Module on a work surface.
 - b. Remove the E-ring, washer and Contact Arm.

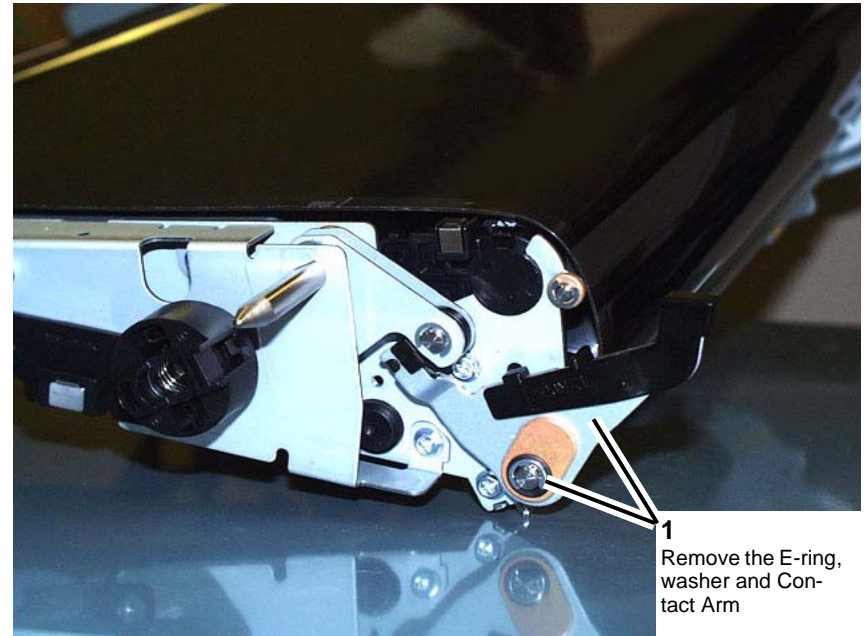


Figure 2 Removing the inboard Contact Arm

Replacement

1. Be sure that the plastic spacer on the Contact Arm shaft is properly seated as the Contact Arm is installed.

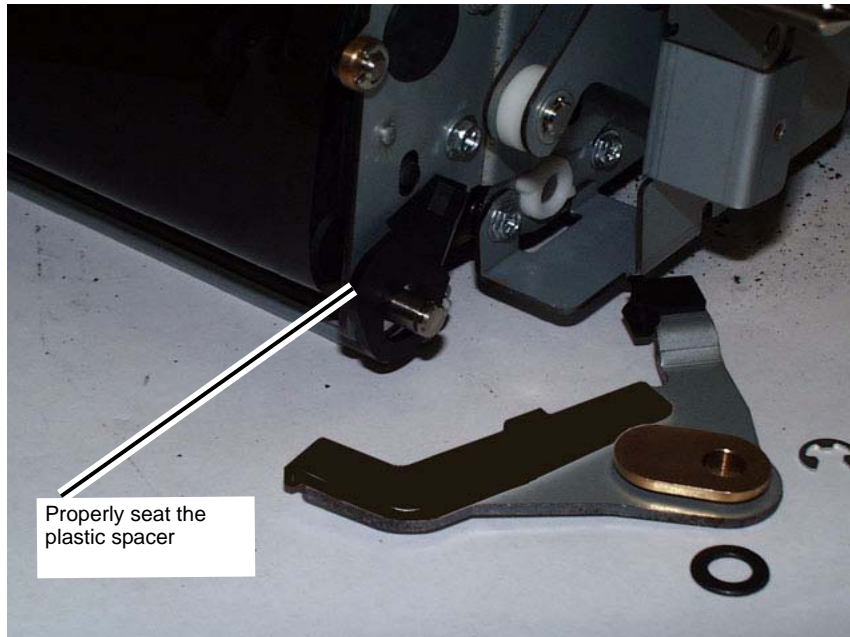


Figure 3 Properly seat plastic spacer

2. Install the 2nd BTR Contact Arm behind the cam follower on the IBT Module.

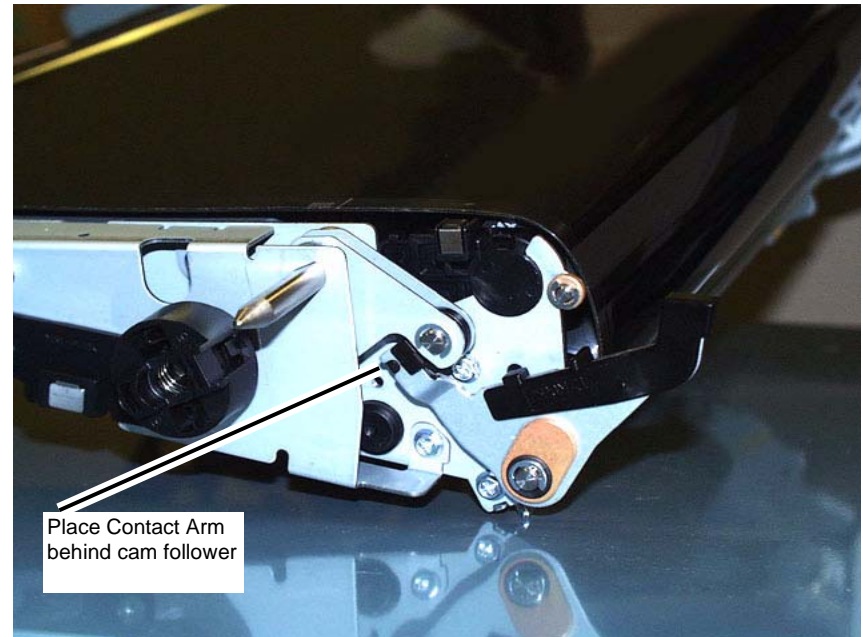


Figure 4 Placing Contact Arm behind cam follower

3. Be sure the brass bushing is installed in the Contact Arm.
4. Install the washer and E-ring.
5. Retract the Contact Arms and slide the IBT Module into the machine.
6. After the IBT Module is installed and secured with the screws (4), be sure to extend the 2nd BTR Contact Arms.

REP 4.3.1 Sensor Bar

Parts List on PL 11.1

Removal

1. Switch off the power and disconnect the Power Cord.
2. Remove the IBT Module. (REP 4.2.2)
3. Prepare to remove the Sensor Bar.
 - a. Release the harness clamps (2).
 - b. Disconnect the connectors (2).
 - c. Remove the screw (1).

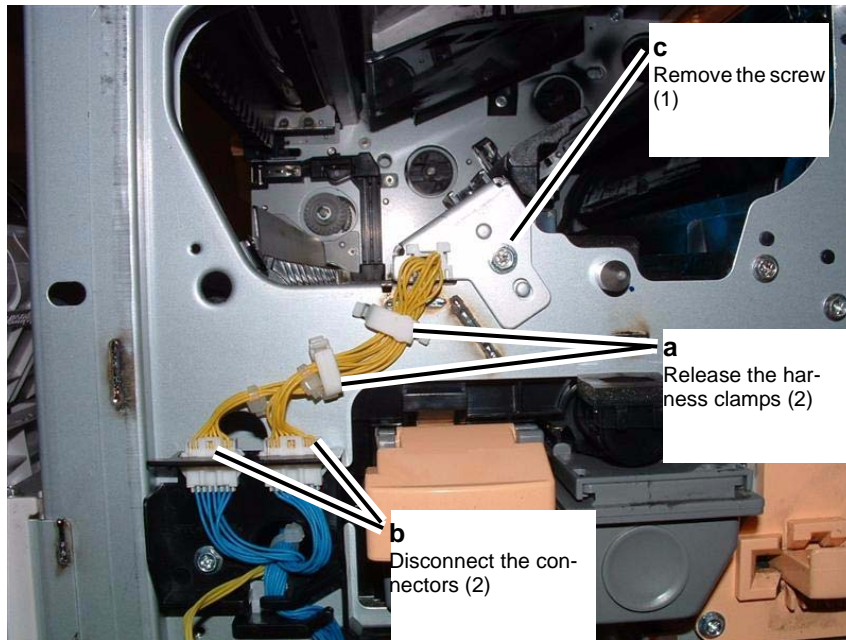


Figure 1 Preparing to remove the Sensor Bar

4. Remove the Sensor Bar (PL 11.1).

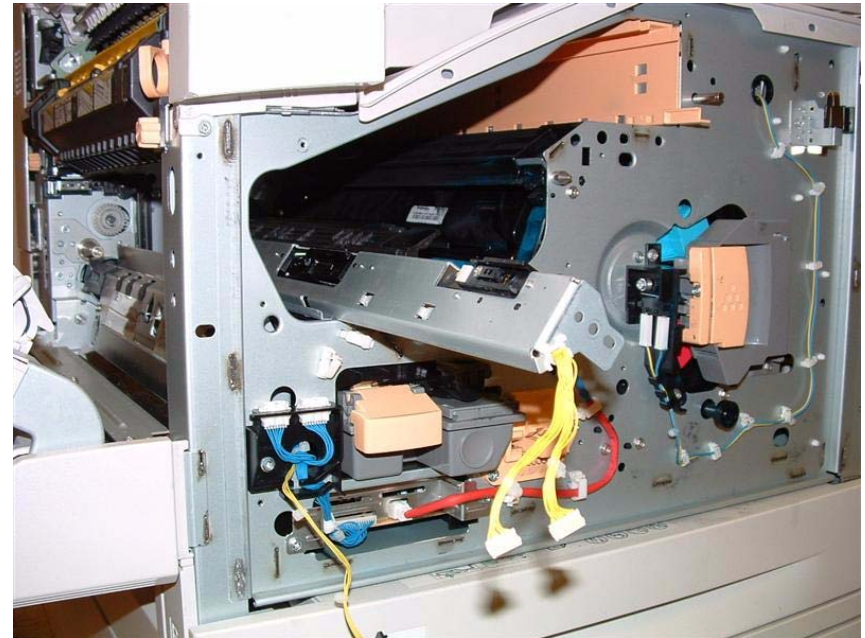


Figure 2 Removing the Sensor Bar

REP 5.1.1 Fuser Unit

Parts List on PL 7.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check the Job Status to ensure that there are no jobs in progress.

CAUTION

Do not start servicing until the Fuser has cooled down.

1. Switch off the power.
2. Open the L/H Upper Cover Assembly. (PL 2.6).
3. Remove the Fuser Unit. (Figure 1)
 1. Loosen the knobs (2).
 2. Pull the Fuser by the handles (2).

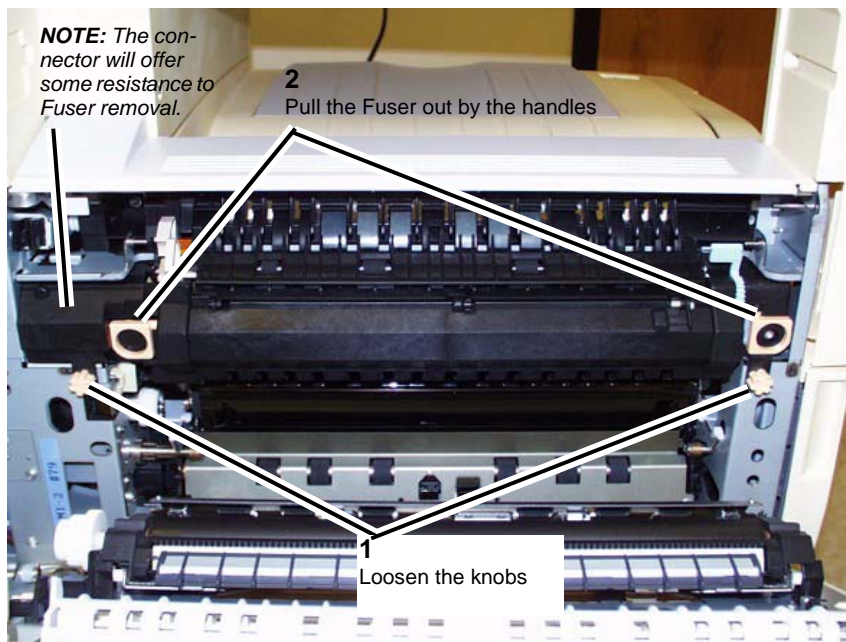


Figure 1 Removing the Fuser

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing the Fuser;
 - a. Press the **Machine status** button.
 - b. Select **Supplies**.

- c. Scroll to and select **Fuser Smart Kit**.
- d. Select **Reset Counter**.

REP 6.1.1 Exit2 + OCT2

Parts List on PL 8.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Open the L/H Upper Cover.
2. Remove the Exit2 + OCT2. (Figure 1)
 1. Lift up the front and rear levers and remove the Exit2 + OCT2.

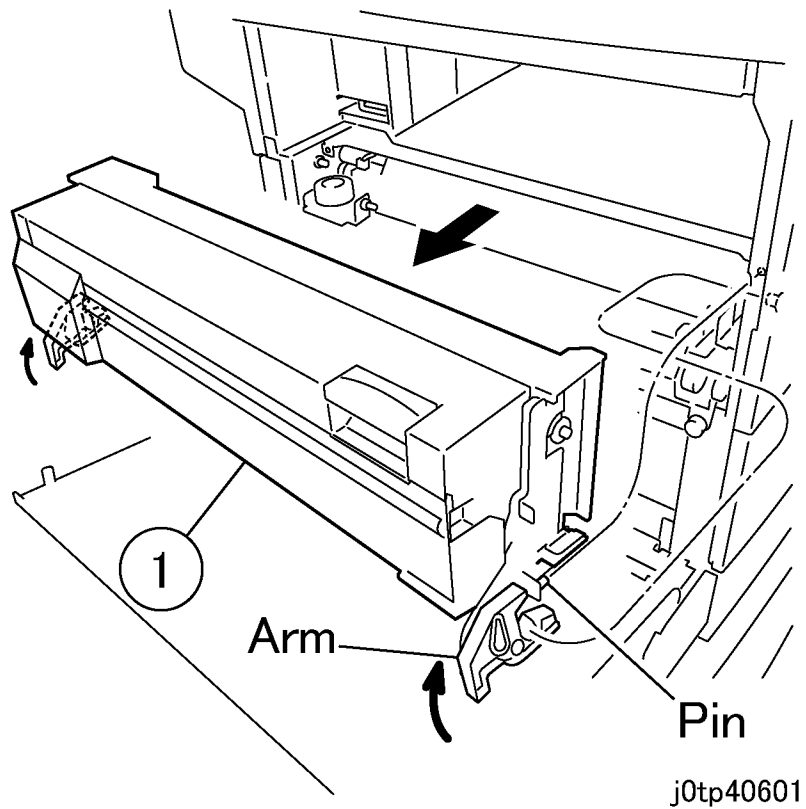


Figure 1 Removing the Exit2+OCT2 (j0tp40601)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.1.1 MSI Assembly

Parts List on PL 9.1

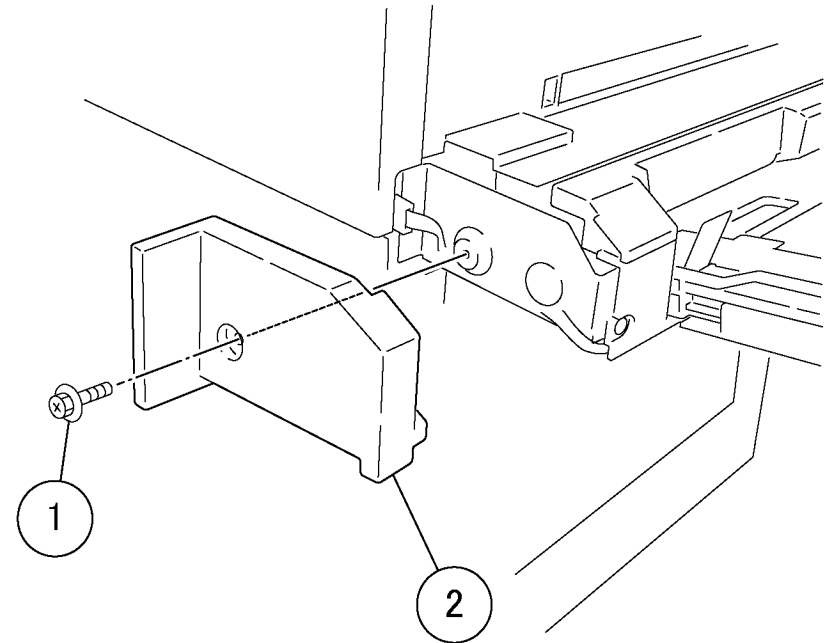
Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the MSI Rear Cover. (Figure 1)

1. Remove the screw.
2. Remove the MSI Rear Cover.



j0st40706

Figure 1 Removing the MSI Rear Cover

2. Disconnect the connector. (Figure 2)
 1. Release the Wire Harness from the clamp.
 2. Release the Wire Harness from the clamp.
 3. Disconnect the connector.

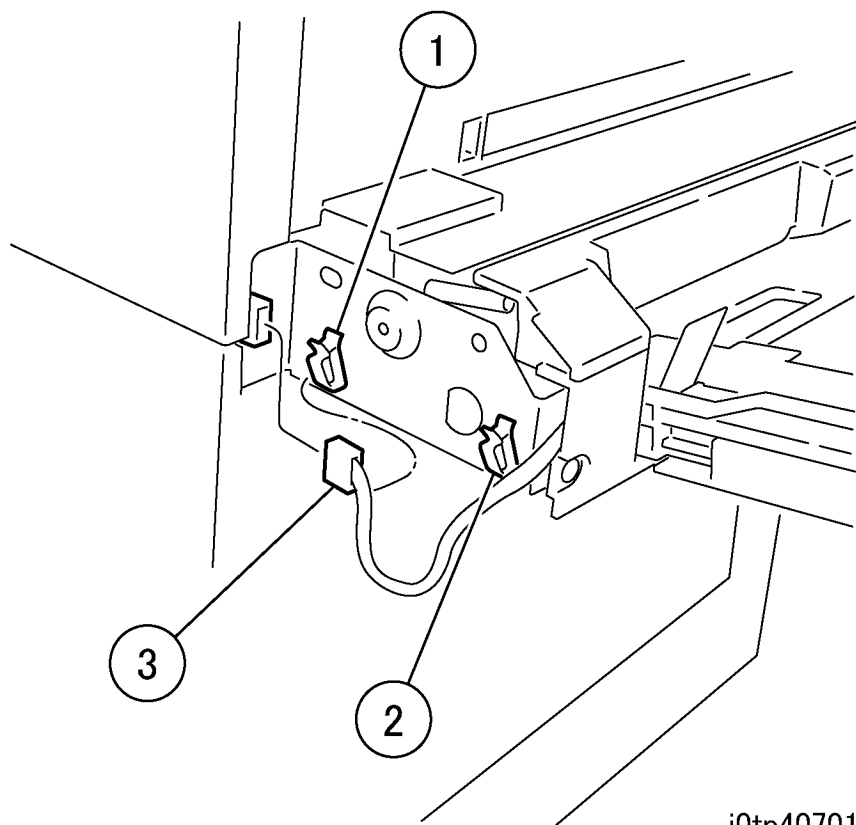


Figure 2 Disconnecting the connector

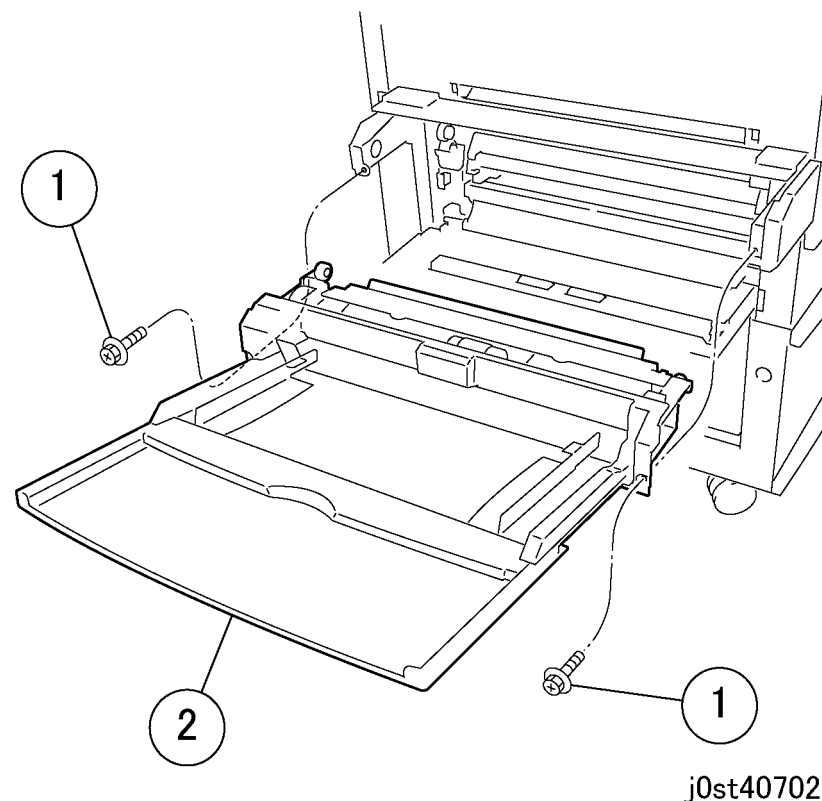


Figure 3 Removing the MSI Assembly

3. Remove the MSI Assembly. (Figure 3)
 1. Remove the screws (2).
 2. Remove the MSI Assembly.

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.2.1 MSI Feed Roll/Retard Pad

Parts List on PL 9.2

Removal

NOTE: When replacing the MSI Feed Roll/Retard Pad, enter the Diag. mode and clear the counter for MSI Feed.

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

NOTE: The MSI Feed Roll and MSI Retard Pad must both be replaced at the same time.

1. Remove the MSI Assembly. (REP 7.1.1)
2. Remove the plate. (Figure 1)
 1. Remove the screws (2).
 2. Remove the plate.

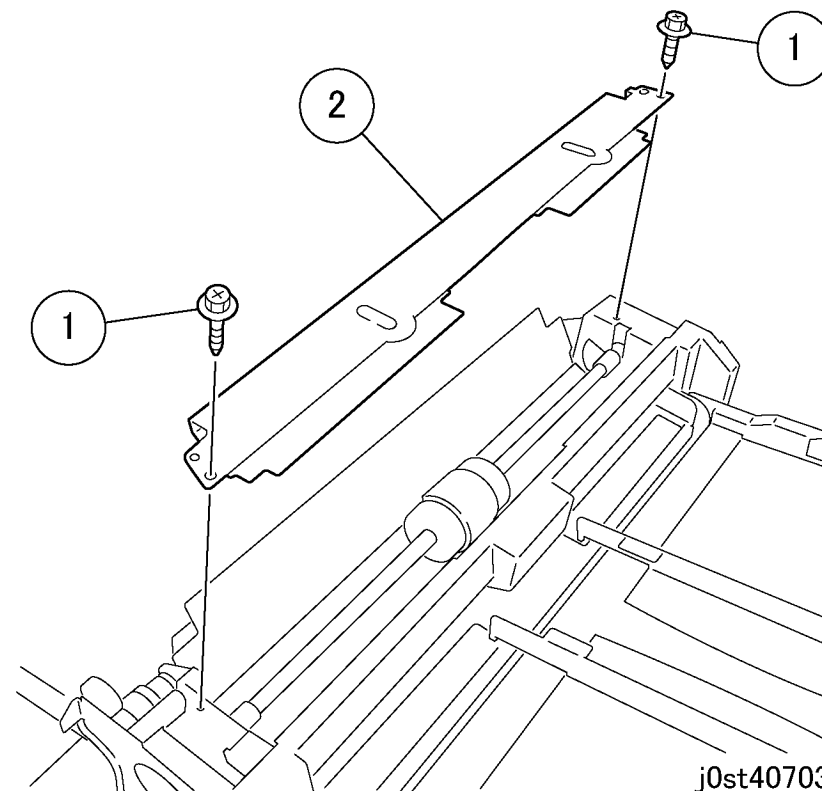


Figure 1 Removing the plate

3. Remove the MSI Feed Roll. (Figure 2)
 1. Remove the ends of the roll and slide them out.
 2. Remove the ends of the roll and slide them out.
 3. Slide the MSI Feed Roll to the front and remove it.

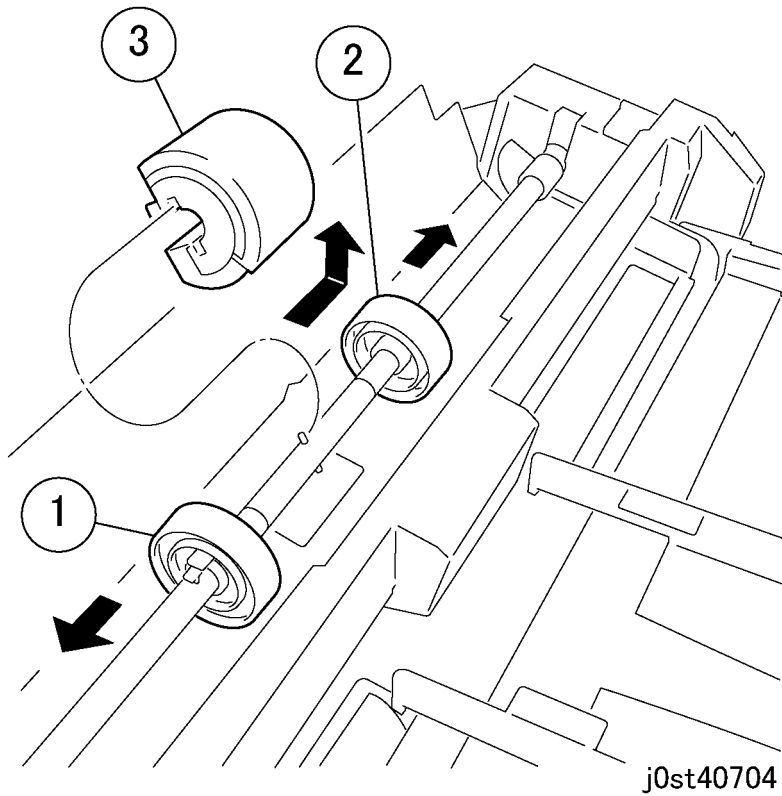


Figure 2 Removing the MSI Feed Roll

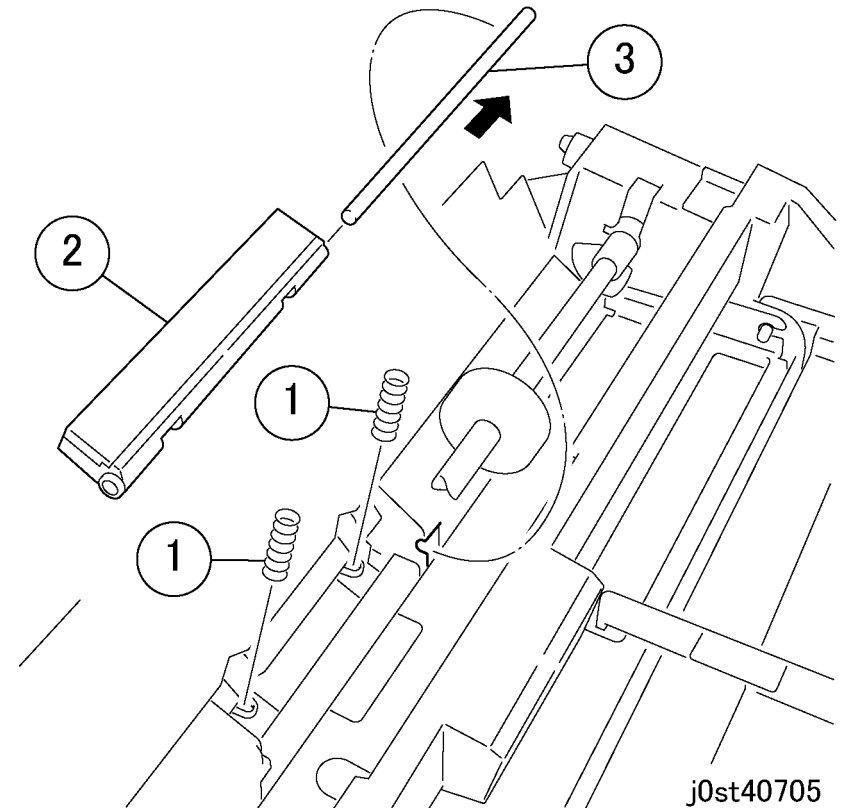


Figure 3 Removing the MSI Retard Pad

4. Remove the MSI Retard Pad. (Figure 3)
 1. Remove the springs (2).
 2. Remove the MSI Retard Pad.
 3. Pull out the shaft.

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.1.1 MCU PWB

Parts List on PL 11.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Static electricity may damage electrical parts.

Always wear a wrist strap to protect electrical parts from static damage. If a wrist strap is not available, touch some metallic parts before servicing to discharge the static electricity.

CAUTION

Perform GP 4 Part 2 after each PWB is replaced. To maintain the integrity of the serial number and billing data **NEVER** replace all of the PWBs at once. Replacing all three PWBs at once will cause unrecoverable NVM corruption. If a PWB needs replacing, only replace **ONE AT A TIME** and perform this procedure after each one is replaced. If the problem is not resolved, reinstall the original PWB and re-enter the serial number (if necessary) before attempting to replace a different PWB.

1. Whenever the MCU PWB is being replaced, go to GP 4 Replacing Billing PWBs and perform PART 1 to document Customer Settings and Machine Settings.
2. Switch off the power and disconnect the power cord.
3. Remove the ESS Cover, the MCU Cover and the Rear Lower Cover. (REP 10.2.1)
4. Disconnect the connectors from the MCU PWB. (Figure 1, Figure 2)

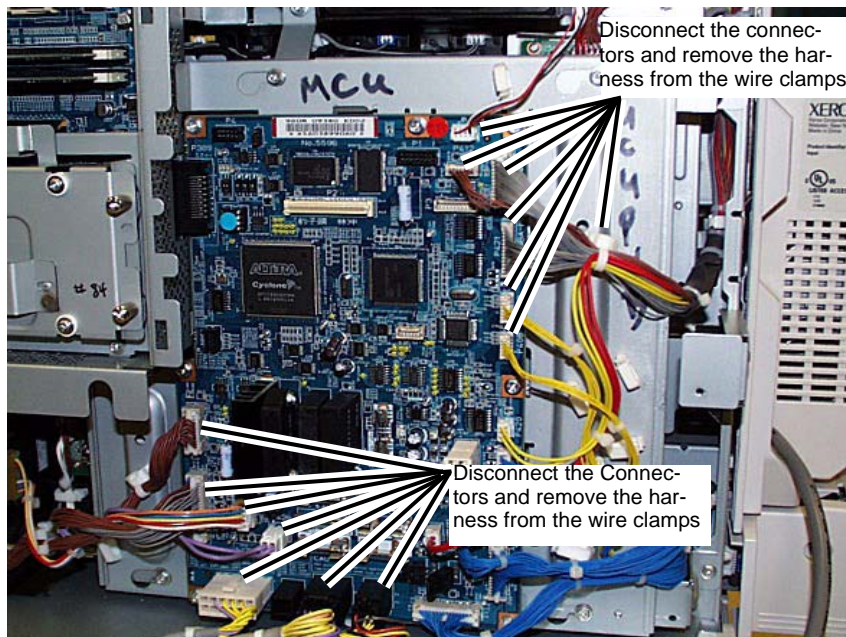


Figure 1 Disconnecting 13 of the connectors on the MCU PWB

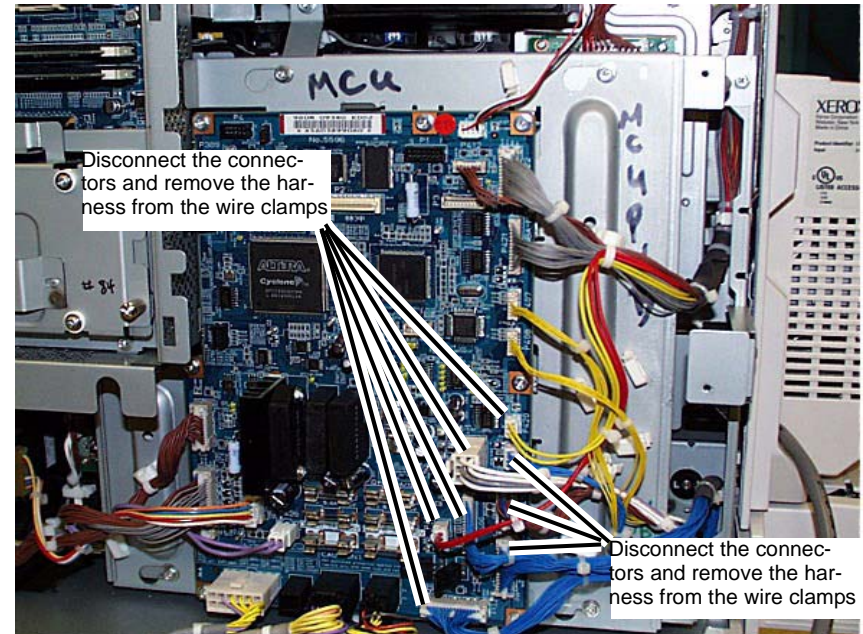


Figure 2 Disconnecting the remaining 8 connectors on the MCU PWB

5. Loosen the screws (5) on the MCU PWB and slide the MCU to the right to disconnect the P 389 connector. (Figure 3)

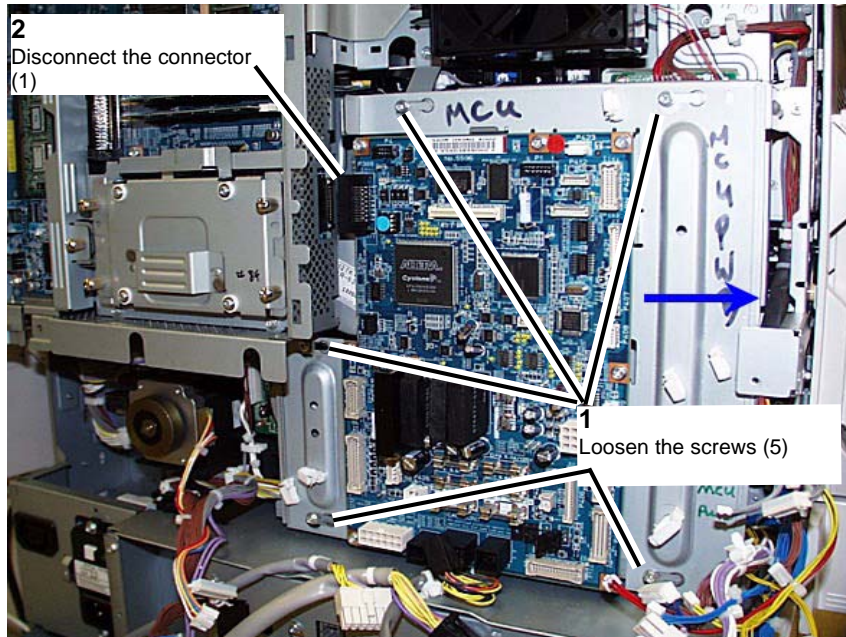


Figure 3 Disconnecting the P 389 connector on the MCU PWB

6. Remove the MCU PWB.

CAUTION

Pin breakage occurs if the EPROM is carelessly removed.

NOTE: Be sure to notice the orientation of the EPROM in the connector on the PWB. Be sure to install the EPROM in the same orientation.

7. If a new MCU PWB will be installed, remove EPROM from old MCU PWB and save for installation on new MCU PWB. (Figure 4)

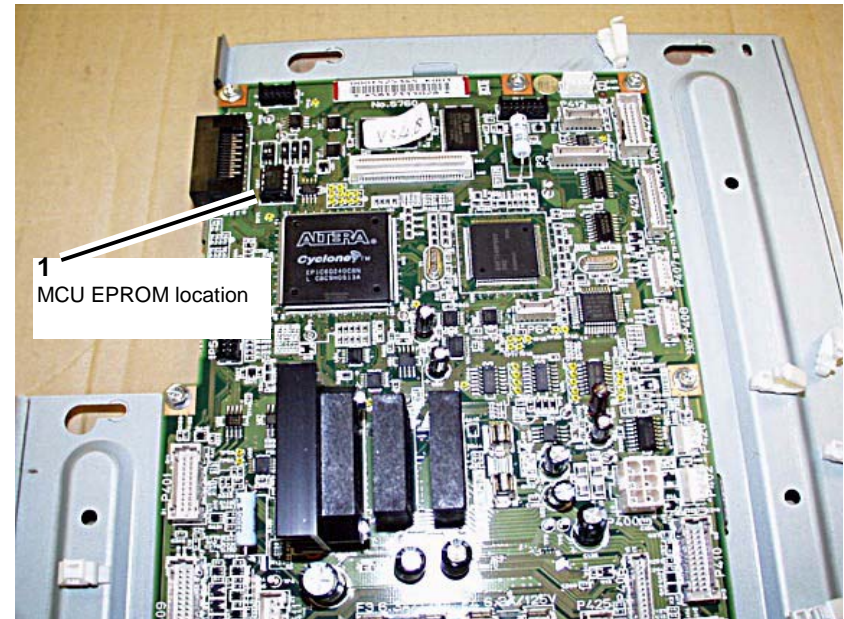


Figure 4 MCU PWB EPROM Location

Replacement

1. If installing the same MCU PWB that was just removed, use the reverse of the removal procedure to install.
2. If replacing the MCU PWB with a new MCU PWB continue with these steps.

CAUTION

Pin breakage occurs if the EPROM is carelessly replaced.

3. Install the EPROM from the old MCU PWB on the new MCU PWB. (Figure 5)

REP 9.1.2 MCU PWB EPROM

Removal

CAUTION

A disabled machine with loss of serialization and billing data occurs if both the ESS PWB with EPROM and the MCU PWB with EPROM are replaced at the same time.

NOTE: Refer to REP 9.1.1 to remove or replace the MCU PWB EPROM (Figure 1).

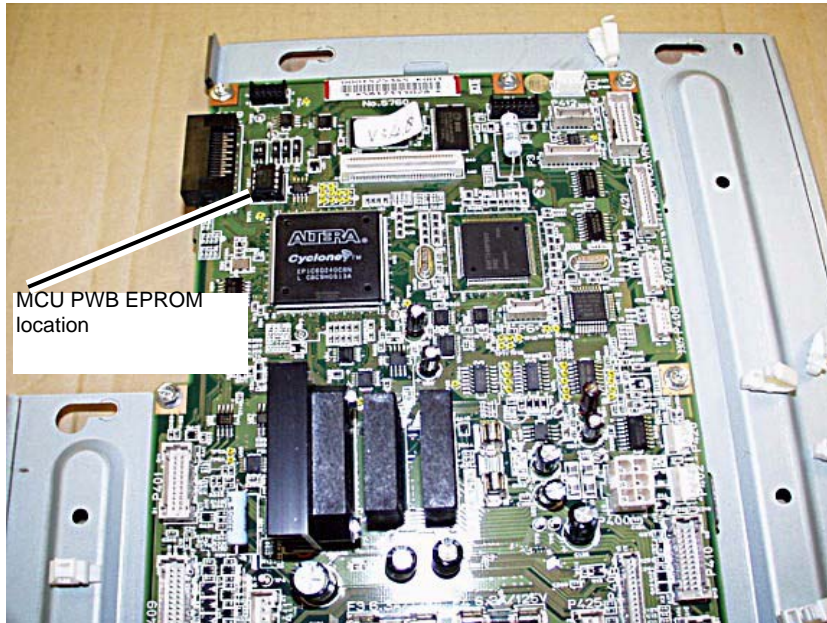


Figure 5 MCU PWB EPROM Location

4. Install the MCU PWB and connect P/Js.
5. Switch on the machine power.
6. If a 041-340 Fault occurs, continue with the following step.
7. Load the current IOT software level on to the MCU PWB and use the Single File down load.
8. Perform PART 2 of GP 4 Replacing Billing PWBs.

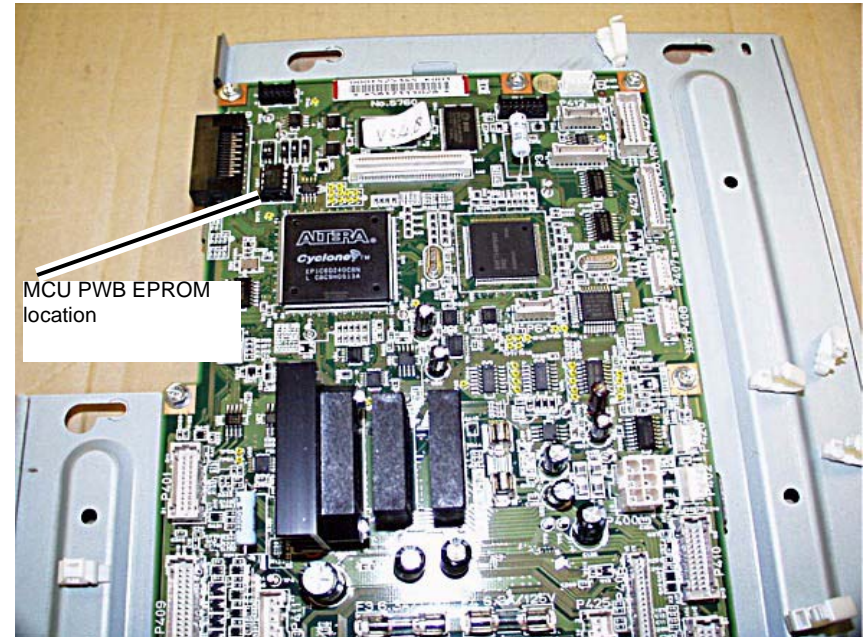


Figure 1 MCU PWB EPROM Location

REP 9.2.1 ESS PWB

Parts List on PL 11.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Static electricity may damage electrical parts.

Always wear a wrist strap to protect electrical parts from static damage. If a wrist strap is not available, touch some metallic parts before servicing to discharge the static electricity.

CAUTION

Perform GP 4 Part 2 after each PWB is replaced. To maintain the integrity of the serial number and billing data **NEVER** replace all of the PWBs at once. Replacing all three PWBs at once will cause unrecoverable NVM corruption. If a PWB needs replacing, only replace **ONE AT A TIME** and perform this procedure after each one is replaced. If the problem is not resolved, reinstall the original PWB and re-enter the serial number (if necessary) before attempting to replace a different PWB.

1. Go to GP 4 Replacing Billing PWBs and perform PART 1 to document Customer Settings and Machine Settings.
2. Switch off the power and disconnect the power cord.
3. Remove the ESS Cover, the MCU Cover and the Rear Lower Cover. (REP 10.2.1)
4. Disconnect all the connectors (5) on the ESS PWB. (Figure 1)

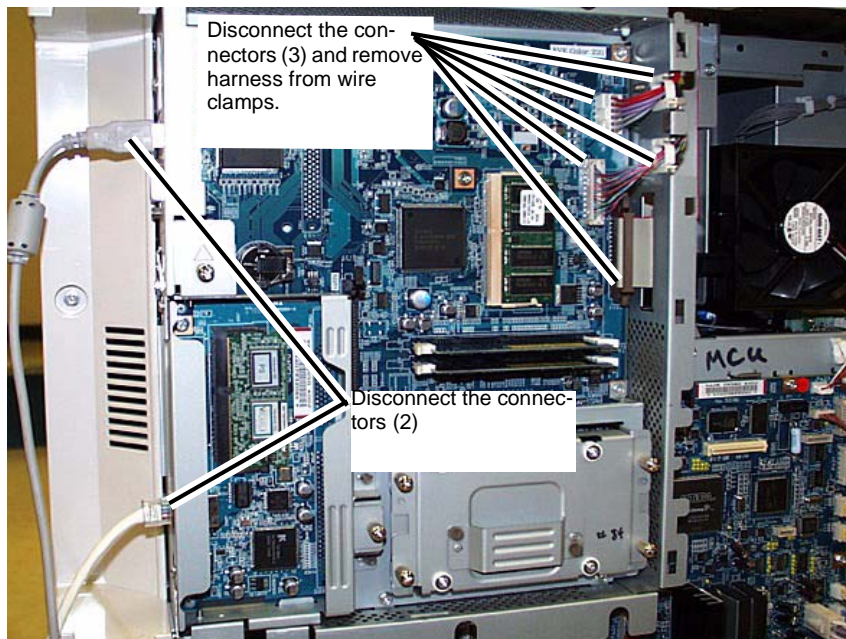


Figure 1 Disconnecting the connectors on the ESS PWB

5. Disconnect the connectors from the MCU PWB. (Figure 2, Figure 3)

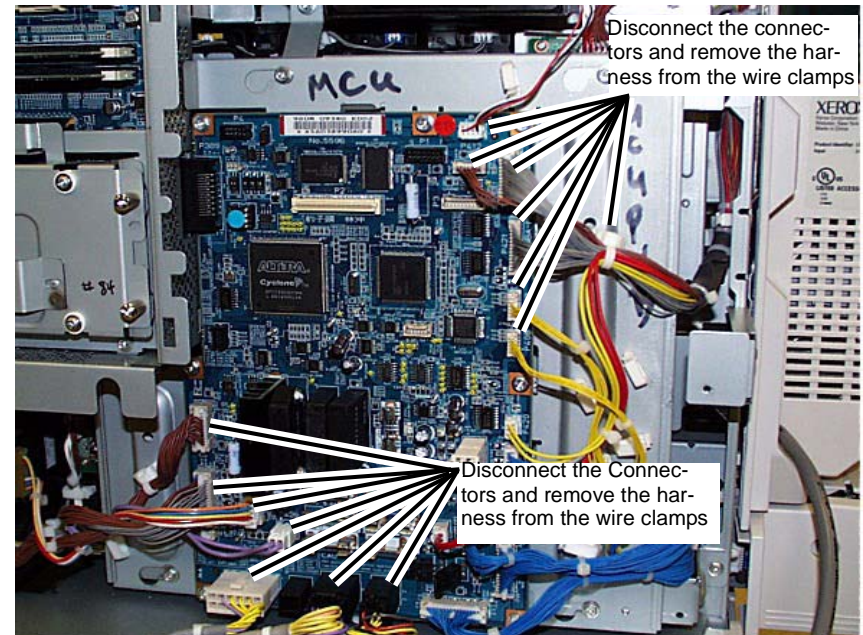


Figure 2 Disconnecting 13 of the connectors on the MCU PWB

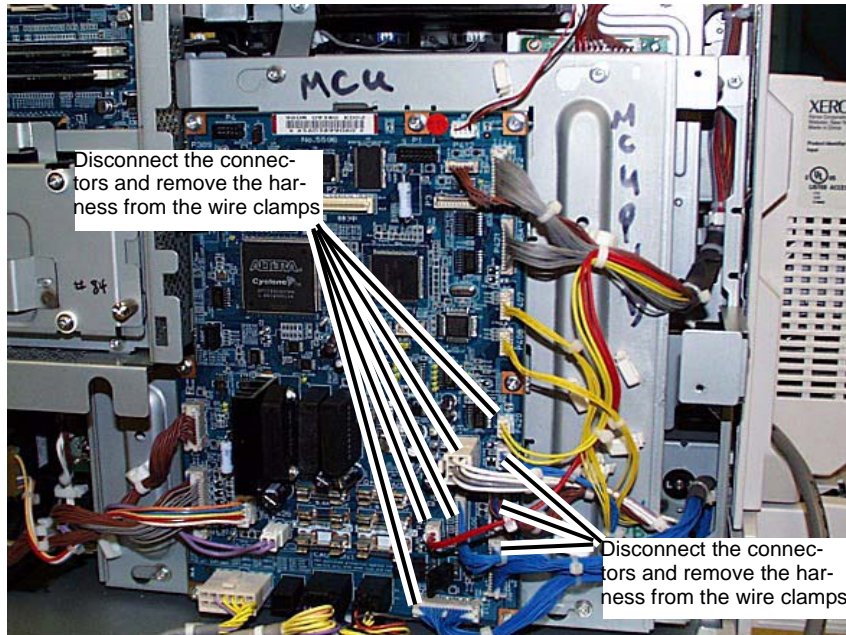


Figure 3 Disconnecting the remaining 8 connectors on the MCU PWB

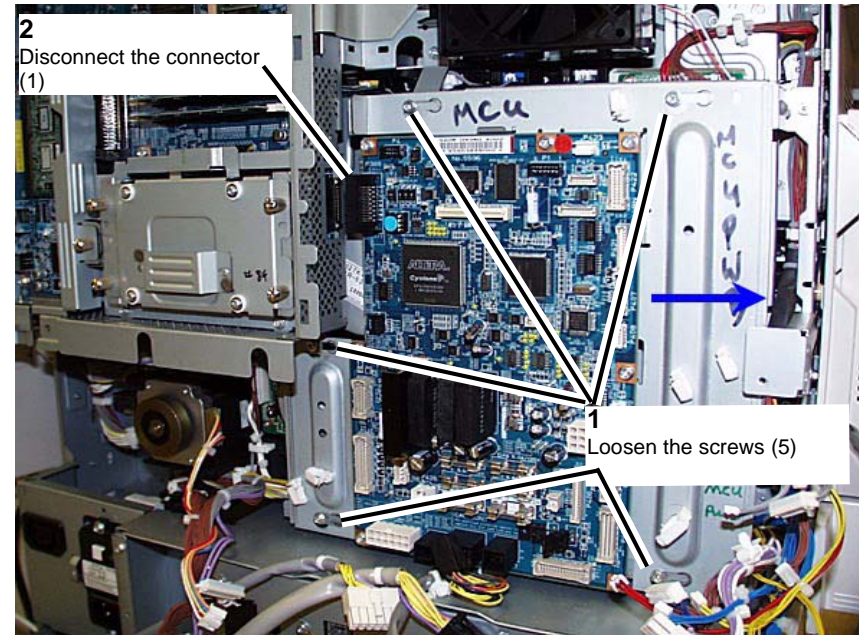


Figure 4 Disconnecting the P 389 connector on the MCU PWB

6. Loosen the screws (5) on the MCU PWB and slide the MCU to the right to disconnect the P 389 connector. (Figure 4)
7. Remove the Rear Top Cover. (Figure 5)

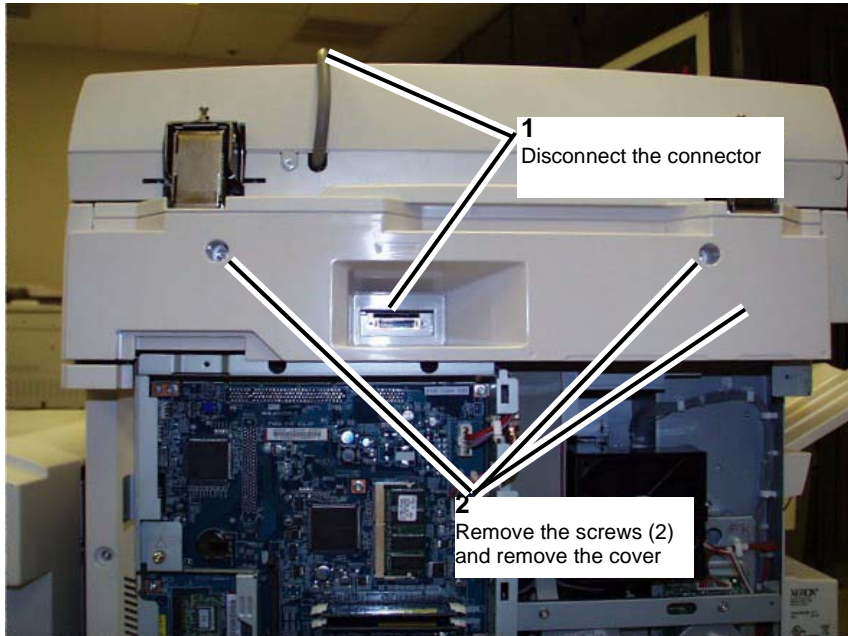


Figure 5 Remove the Rear Top Cover

8. Remove the Right Rear Side Panel. (Figure 6)

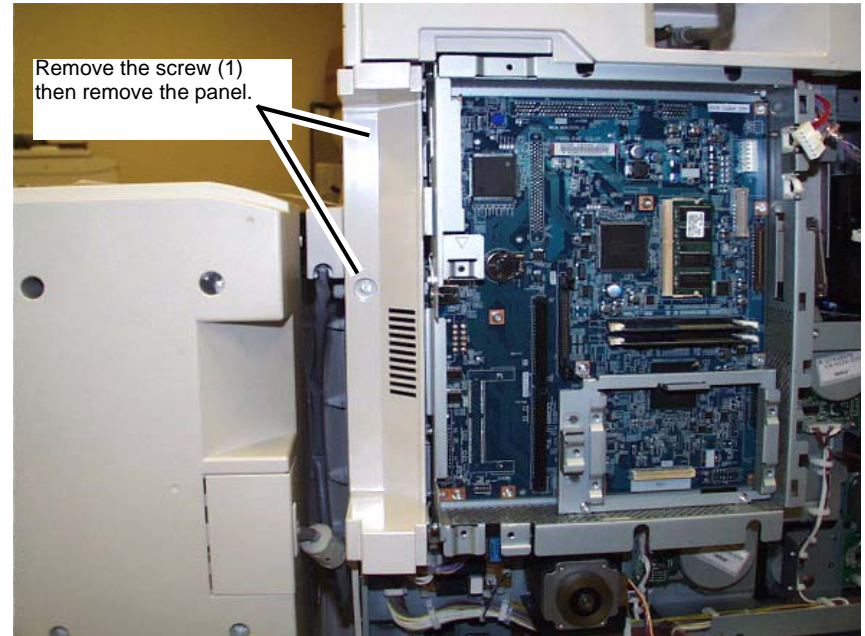


Figure 6 Removing the Right Rear Side Panel

9. Loosen the upper screws (2) from the ESS PWB Chassis. (Figure 7)

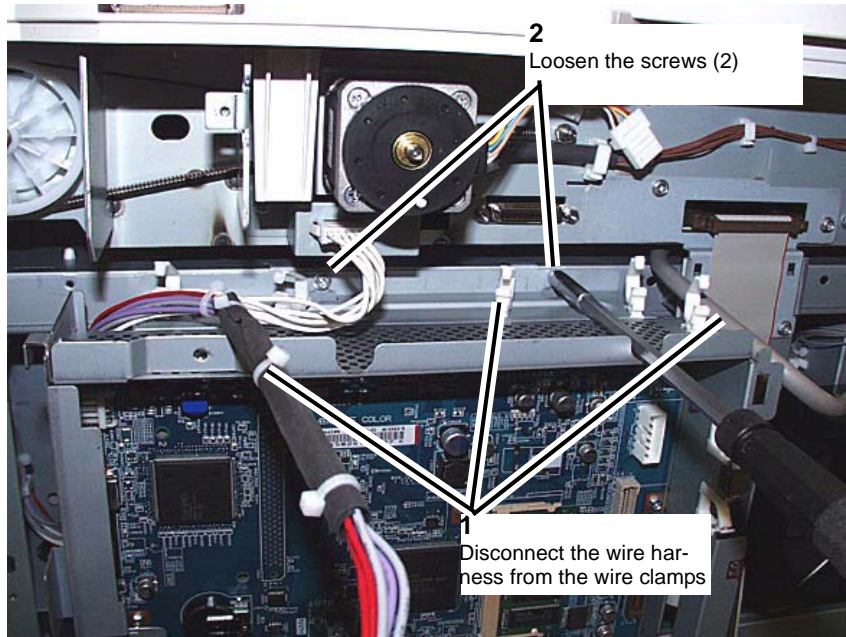


Figure 7 Loosen the upper screws (2) from the ESS PWB Chassis

10. Loosen the Lower screws (2) from the ESS PWB Chassis. (Figure 8)

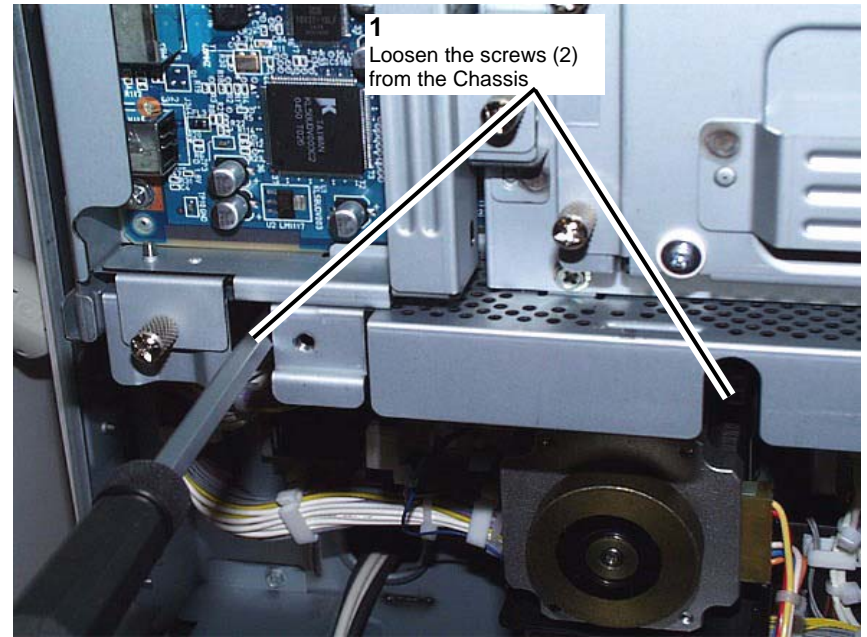


Figure 8 Loosen the screws (2) from the ESS PWB Chassis

11. Lift up the ESS PWB Chassis and remove it from the machine.
12. If present, remove the Printer PWB from the ESS Chassis. (REP 9.2.4) (PL 11.2).
 - a. Loosen thumbscrews and pullout Printer PWB to disconnect it from the ESS PWB.
13. Remove the ESS Panel. (PL 11.2)
14. Remove the HDD Base Chassis. (PL 11.2)
15. Remove the screws and remove ESS PWB.

CAUTION

Pin breakage occurs if the EPROM is carelessly removed.

NOTE: Be sure to notice the orientation of the EPROM in the connector on the PWB. Be sure to install the EPROM in the same orientation.

16. If a new ESS PWB will be installed, remove the DDR DIMM (2), the PC133 DIMM (1) and the EPROM from the old ESS PWB and save for installation on new ESS PWB. (Figure 9)

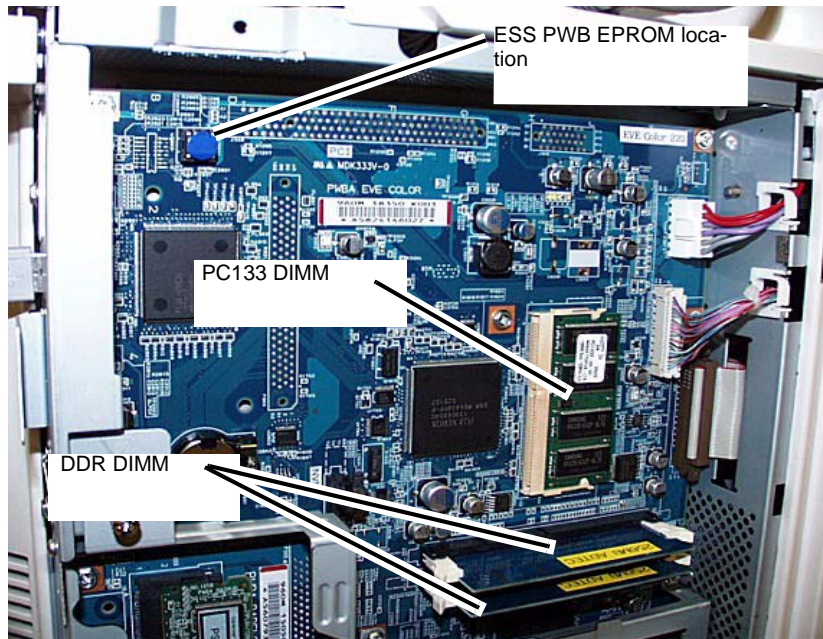


Figure 9 DDR DIMM, PC133 DIMM and ESS PWB EPROM Location

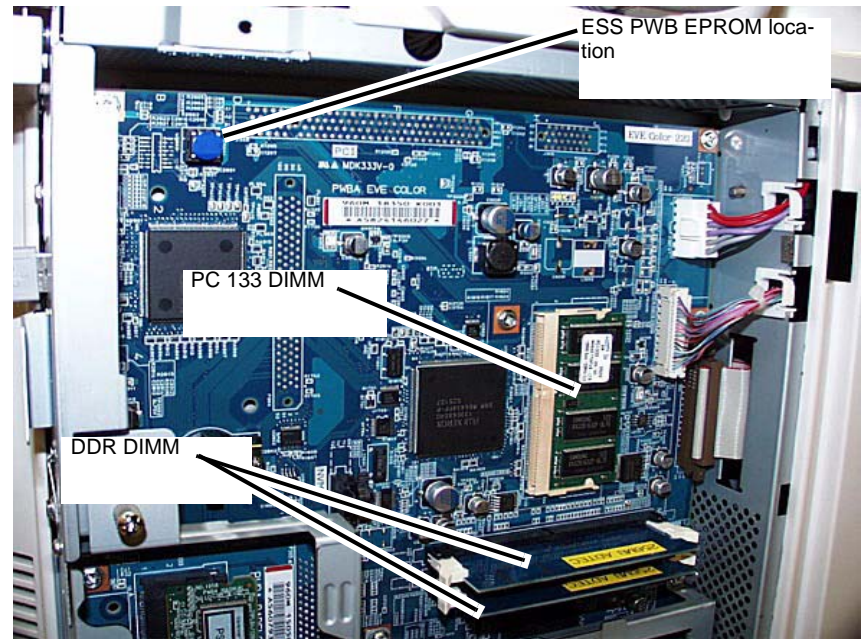


Figure 10 ESS PWB EPROM Location

Replacement

1. If installing the same ESS PWB that was just removed, use the reverse of the removal procedure to install.
2. If replacing the ESS PWB with a new ESS PWB, continue with the following steps.

CAUTION

Pin breakage occurs if the EPROM is carelessly replaced.

3. Install the **DDR DIMM**, **PC133 DIMM** and EPROM from the old ESS PWB on to the new ESS PWB. (Figure 10)

4. Install the ESS PWB and Panel into the Chassis.
5. Install the Base Chassis and then the HDD PWB and tighten the thumbscrews.
6. If present, install the Printer PWB.
 - a. Install Printer PWB while connecting it to ESS PWB and tighten thumbscrews.
7. Install the ESS PWB Chassis into the machine and connect all the connectors.
8. Slide the MCU PWB into position and tighten the screws.
9. Connect all the connectors to the MCU PWB.
10. Switch on the power.
11. If a fault occurs (116-334) switch off then switch on the power.
12. If a Serial Number, Billing Meter Mismatch fault (Speed Mismatch fault) occurs (124-315), disregard and continue.
13. Perform PART 2 of GP 4 Replacing Billing PWBs.
14. Reinstall the Customer Settings. (Sys User settings will be affected).

REP 9.2.2 ESS PWB EPROM

Parts List on PL 11.2

Removal

CAUTION

A disabled machine with loss of serialization and billing data occurs if both the ESS PWB with EPROM and the MCU PWB with EPROM are replaced at the same time.

NOTE: Refer to REP 9.2.1 ESS PWB to remove or reinstall the ESS PWB EPROM (Figure 1).

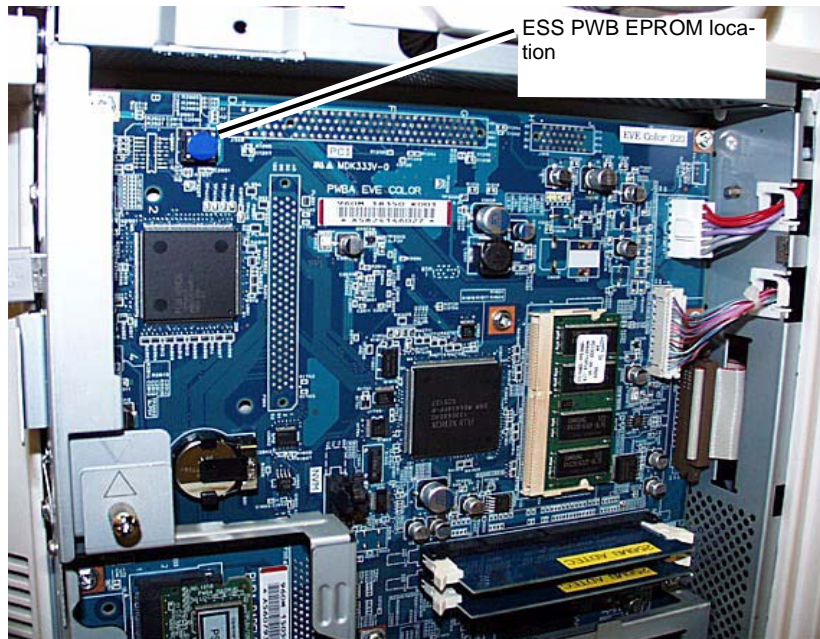


Figure 1 ESS PWB EPROM Location

REP 9.2.3 Power Supply PWB

Parts List on PL 9.1

Removal

1. Switch off the power and disconnect the Power Cord.
2. Remove the Right Side Cover. (REP 10.2.3)
3. Remove the Power Supply PWB. (Figure 1)
 - a. Disconnect the connectors (9).

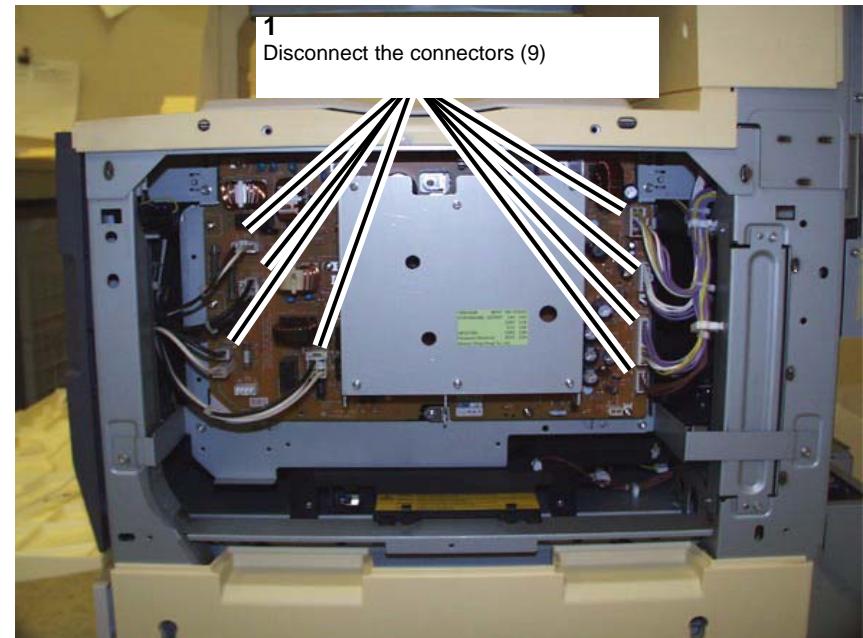


Figure 1 Removing the Power Supply PWB

- b. Loosen the screws (4). (Figure 2)
- c. Lift the Power Supply PWB up and remove it.

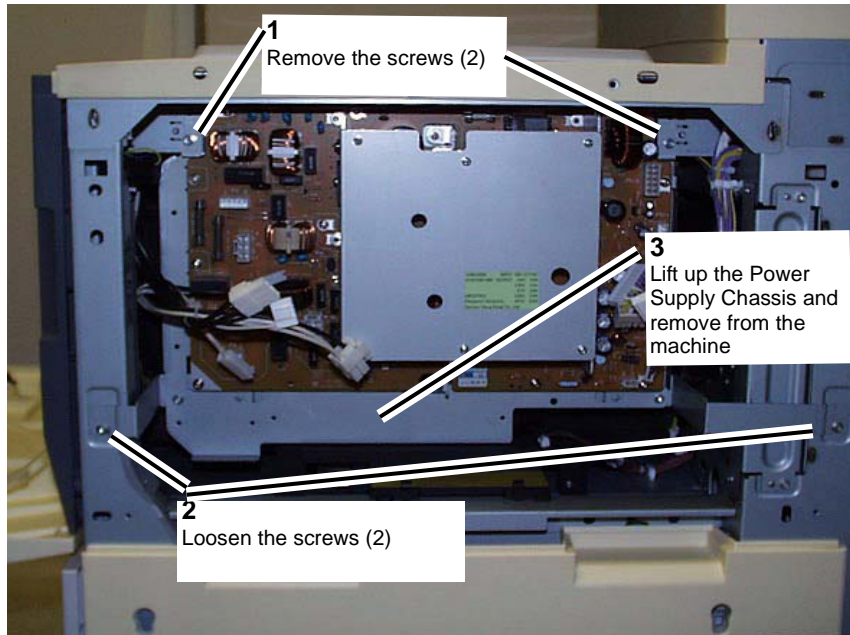


Figure 2 Removing the Power Supply PWB

REP 9.2.4 Print Chassis Assembly

Parts List on PL 11.2

Removal

1. Disconnect the Ethernet cable.
2. Switch off the power and disconnect the power cord.
3. Remove the ESS Cover. (REP 10.2.1)
4. Remove the Printer Chassis Assembly by loosening the thumb screws (3). (PL 11.2)

Replacement

1. Install the Printer Chassis Assembly in reverse order of removal.
2. Connect the power cord and switch on the power.
3. Verify that the machine has the correct level of ESS Controller software. If necessary, upgrade the software to the correct version.

REP 9.2.5 PS DIMM

Parts List on PL 11.2

Removal

1. Disconnect the Ethernet cable.
2. Switch off the power and disconnect the power cord.
3. Remove the ESS Cover. (REP 10.2.1)
4. Remove the PS DIMM by gently releasing the 2 plastic clips that hold the DIMM in place. When released, the DIMM will 'pop up' at an angle to the print controller PWBA. (PL 11.2)

Replacement

NOTE: *Ensure that the PS DIMM is seated properly and that the 2 clips engage the edge of the DIMM.*

1. Install the PS DIMM in reverse order of removal.
2. Connect the power cord and switch on the power.
3. Verify that the machine has the correct level of ESS Controller software. If necessary, upgrade the software to the correct version.

REP 10.1.1 Top Cover Assembly

Parts List on PL 12.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Toner Cartridge. (REP 4.1.2)
2. Remove the Front Left Cover. (Figure 1)
 1. Remove the screw.
 2. Remove the Front Left Cover.

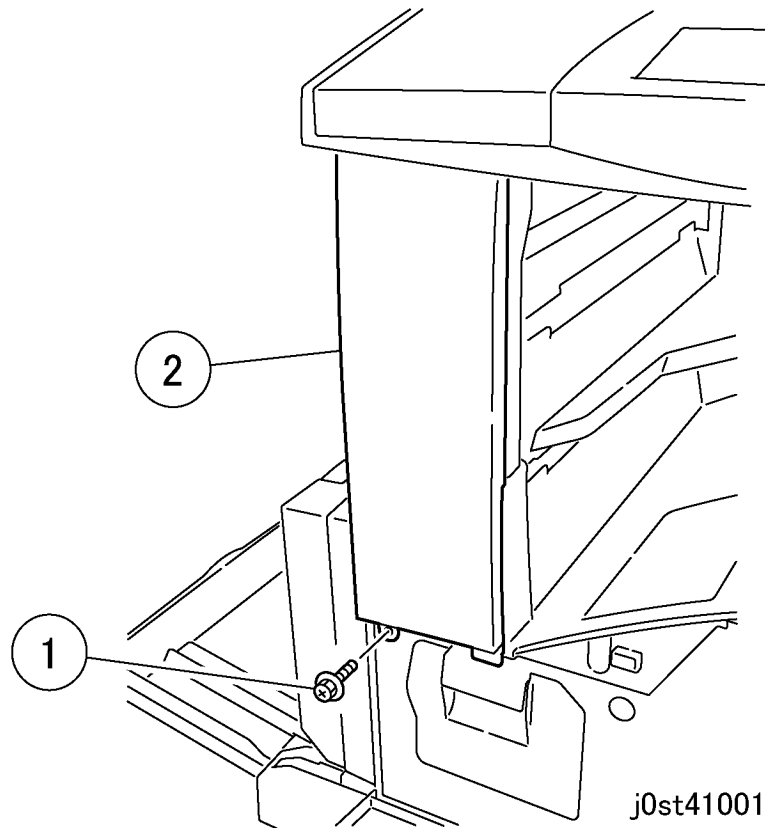
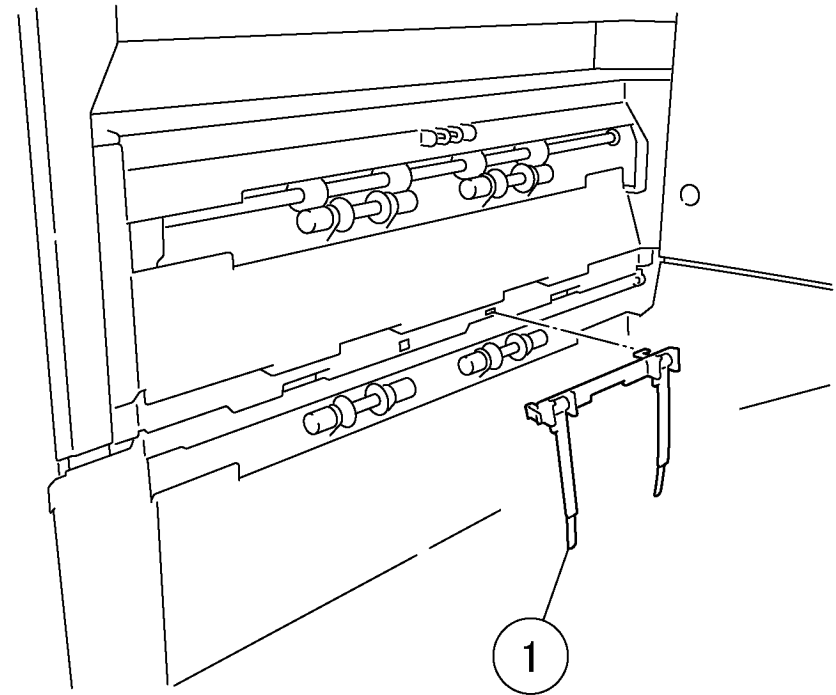


Figure 1 Removing the Front Left Cover

3. Remove the Paper Weight Assembly. (Figure 2)
 1. Remove the Paper Weight Assembly.



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Figure 2 Removing the Paper Weight Assembly

4. Remove the Top Cover Assembly. (Figure 3)
 1. Remove the screws (x2).
 2. Remove the Top Cover Assembly.

REP 10.2.1 Rear Lower Covers

Parts List on PL 11.3, PL 12.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the ESS Cover Assembly. (Figure 1)
 1. Loosen the screws (2).
 2. Remove the ESS Cover Assembly.

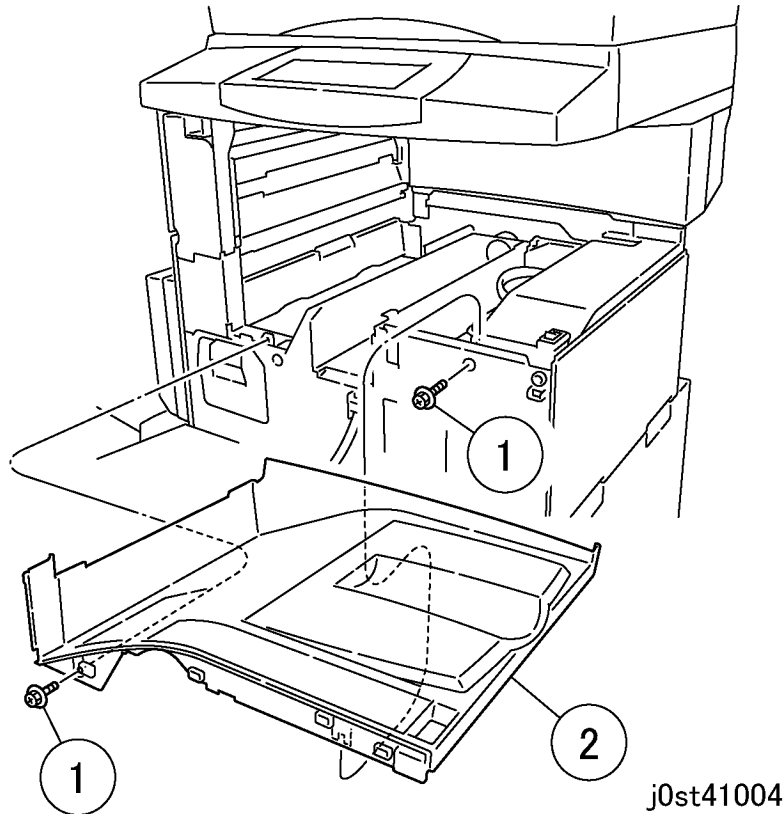


Figure 3 Removing the Top Cover Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

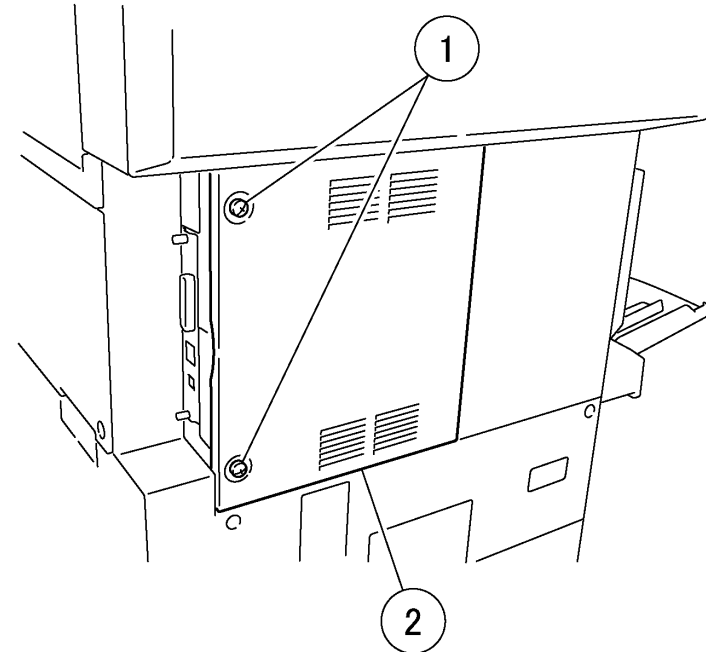
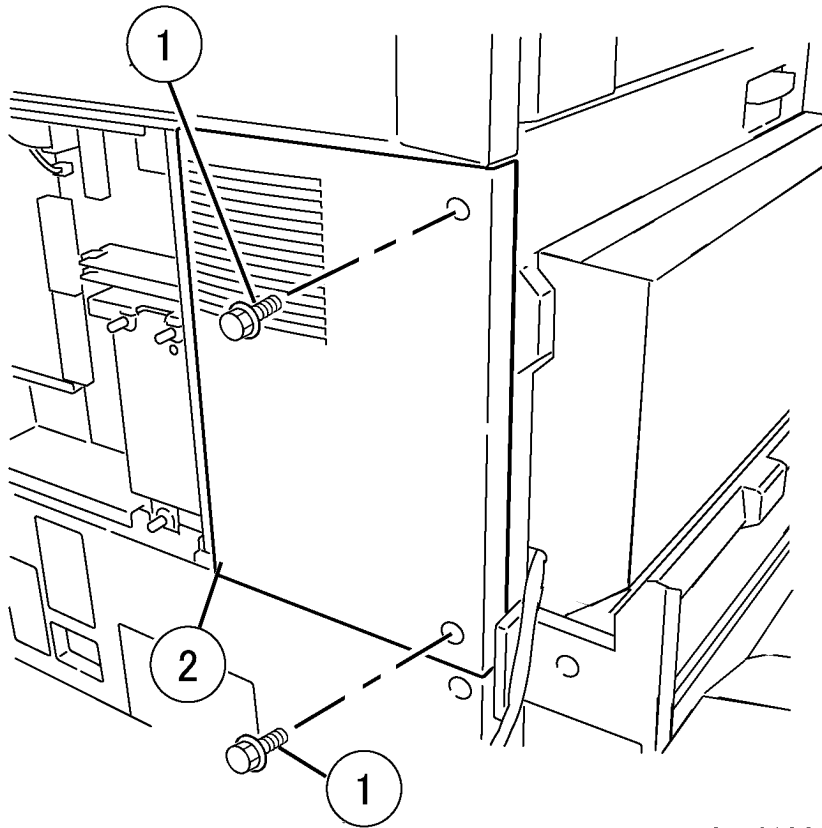


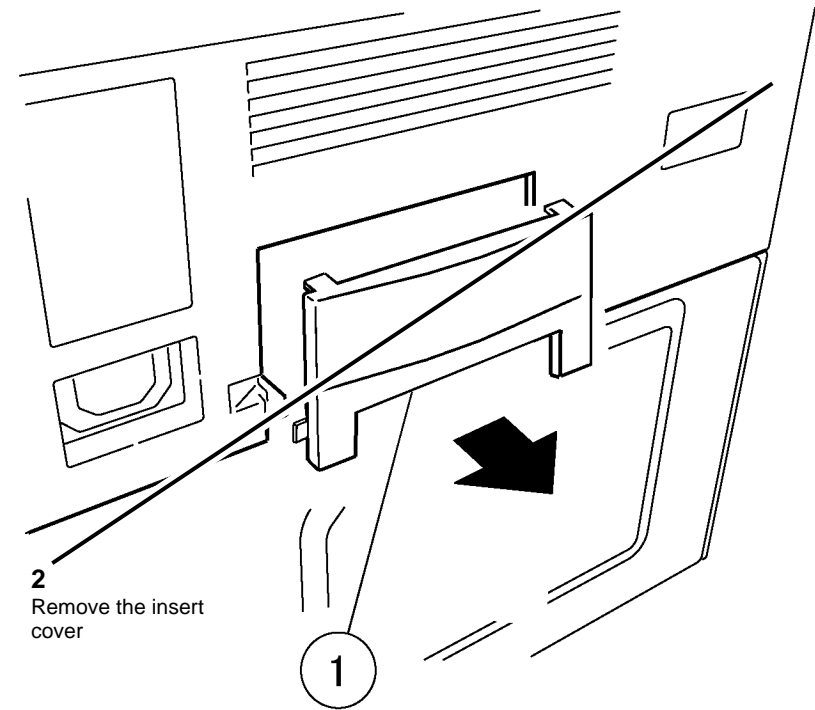
Figure 1 Removing the ESS Cover Assembly

2. Remove the Rear Middle Cover. (Figure 2)
 1. Remove the screws (2).
 2. Remove the Rear Middle Cover.



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Figure 2 Removing the Rear Middle Cover

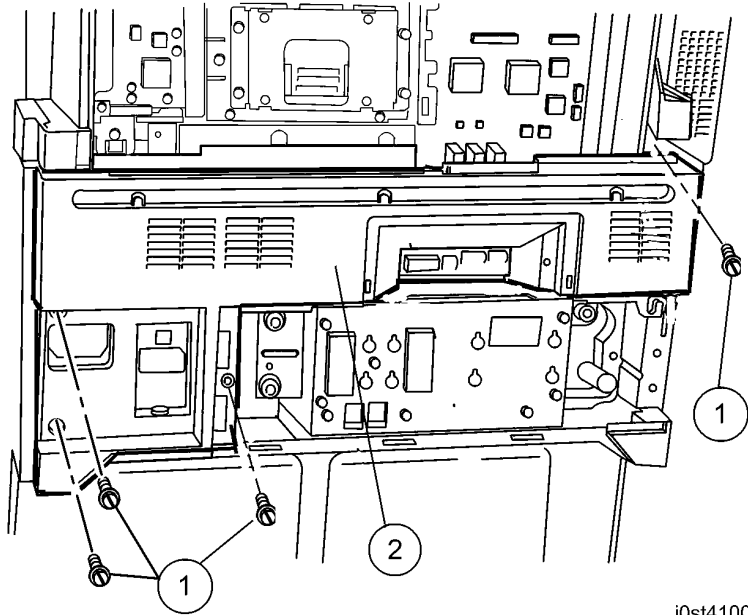


j0st41007

Figure 3 Removing the cover

3. For the Duplex and Finisher models, remove the cover. (Figure 3)
 1. Pull out to remove it.

4. Remove the Rear Lower Cover. (Figure 4)
 1. Remove the screws (4).
 2. Remove the Rear Lower Cover.



j0st41008

Figure 4 Removing the Rear Lower Cover

Replacement

1. To install, carry out the removal steps in reverse order.

REP 10.2.2 Front Inner Cover

Parts List on PL 12.1

Removal

1. Open the Front Door.
2. Remove the Print Drum Latch Handle. (Figure 1)
 - a. Rotate handle to the unlatch position.
 - b. Remove the screw (1).
 - c. Remove the Print Drum Latch Handle.

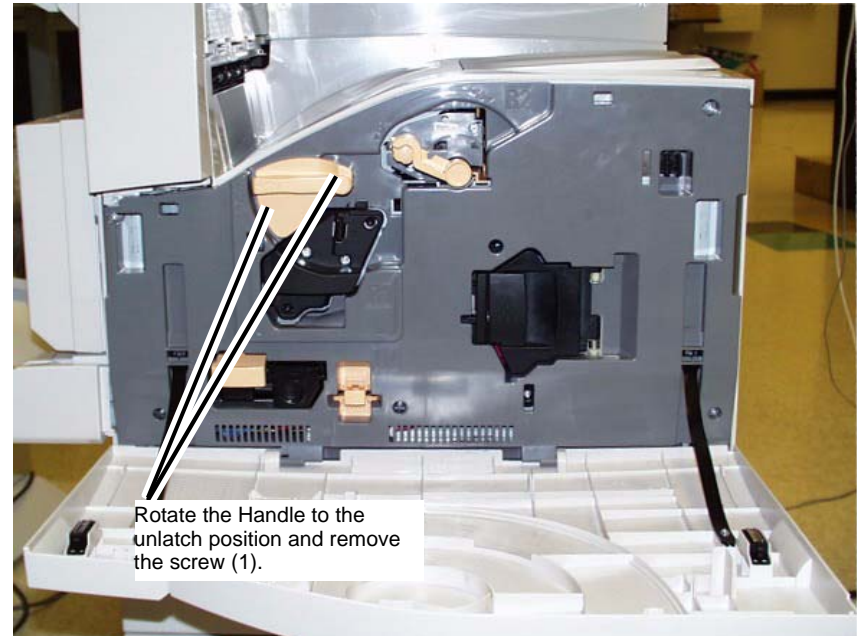


Figure 1 Removing the Print Drum Latch Handle

3. Remove the Front Cover. (Figure 2)

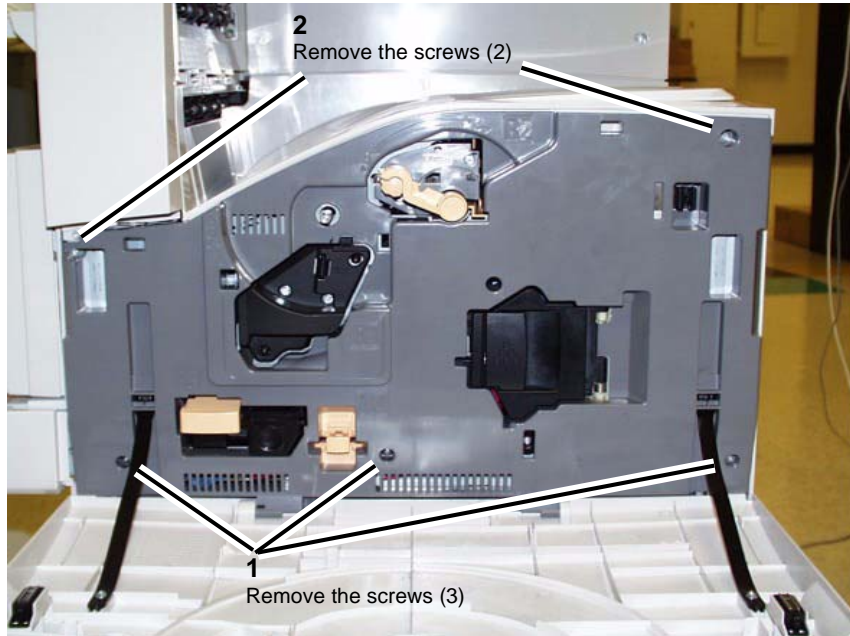


Figure 2 Remove the Front Cover

REP 10.2.3 Right Side Cover

Parts List on PL 12.2

Removal

1. Open the Front Door.
2. Remove the Right Side Cover. (Figure 1)
 - a. Remove the screws (2).
 - b. Push down on the Right Side Cover and remove it from the machine.

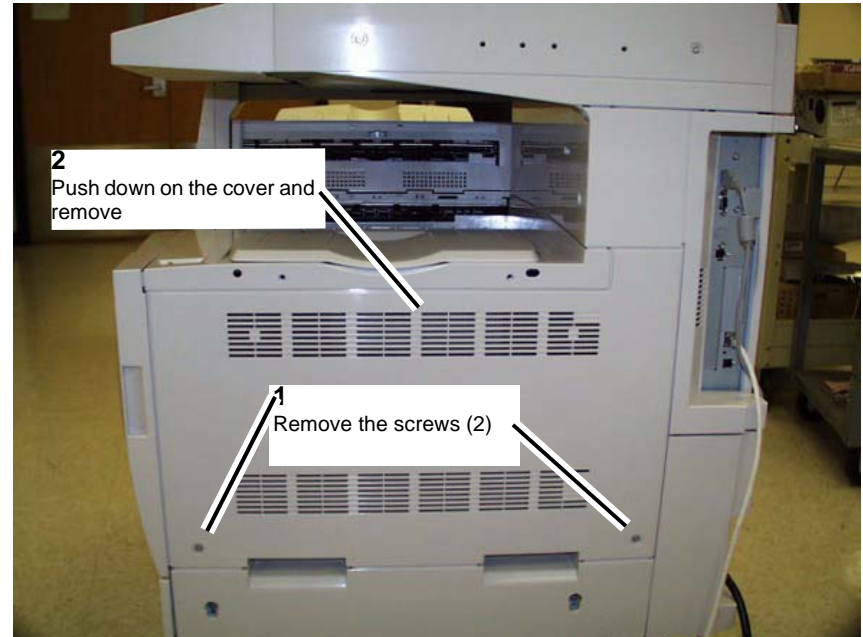


Figure 1 Removing the Right Side Cover

REP 10.3.1 Rear Fan

Parts List on PL 11.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the ESS PWB (REP 9.2.1).
3. Remove the screw (A).
4. Unplug connector (B).
5. Remove the Rear Fan (Figure 1).

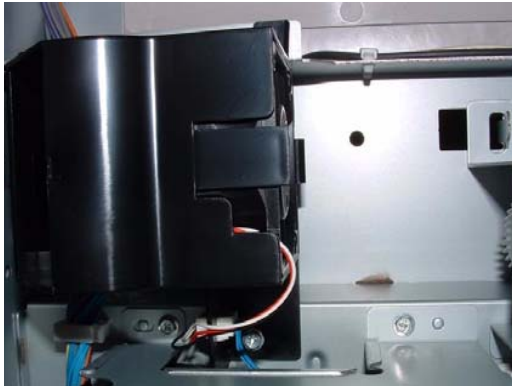


Figure 1 Rear Fan

Replacement

To install, carry out the removal steps in reverse order.

REP 11.1.1 Platen Cushion

Parts List on PL 13.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Platen Cushion. (Figure 1)
 1. Remove the Platen Cushion.

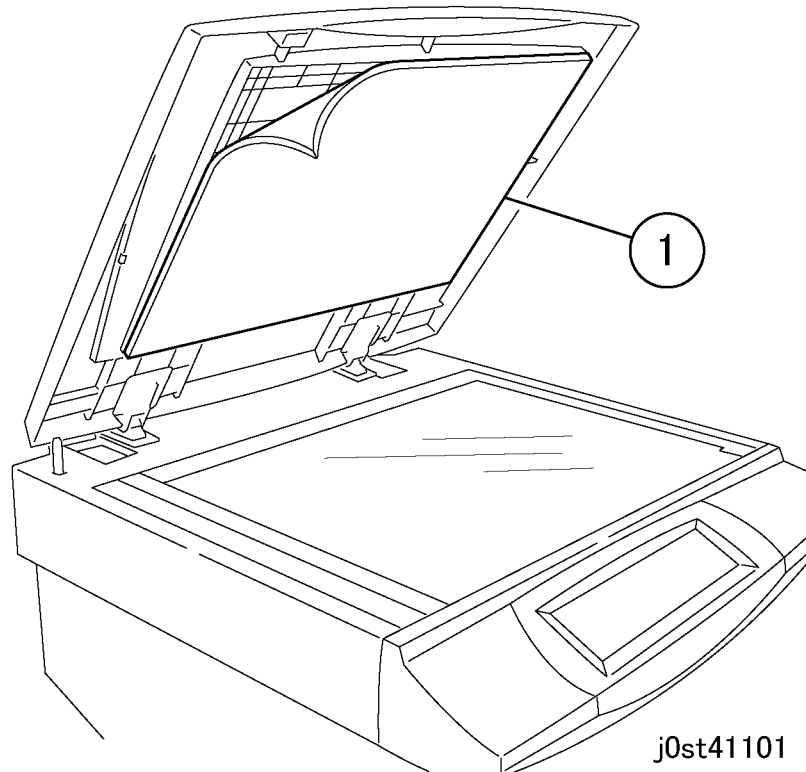


Figure 1 Removing the Platen Cushion

Replacement

NOTE: Remove all remaining tapes on the Platen Cover after the Platen Cushion has been removed.

1. Install the Platen Cushion. (Figure 2)
 1. Remove the seal.
 2. Press gently in the direction of the arrow.
 3. Slowly lower the Platen Cover pressing on the Platen Cushion.

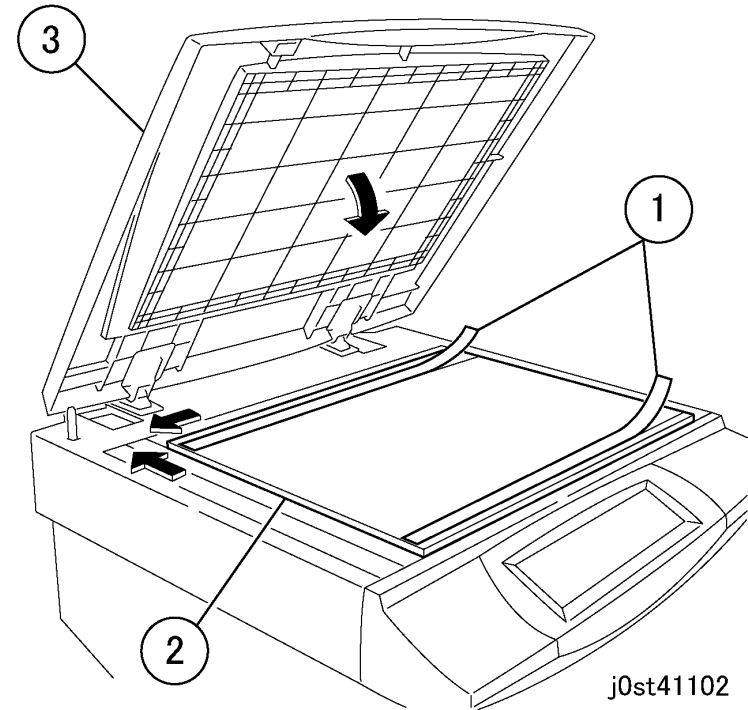


Figure 2 Installing the Platen Cushion

REP 11.1.2 Control Panel Assembly

Parts List on PL 13.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Control Panel Assembly. (Figure 1)
 1. Remove the screws (2).
 2. Remove the screws (2).
 3. Slide the Control Panel Assembly to front a little.
 4. Release the connector.
 5. Release the wire harness from the frame.
 6. Remove the Control Panel Assembly.

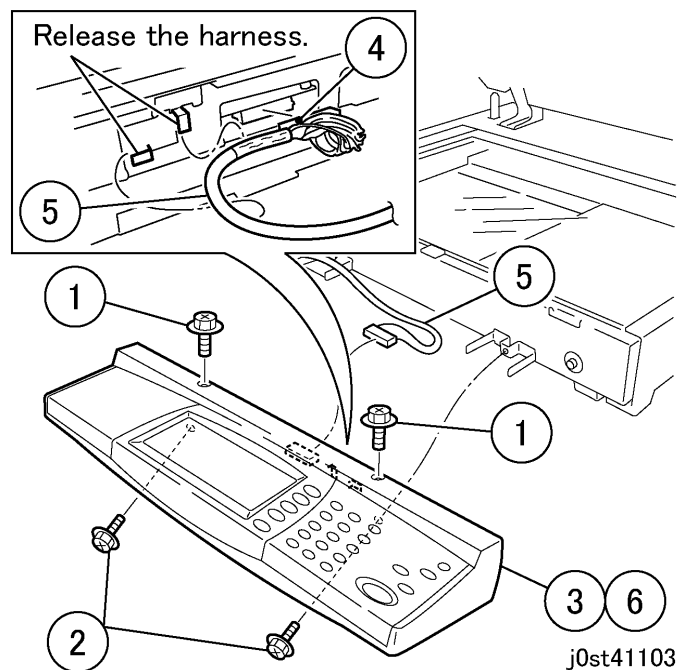


Figure 1 Removing the Control Panel Assembly

Replacement

CAUTION

Do not pinch the wire harness upon installation.

1. To install, carry out the removal steps in reverse order.

REP 11.3.1 Platen Glass

Parts List on PL 13.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Platen Glass. (Figure 1)
 1. Remove the screws (x2).
 2. Remove the plate.
 3. Remove the Platen Glass.

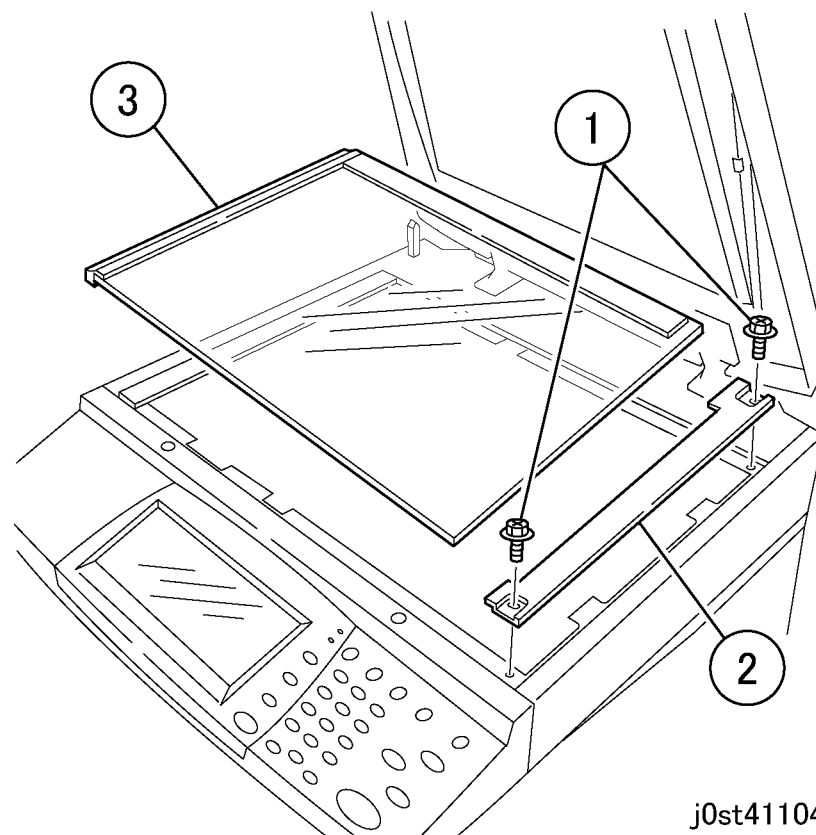


Figure 1 Removing the Platen Glass

Replacement

1. To install, carry out the removal steps in reverse order taking note of the following:

NOTE: To install the Platen Glass, push the Platen Glass in the direction of arrow A and the plate in the direction of arrow B. (Figure 2)

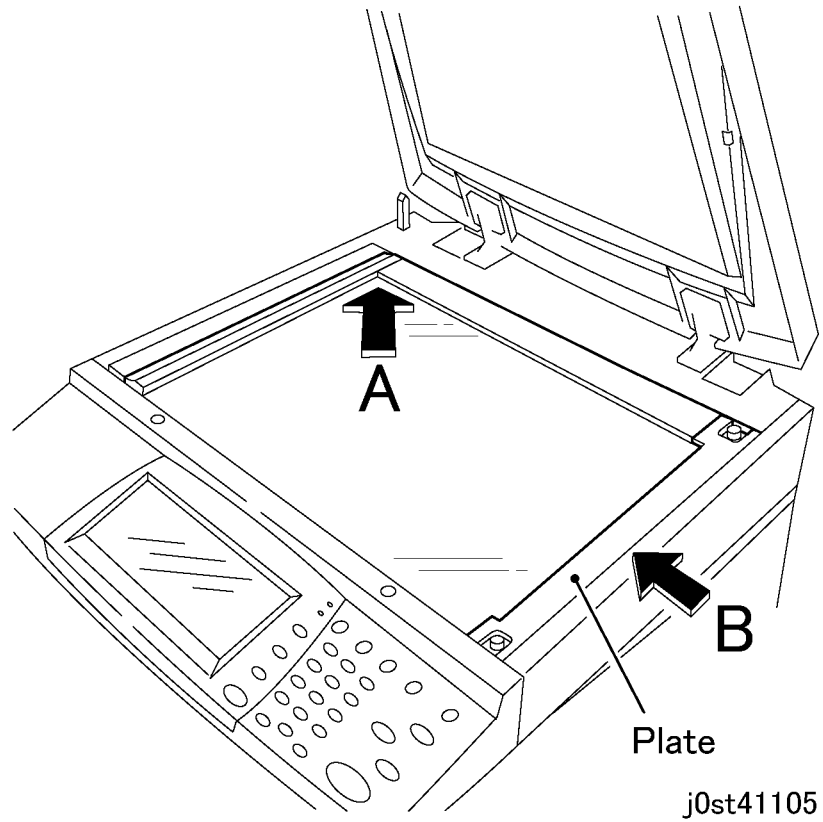


Figure 2 Installing the Platen Glass

REP 11.3.2 IIT/IPS PWB

Parts List on PL 13.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Switch off the power and disconnect the power cord.
2. Remove the Platen Glass (REP 11.3.1)
3. Disconnect the connector and remove the connector screws (2). (Figure 1)

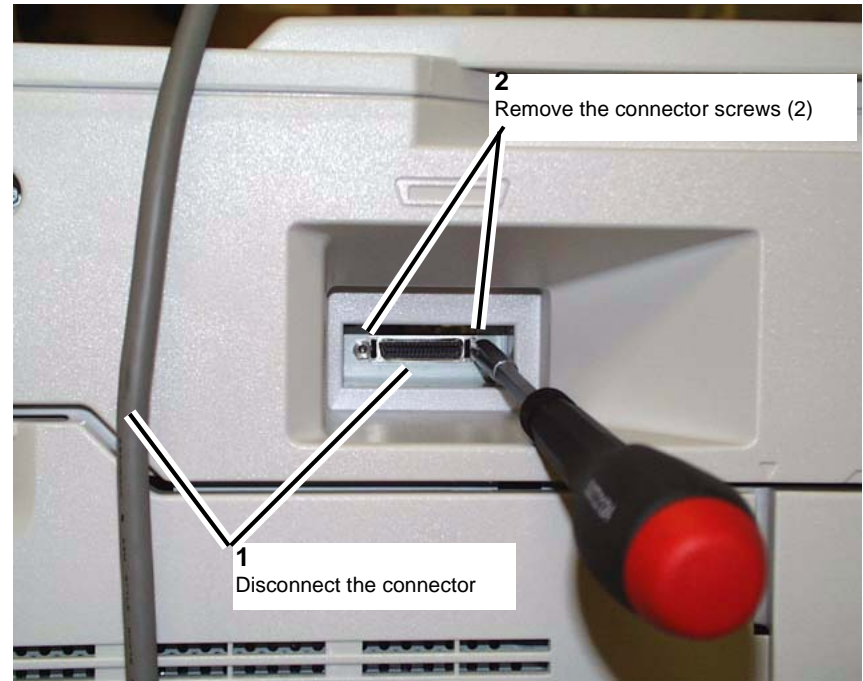


Figure 1 Disconnect the connector and remove the screws (2)

4. Remove the ESS PWB cover and the Top Rear Cover. (Figure 2)

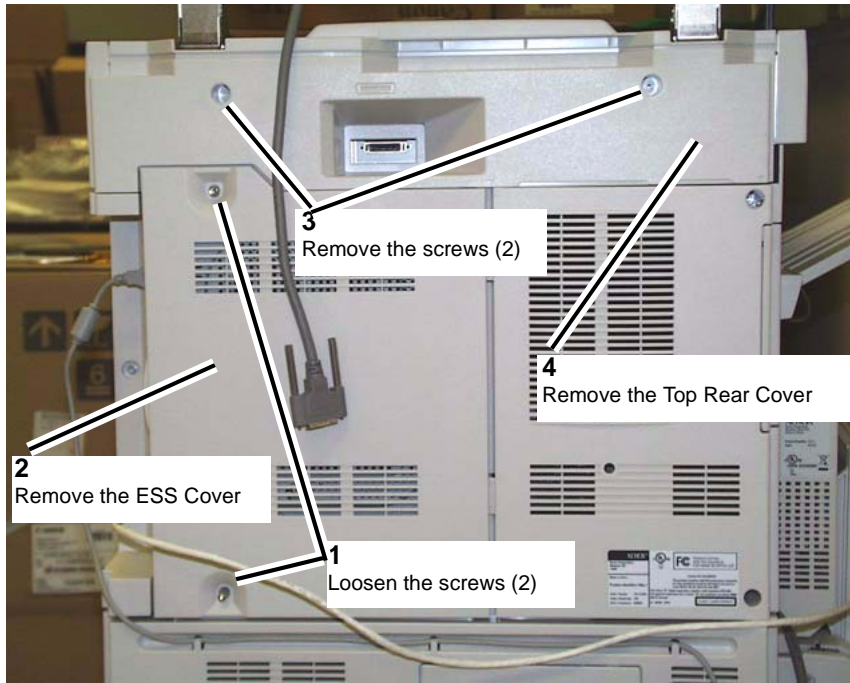


Figure 2 Removing the ESS Cover and the Top Rear Cover

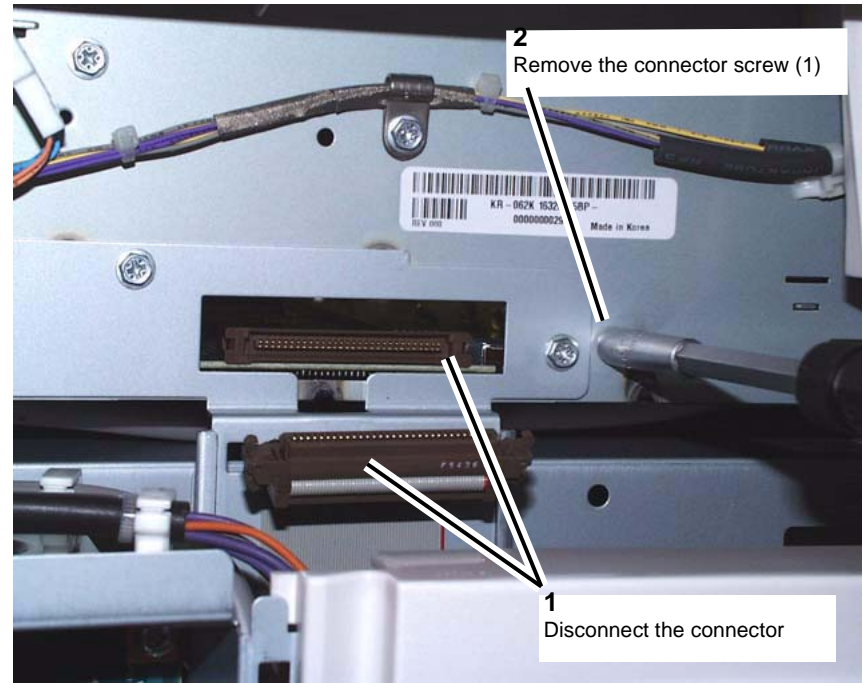


Figure 3 Disconnect the connector and remove the screw (1)

5. Disconnect the connector from the left rear IIT/IPS PWB and remove the screw. (Figure 3)

6. Remove the Lens Cover. (Figure 4)

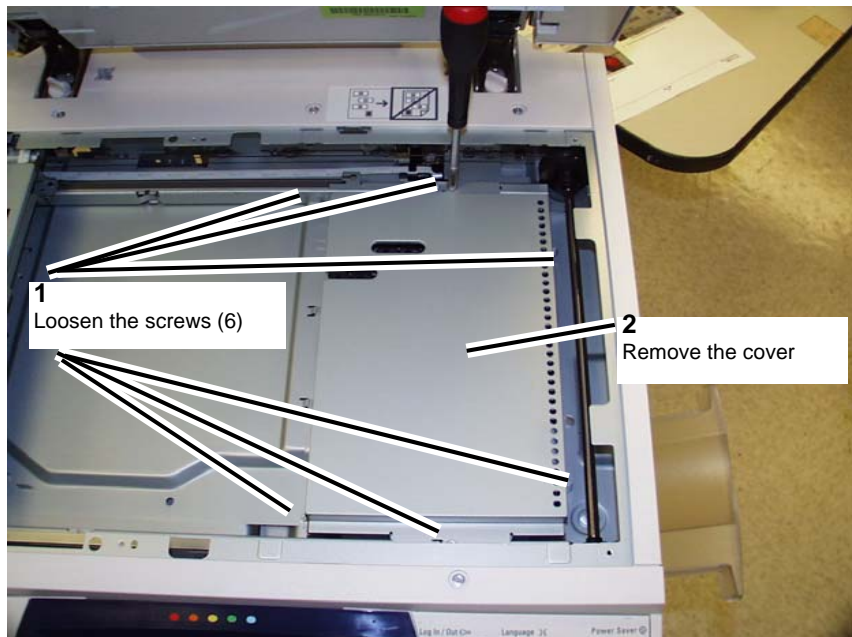


Figure 4 Removing Lens Cover

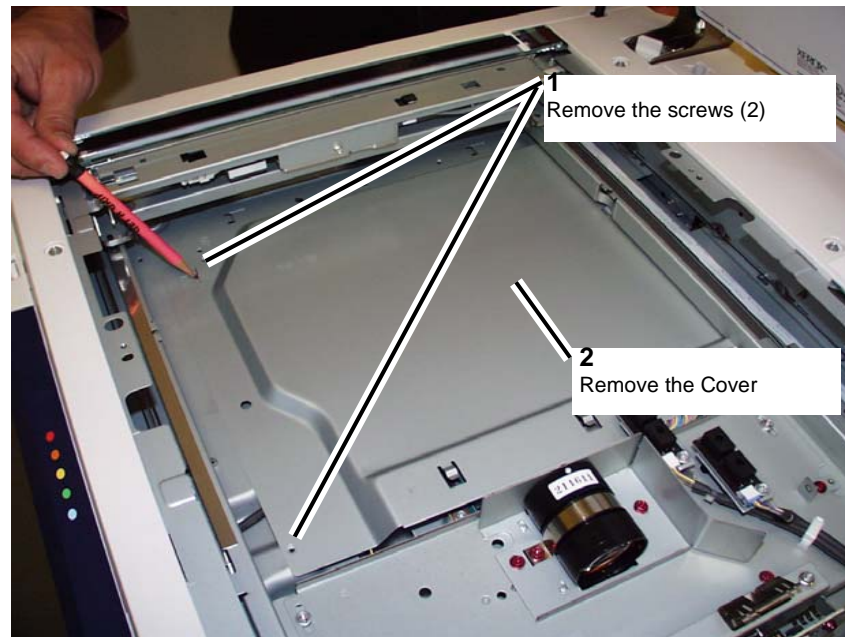


Figure 5 Removing the IPS Cover

7. Remove the IPS PWB Cover. (Figure 5)
 1. Remove the screws (2).
 2. Remove the IPS Cover.

8. Disconnect the connectors (3). (Figure 6)

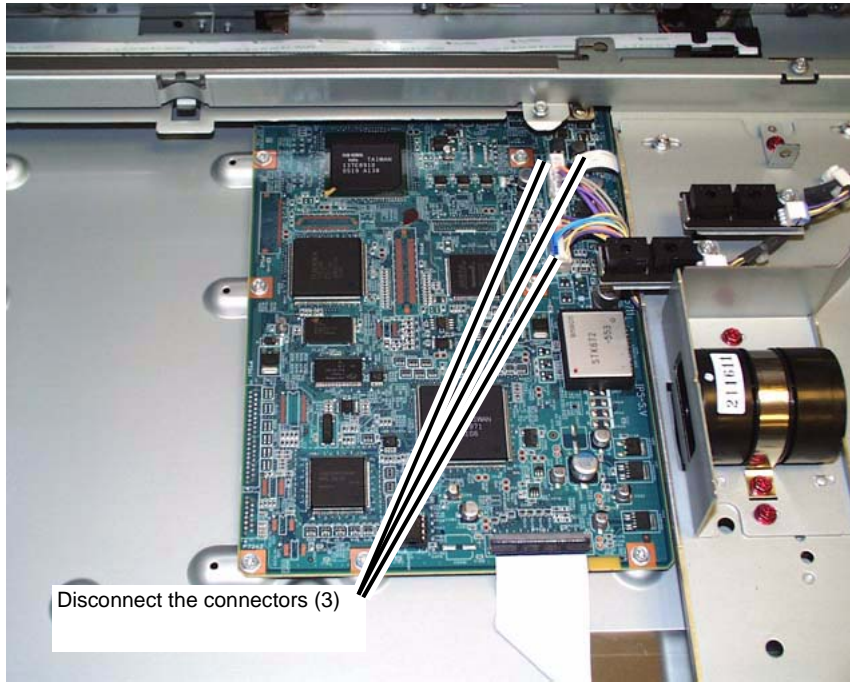


Figure 6 Disconnecting the connectors (4)

9. Disconnect the large ribbon cable on the IIT/IPS PWB. (Figure 7)

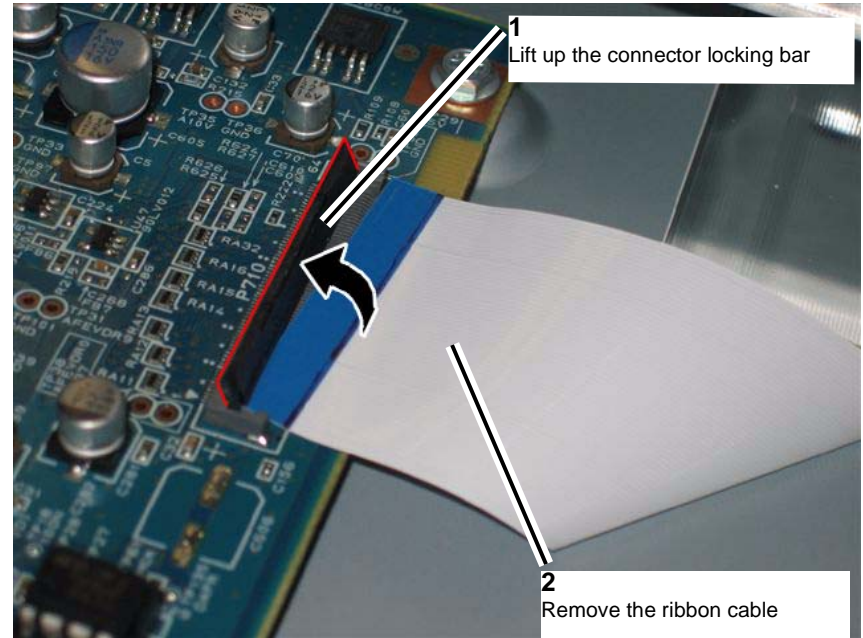


Figure 7 Disconnecting the large ribbon cable

10. Remove the IIT/IPS PWB. (Figure 8)

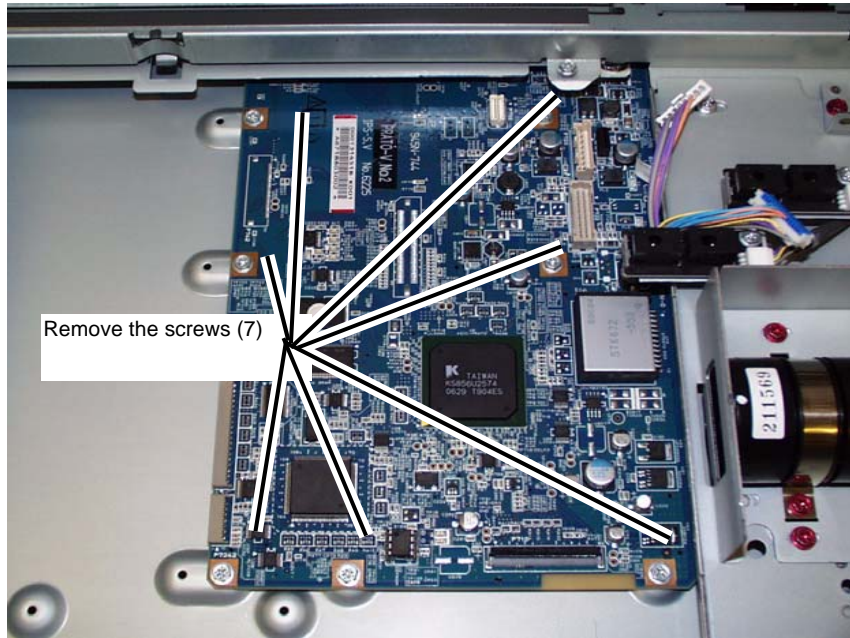


Figure 8 Removing the screws (7)

11. Remove the IIT/IPS PWB.
12. When replacing the IIT/IPS PWB, remove the EPROM from the old IIT/IPS PWB to install it on the new IIT/IPS PWB. (Figure 9)

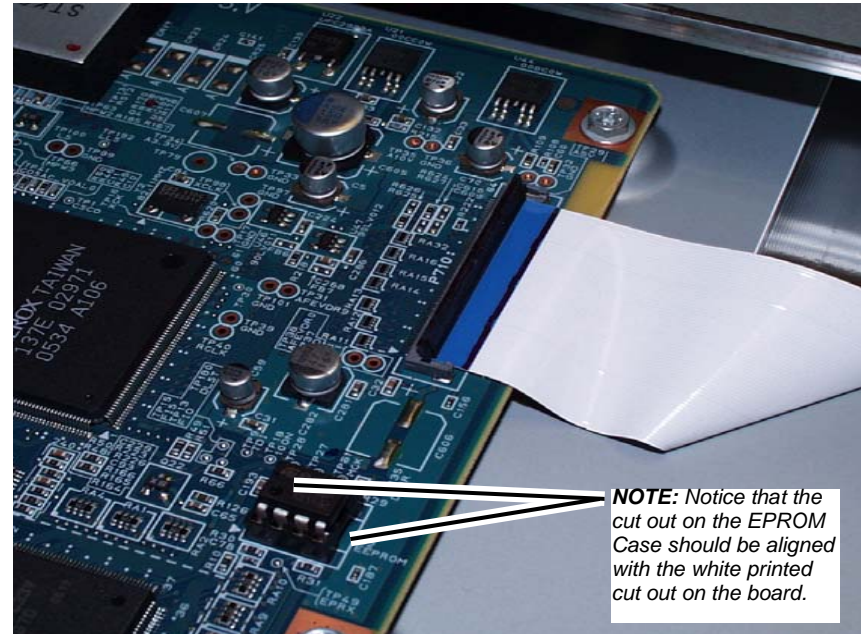


Figure 9 Removal and replacing the IIT EPROM

Replacement

1. When replacing the IIT/IPS PWB, install the EPROM from the old IIT/IPS PWB onto the new IIT/IPS PWB. (Figure 10)

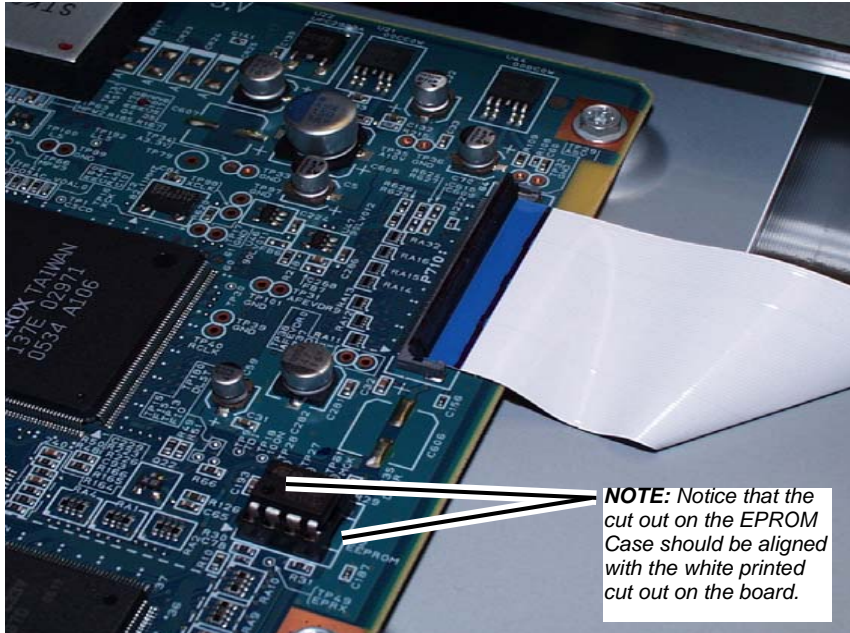


Figure 10 Removal and replacing the IIT EPROM

2. To install, carry out the removal steps in reverse order.
3. Check the software level of the new IIT/IPS PWB to ensure that it is current with the machine software. If the software level is different, upgrade the software on the PWB.

REP 11.4.1 Lens Kit Assembly

Parts List on PL 13.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Platen Glass. (REP 11.3.1)
2. Remove the Lens Cover. (Figure 1)

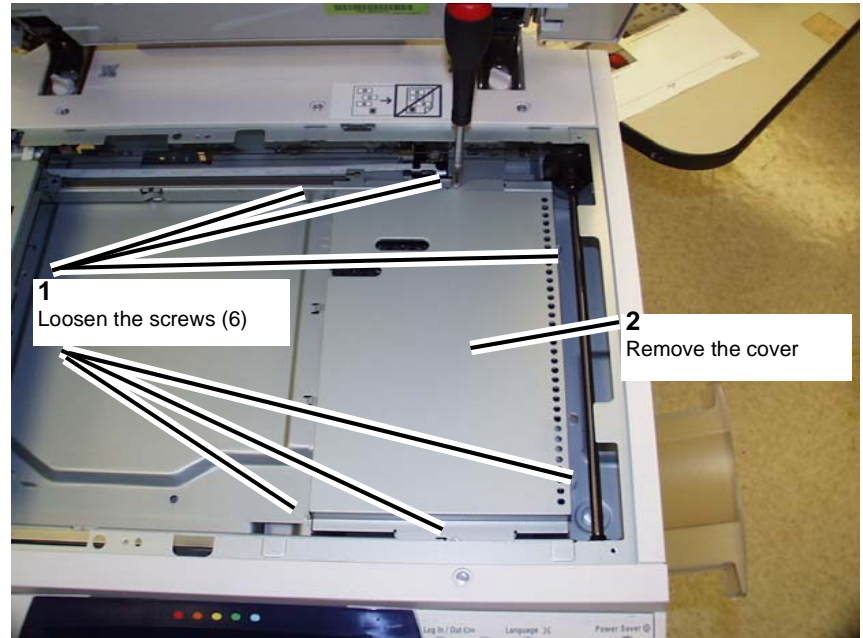


Figure 1 Removing Lens Cover

3. Remove the APS Sensor. (Figure 2)
 1. Remove the Screw.
 2. Release the wire harness from the clamp.
 3. Remove the APS Sensor.

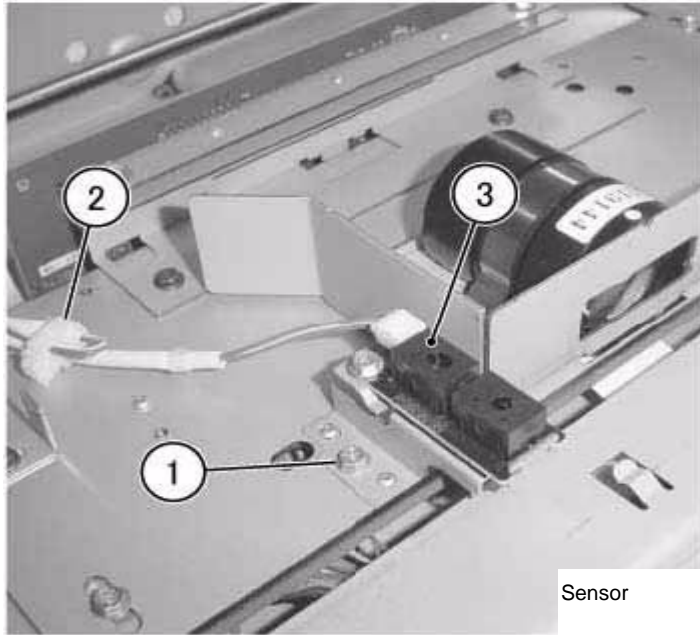


Figure 2 Removing the APS Sensor

4. Disconnect the CCD Flat Cable. (Figure 3)
 1. Take off the hook.
 2. Disconnect the CCD Flat Cable.

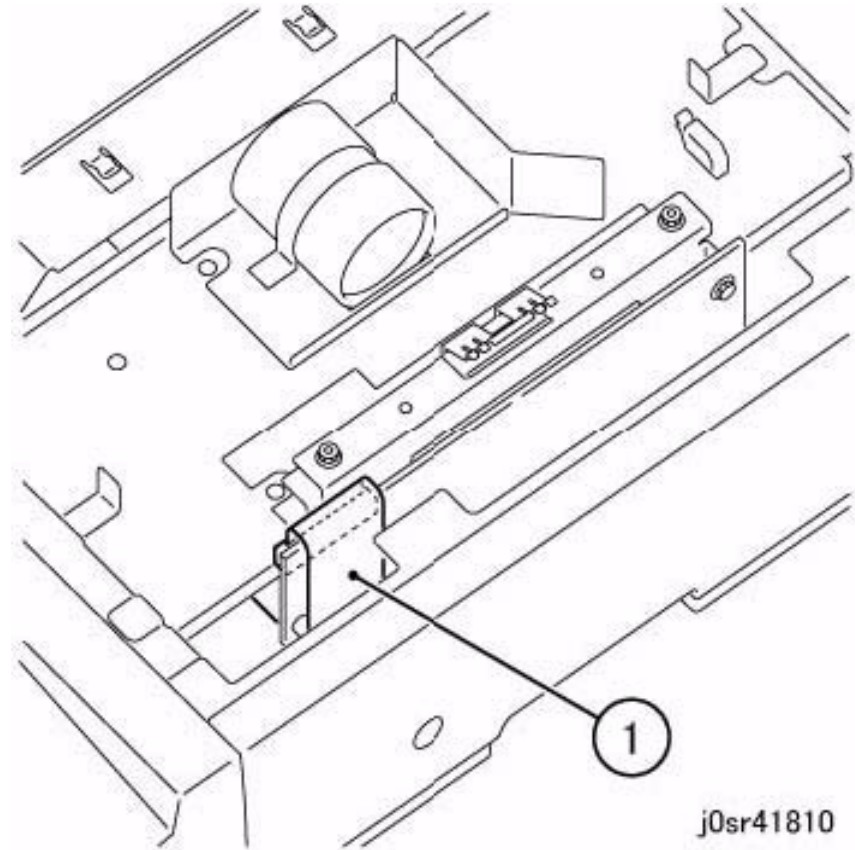


Figure 3 Disconnecting the FFC CCD Cable

5. Replace the Lens Kit Assembly. (Figure 4)
 1. Remove the screws (4).
 2. Remove the Lens Kit Assembly.
 3. Observe the orientation of the Lens Kit Assembly.

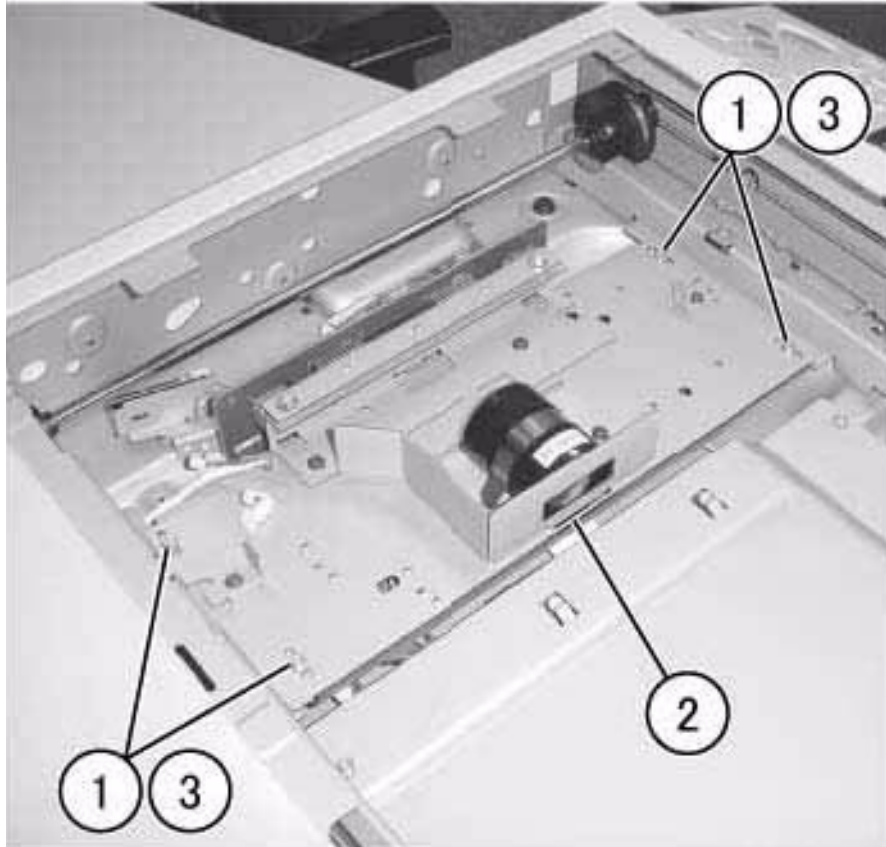


Figure 4 Removing the Lens Kit Assembly

Replacement

1. Install the Lens Kit Assembly.
2. Connect the CCD Flat Cable and install the Lens Cover.
3. Install the Platen Glass. (No need to install the Glass Press Guide.)
4. Switch on the power.
5. Perform the Optical Axis Adjustment ADJ 9.1.9.

REP 11.5.1 Carriage Cable

Parts List on PL 13.5

Removal

NOTE: Only the replacement procedure for the Rear Carriage Cable is described here. The replacement procedure for the Front Carriage Cable is the same as for the Rear Carriage Cable.

NOTE: The Front and Rear Carriage Cables must be replaced separately.

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. For the Platen models, remove the Platen Cover. (Figure 1)
 1. Remove the Platen Cover.

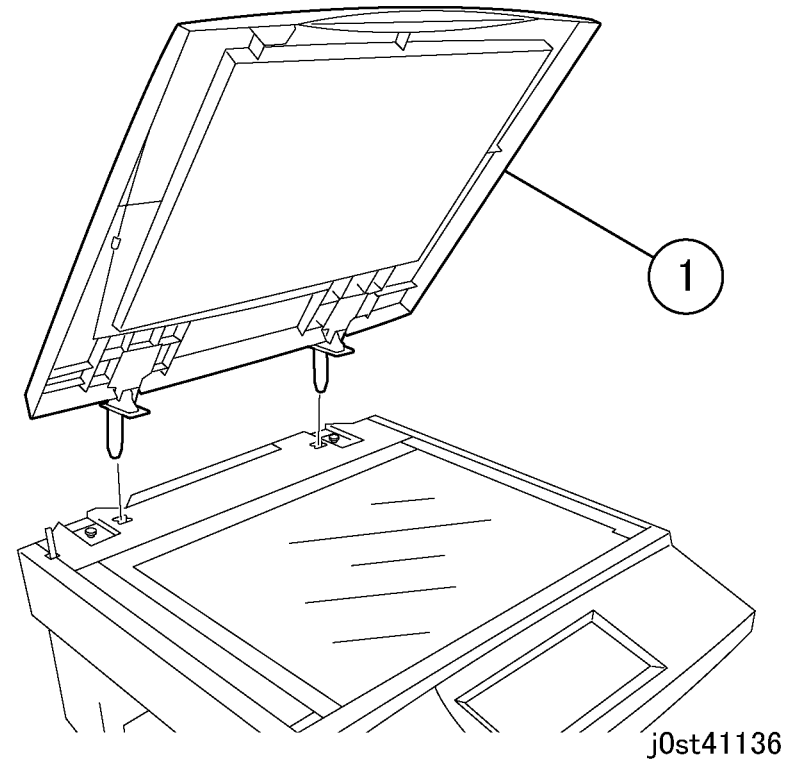


Figure 1 Removing the Platen Cover

2. Remove the following parts:
 - Platen Glass (REP 11.3.1)
 - Control Panel (REP 11.1.2)
 - DADF Assembly (REP 15.1.1)
3. Remove the DADF Platen Glass. (Figure 2)
 1. Remove the screw (1).
 2. Remove the Front Support Bracket.
 3. Remove the DADF Platen Glass.

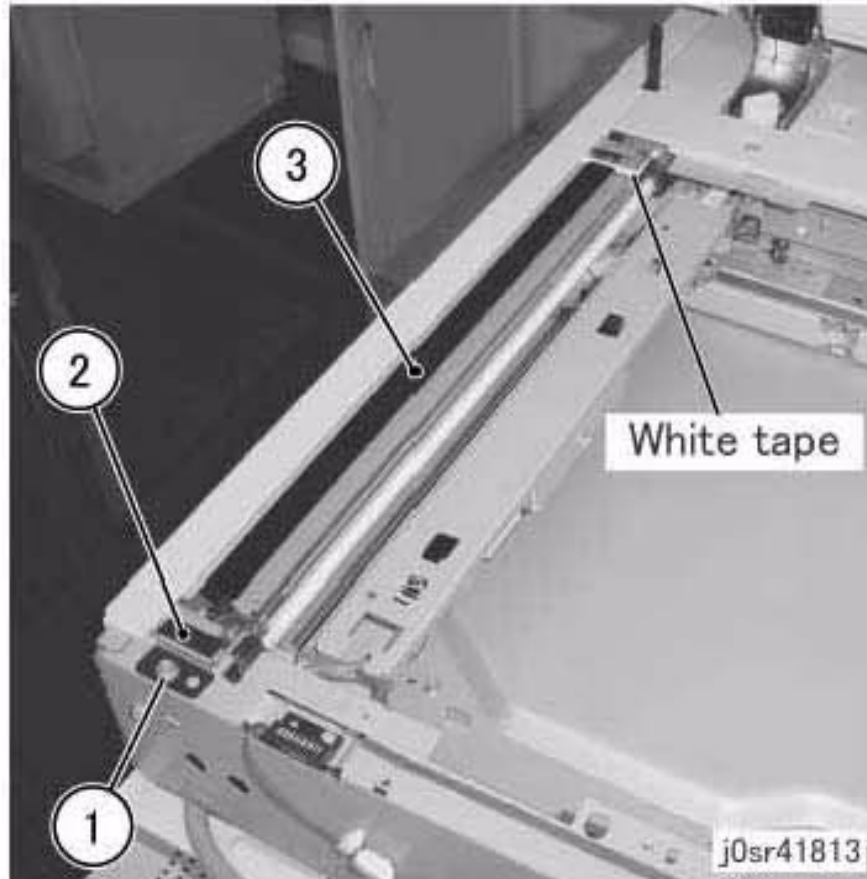


Figure 2 Removing the Left Side Platen

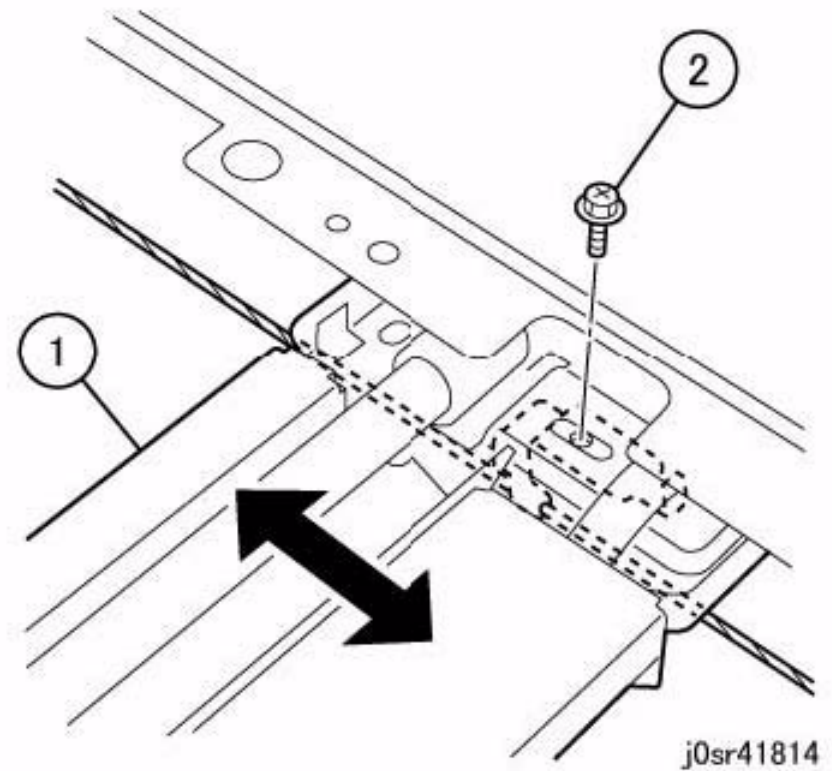


Figure 3 Unfastening the Full Rate Carriage

4. Unfasten the Full Rate Carriage from the Carriage Cable. (Figure 3)
 1. Move the Full Rate Carriage to the frame cutouts.
 2. Remove the screws (1).

3. Remove the Carriage Cable. (Figure 4)
 1. Remove the spring from the frame.
 2. Detach the cable from the spring.

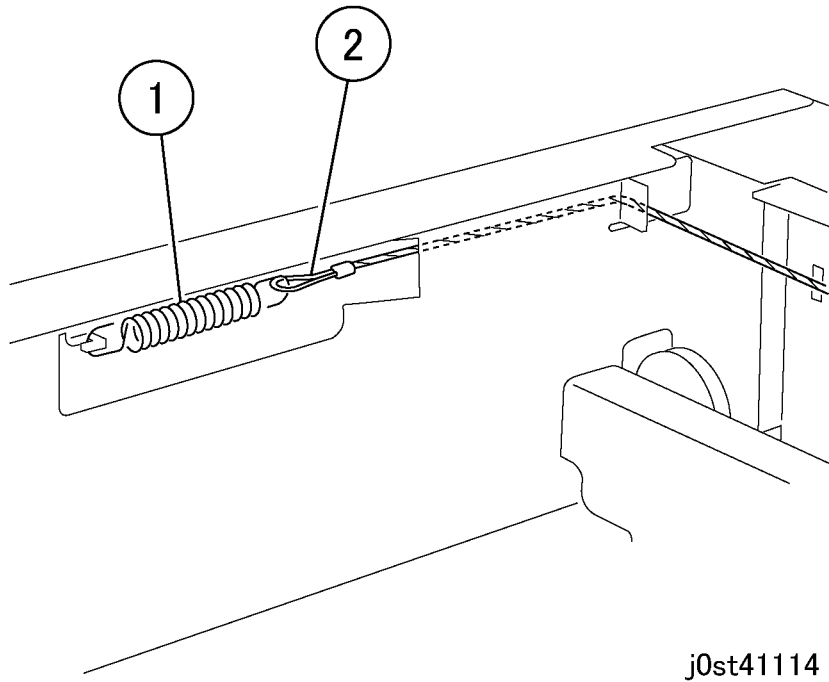


Figure 4 Removing the spring

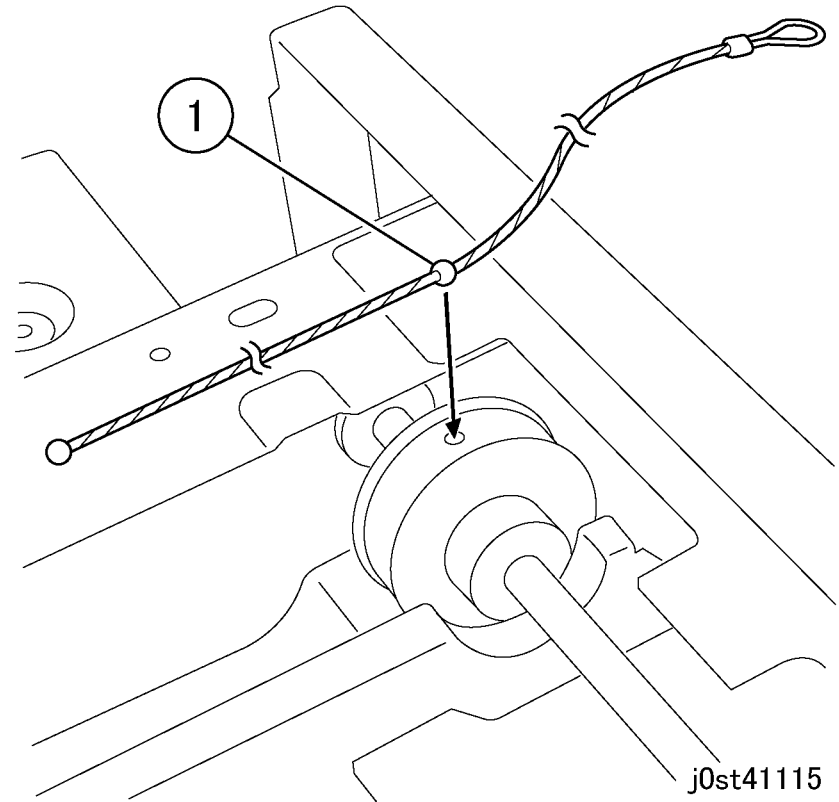
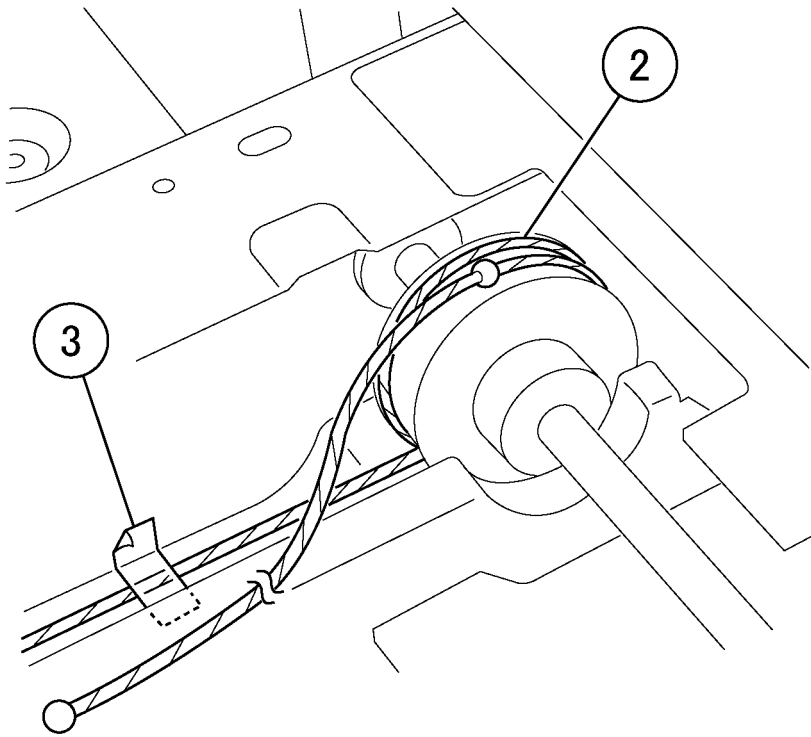


Figure 5 Winding the Carriage Cable around the pulley. 1/3

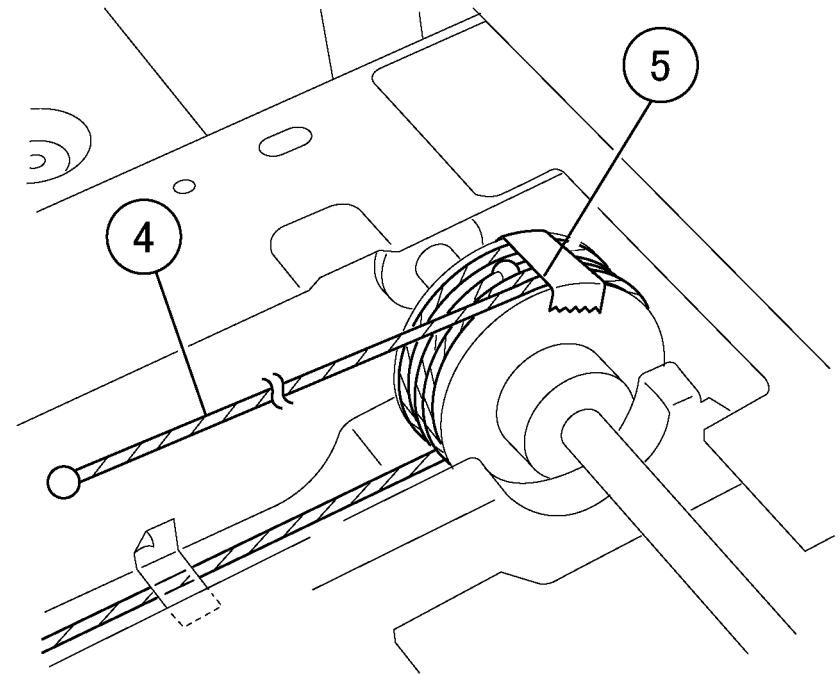
Replacement

1. Wind the Carriage Cable around the pulley. (Figure 5, Figure 6, Figure 7)
 1. Insert the Carriage Cable ball into the ditch of the pulley.
 2. Wind the spring end of the cable around the pulley for 1.5 rounds.
 3. Fix the cable at the spring end on the frame with tape.
 4. Wind the cable at the ball end around the pulley for 2 rounds.
 5. Fix the cable on the pulley with tape to prevent it from moving.



j0st41116

Figure 6 Winding the Carriage Cable around the pulley. 2/3



j0st41117

Figure 7 Winding the Carriage Cable around the pulley. 3/3

NOTE: Indicates the number of coils made by the Carriage Cable at the front and rear.
(Figure 8)

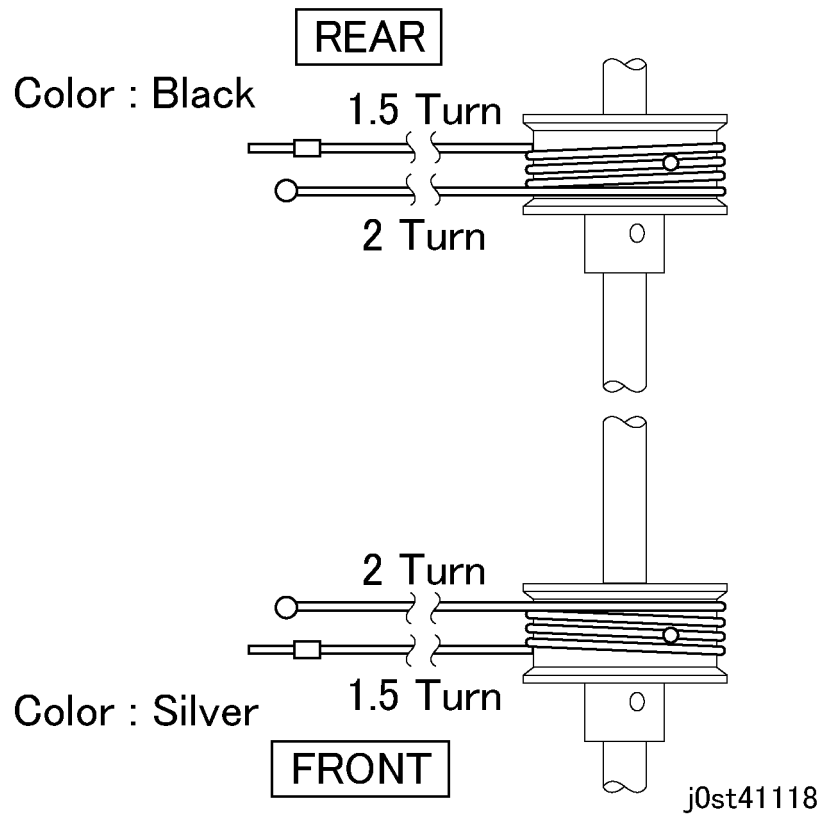


Figure 8 The number of coils made by Carriage Cable at the front and rear

2. Install the ball end of the Carriage Cable. (Figure 9)
 1. Route the Carriage Cable on the pulley in front of it.
 2. Hang the ball on the notch of the frame.

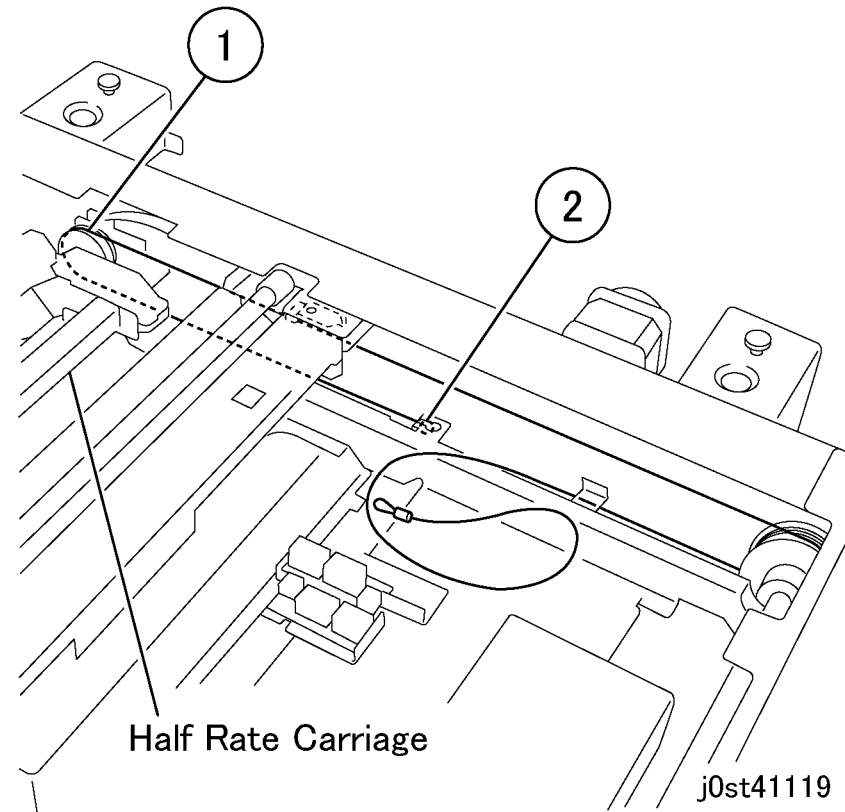


Figure 9 Installing the Carriage Cable

3. Install the spring end of the Carriage Cable. (Figure 10)
 1. Remove the tape securing the Carriage Cable.
 2. Route the spring end of the Carriage cable along the frame and on the pulley.
 3. Route the cable on the pulley at the rear of the Half Rate Carriage.
 4. Attach the spring to the Carriage Cable and route the cable along the frame as indicated.

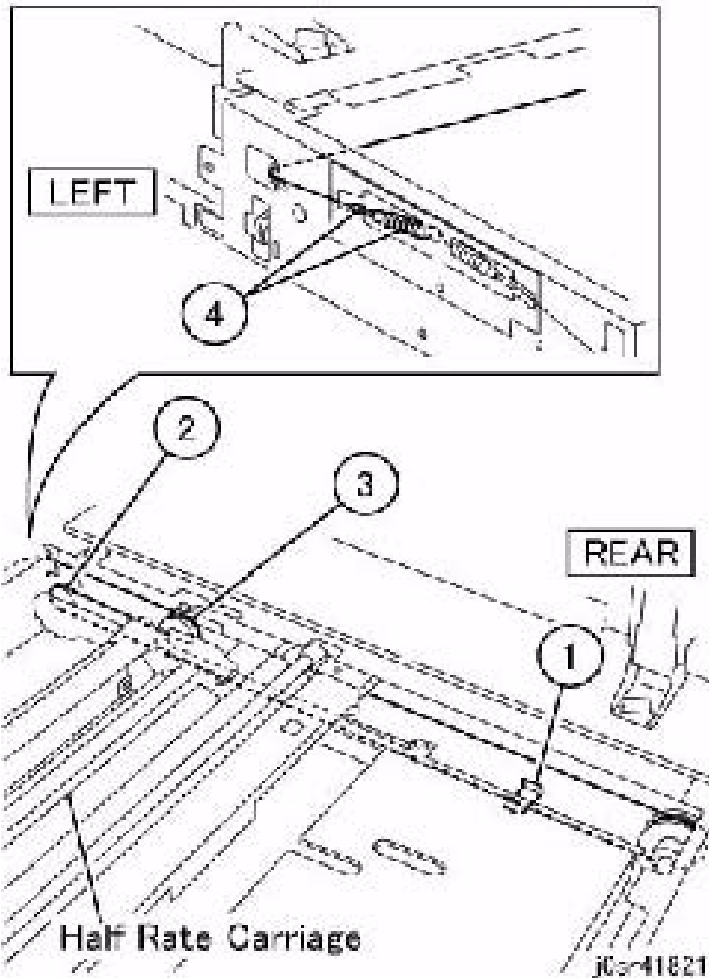


Figure 10 Installing the spring

5. Temporarily attach the Full Rate Carriage on the Carriage Cable. (Figure 11)
 1. Remove the tape.
 2. Move the Full Rate Carriage to the Frame cutout position.
 3. Temporarily attach the Full Rate Carriage on the Carriage Cable.

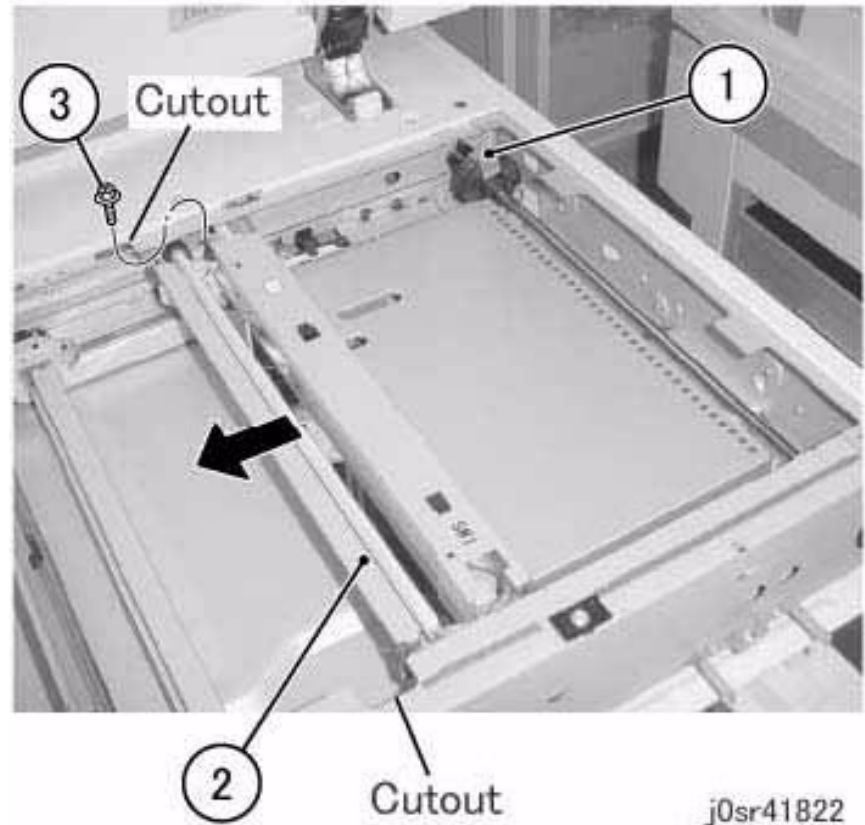


Figure 11 Installing the Carriage Cable at the front

4. Remove the tape used for keeping the cable in place.
5. Adjust the position of Full Rate/Half Rate Carriages. (ADJ 11.6.1)
6. Manually move the Full Rate Carriage to ensure that it moves smoothly.

REP 11.5.2 Carriage Motor Assembly

Parts List on PL 13.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. For the Platen models, remove the Platen Cover.
 1. Remove the Platen Cover. (Figure 1)

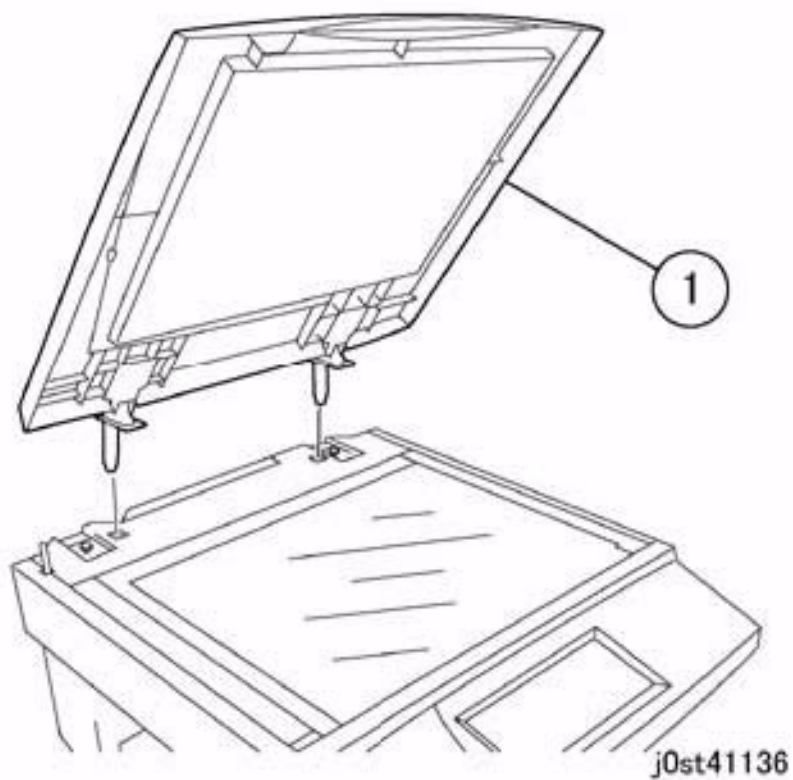


Figure 1 Remove the Platen Cover

2. For the DADF Models Remove the DADF. (REP 15.1.1)
3. Remove the ESS Cover Assembly. (Figure 2)
 1. Loosen the screws (2).

2. Remove the ESS Cover Assembly.

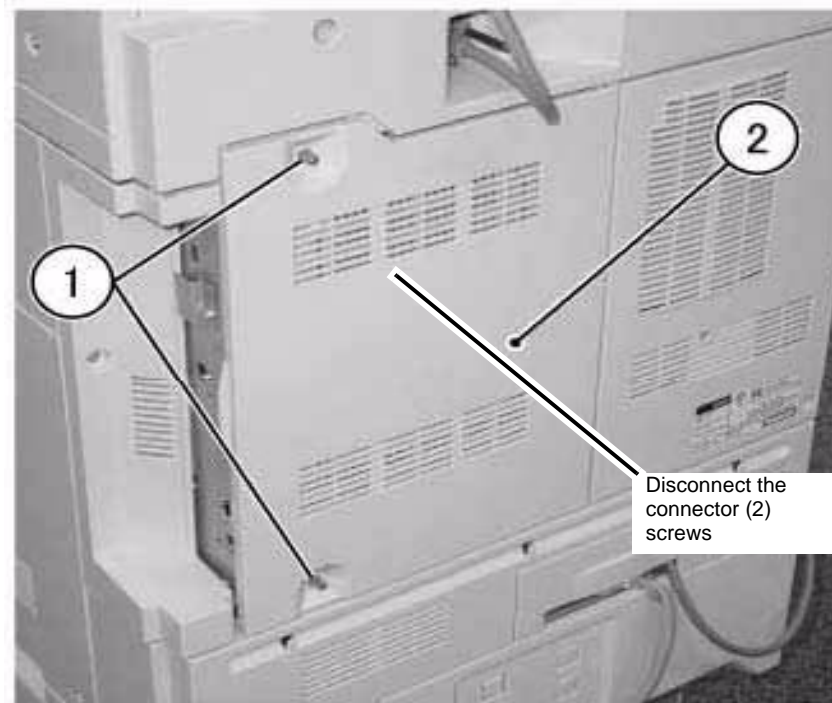


Figure 2 Removing the ESS Cover

3. Remove the Rear Upper Cover. (Figure 3)

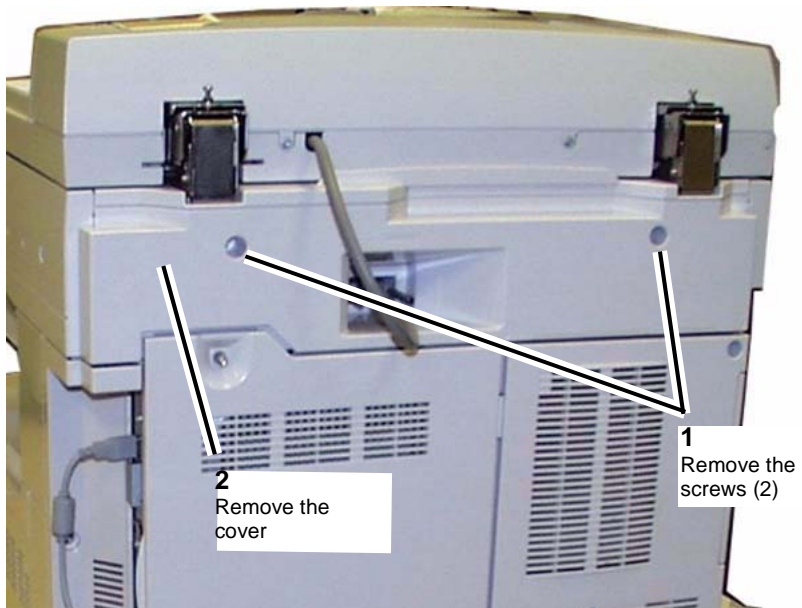


Figure 3 Removing the Rear Upper Cover

4. Remove the IIT Left Cover. (Figure 4)
 1. Remove the screws (2).
 2. Remove the IIT Left Cover.

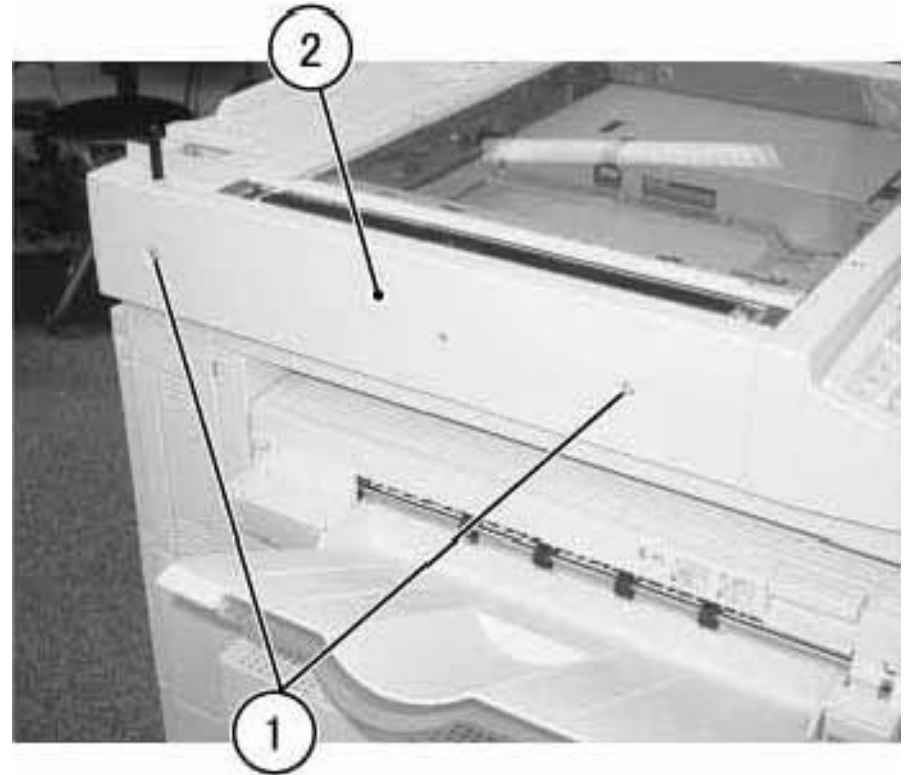
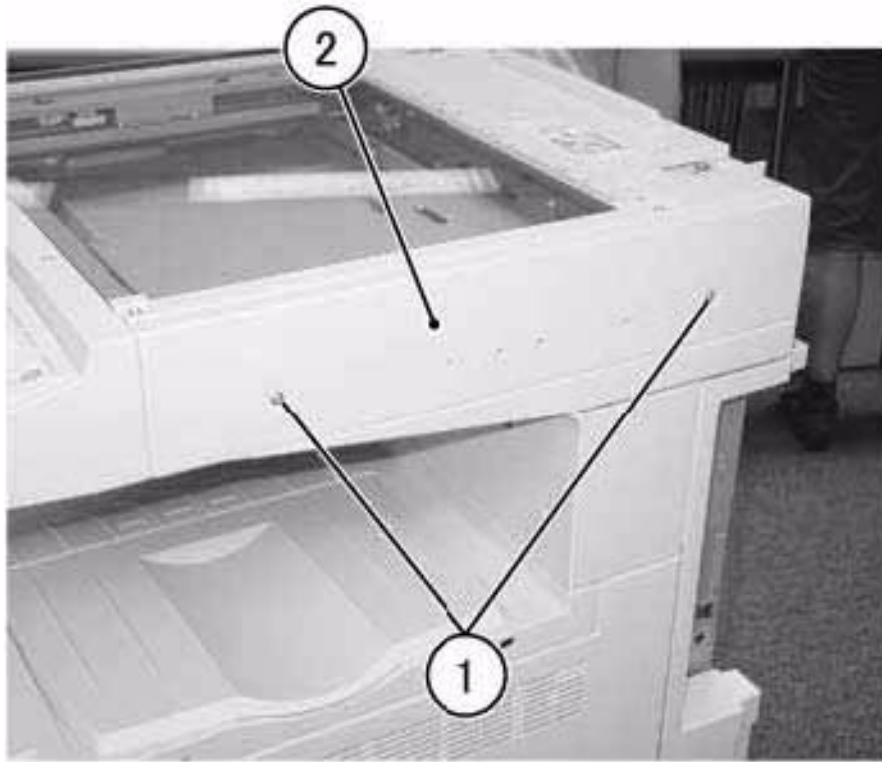


Figure 4 Removing the IIT Left Cover

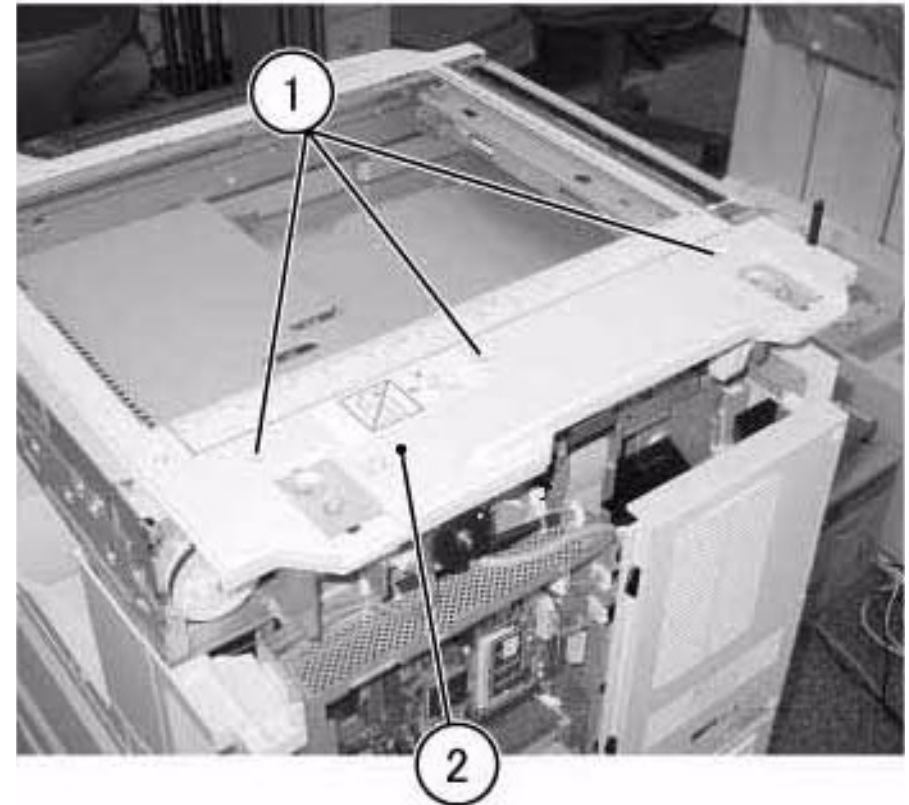
j0vr411006

3. Remove the IIT Rear Cover. (Figure 5)
 1. Remove the screws (2).
 2. Remove the IIT Right Cover.



j0vr411007

Figure 5 Removing the IIT Right Cover

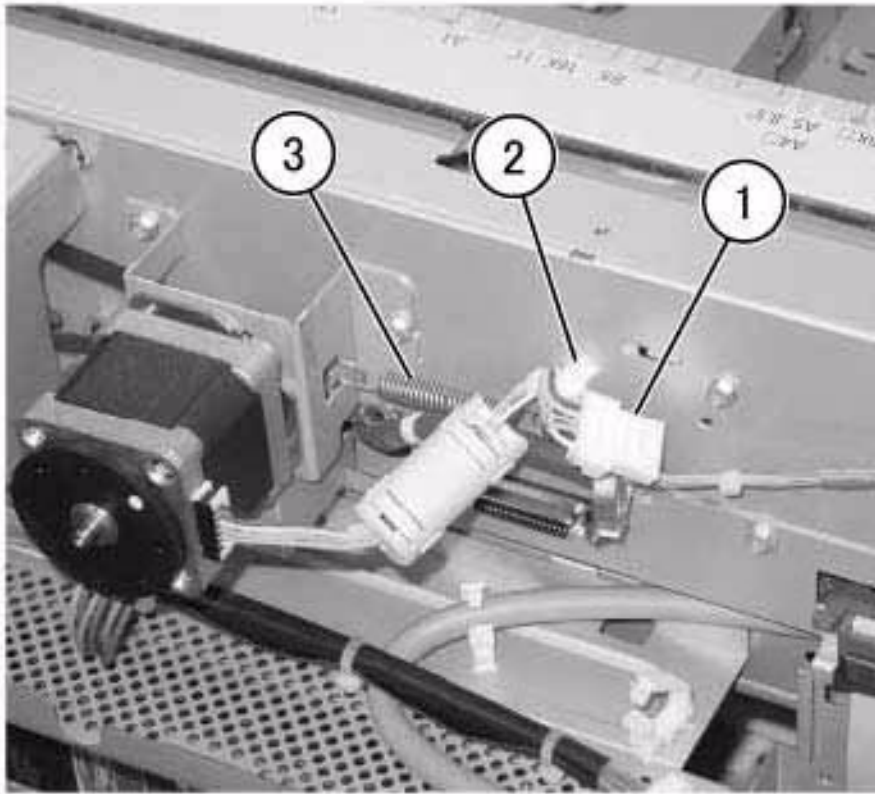


j0vr411008

Figure 6 Removing the IIT Rear Cover

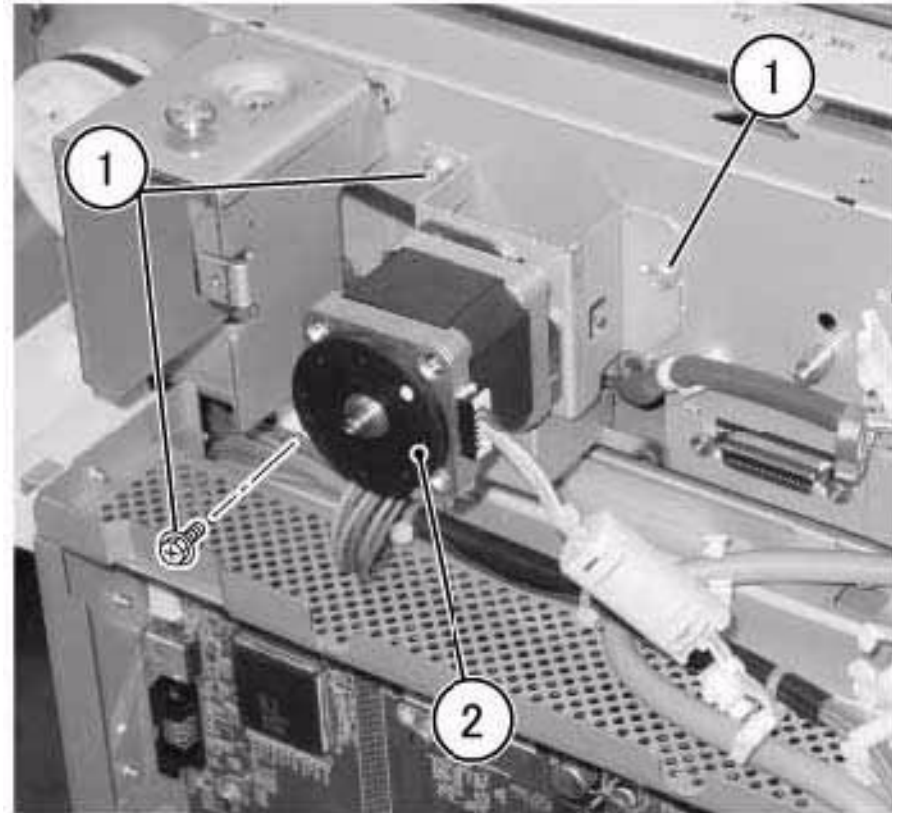
3. Remove the IIT Rear Cover. (Figure 6)
 1. Remove the screws (3).
 2. Remove the IIT Rear Cover.

3. Disconnect the connector. (Figure 7)
 1. Disconnect the connector.
 2. Remove the clamp.
 3. Remove the spring.



i0vr411009

Figure 7 Disconnecting the connector



i0vr411010

Figure 8 Removing the Carriage Motor Assembly

4. Remove the Carriage Motor Assembly. (Figure 8)
 - a. 1. Remove the screws (x3).
 - b. 2. Remove the Carriage Motor Assembly.

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.6.1 Exposure Lamp

Parts List on PL 13.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Open the Platen Cover or DADF.
2. Remove the Platen Glass. (REP 11.3.1)
3. Move the Full Rate Carriage to the frame notch.
4. Remove the Exposure Lamp. (Figure 1)
 1. Disconnect the connector.
 2. Remove the screw.
 3. Remove the Exposure Lamp.

Replacement

1. To install, carry out the removal steps in reverse order.

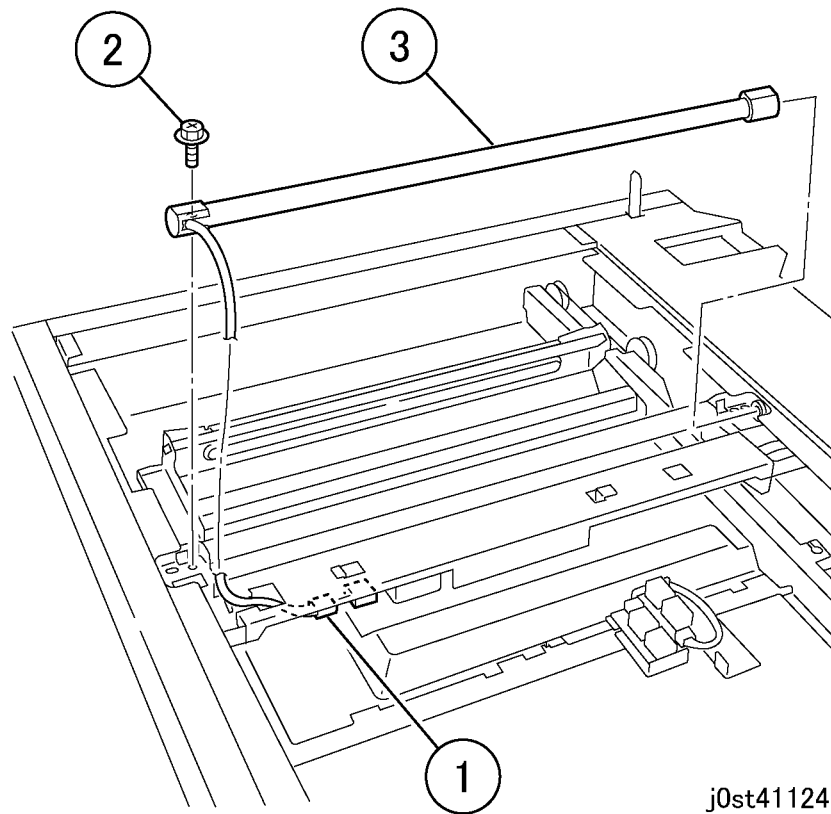


Figure 1 Removing the Exposure Lamp

REP 11.6.2 Lamp Wire Harness

Parts List on PL 13.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the DADF. (REP 15.1.1)
2. Remove the Platen Glass. (REP 11.3.1)
3. Remove the Lens Cover. (Figure 1)

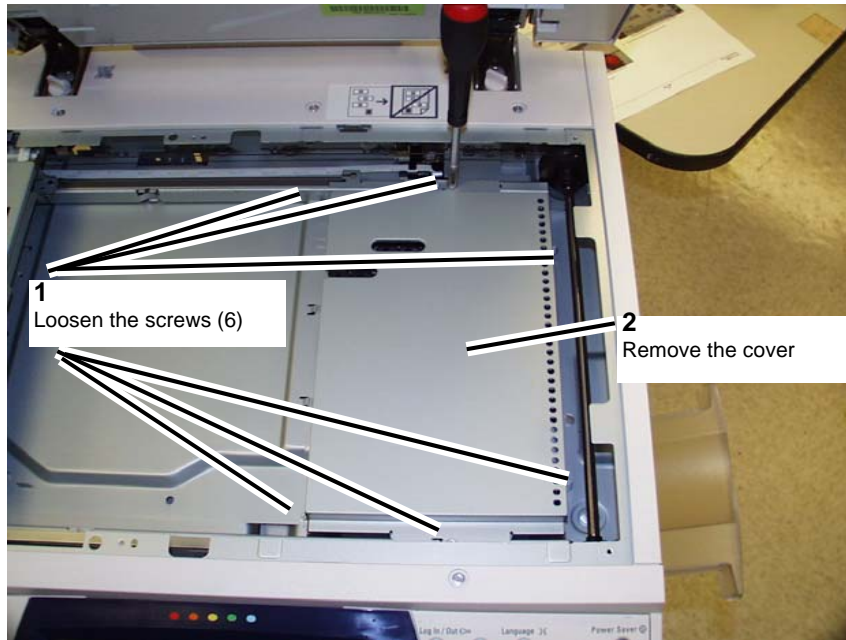


Figure 1 Removing Lens Cover

4. Remove the IPS Cover. (Figure 2)
 1. Remove the screws (2).
 2. Remove the IPS Cover.

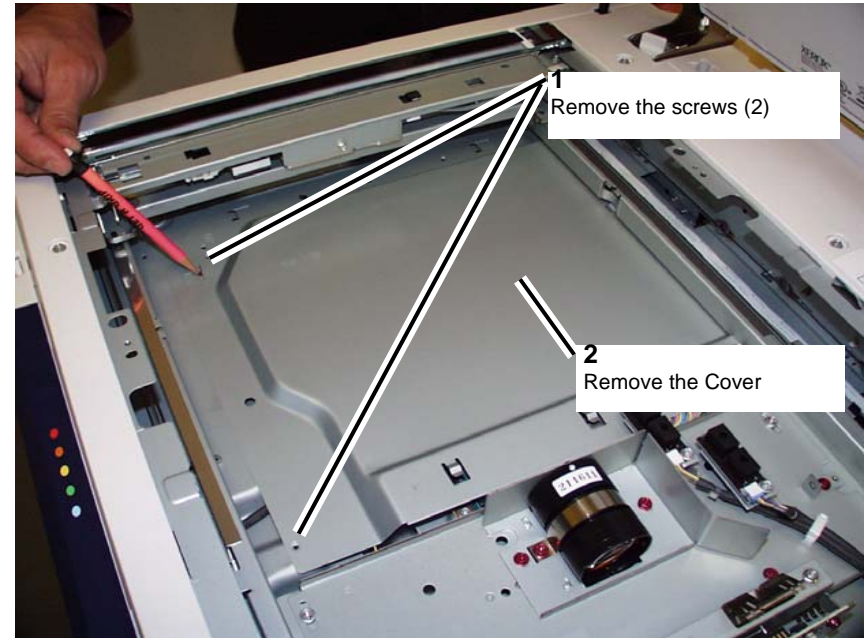


Figure 2 Removing the IPS Cover

5. Disconnect the connector of the Lamp Wire Harness. (Figure 3)
 1. Disconnect the connector.

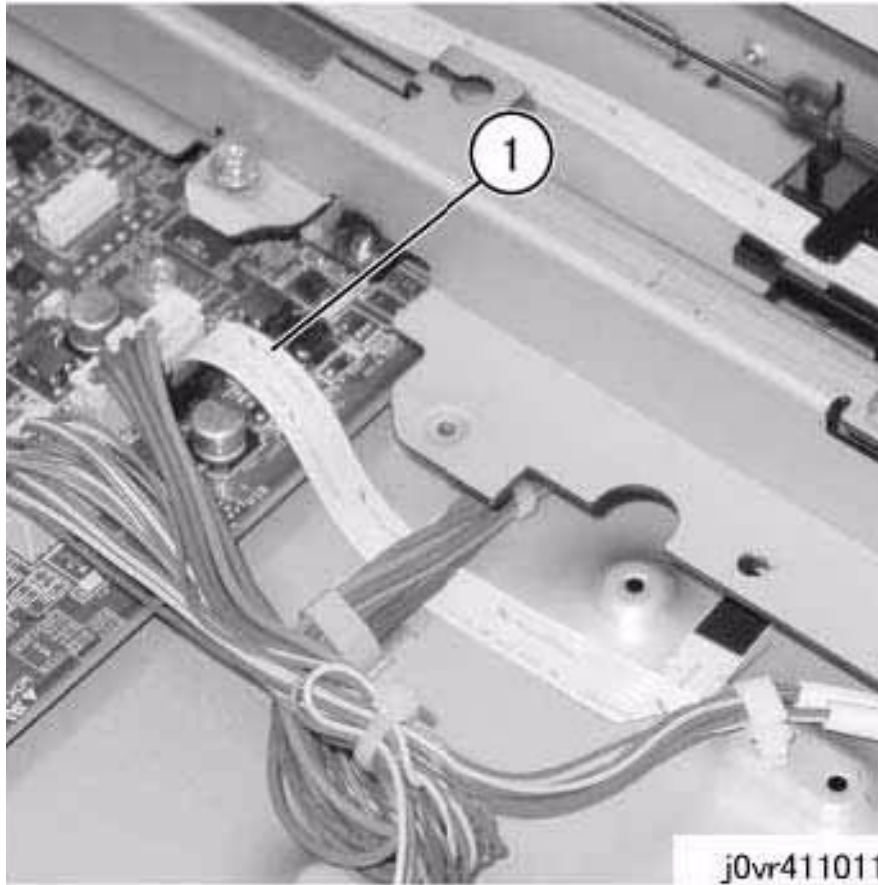


Figure 3 Disconnecting the connector (j0st41125)

6. Release the Lamp Wire Harness from the hook. (Figure 4)
 1. Release the Lamp Wire Harness from the hooks.
 2. Remove the Harness from the frame opening.

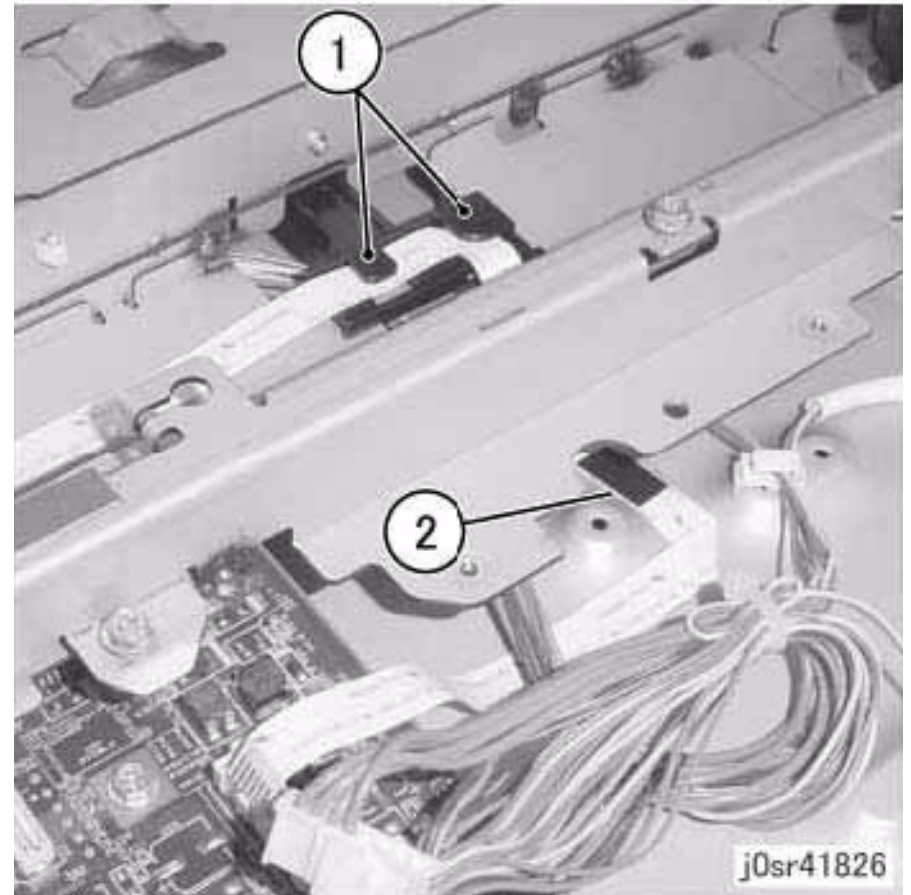


Figure 4 Release the Lamp Wire Harness from the hook

3. Remove the Full Rate Carriage. (Figure 5)
 1. Remove the screws (2).
 2. Remove the Full Rate Carriage.

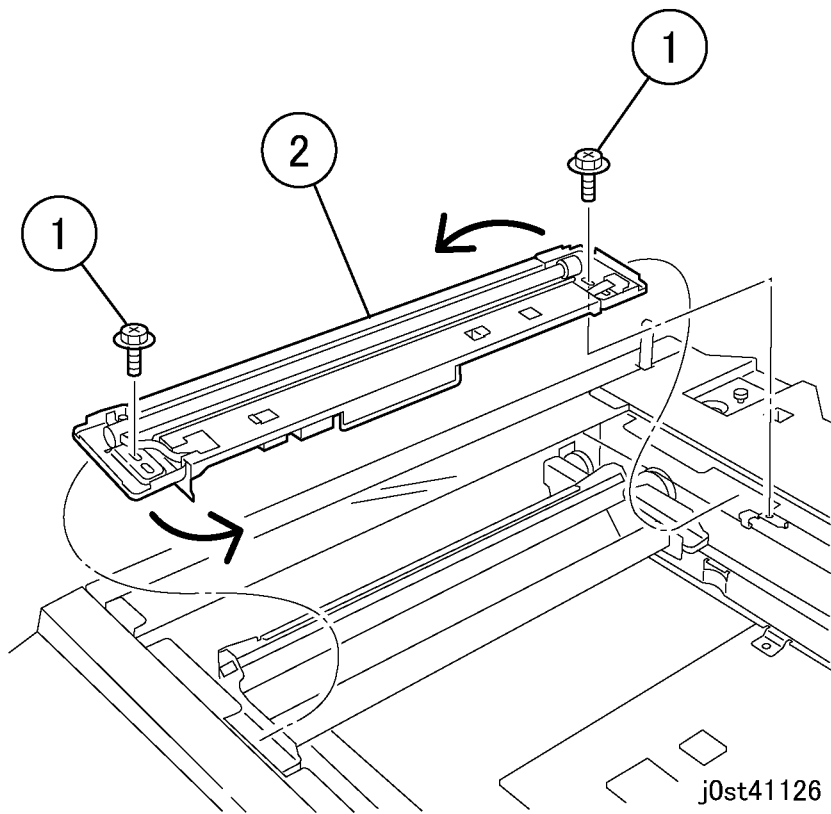


Figure 5 Removing the Full Rate Carriage (j0st41126)

4. Remove the Lamp Wire Harness from the Full Rate Carriage. (Figure 6)
 1. Turn over the Full Rate Carriage.
 2. Remove the screw.
 3. Remove the guide.
 4. Disconnect the connector.
 5. Remove the Lamp Wire Harness.

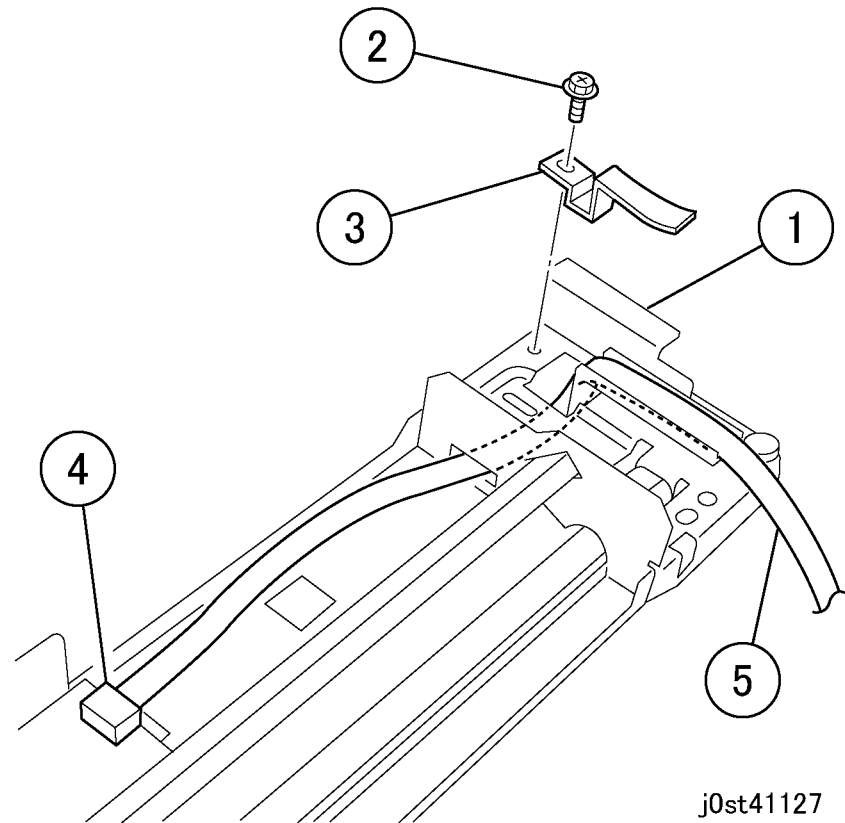


Figure 6 Removing the Lamp Wire Harness (j0st41127)

Replacement

1. Install the Lamp Wire Harness by aligning it with the marks as shown in the figure. (Figure 7)
2. To install, carry out the removal steps in reverse order.

NOTE: Adjust the positions of the Full Rate/Half Rate Carriages after installation. (ADJ 11.6.1)

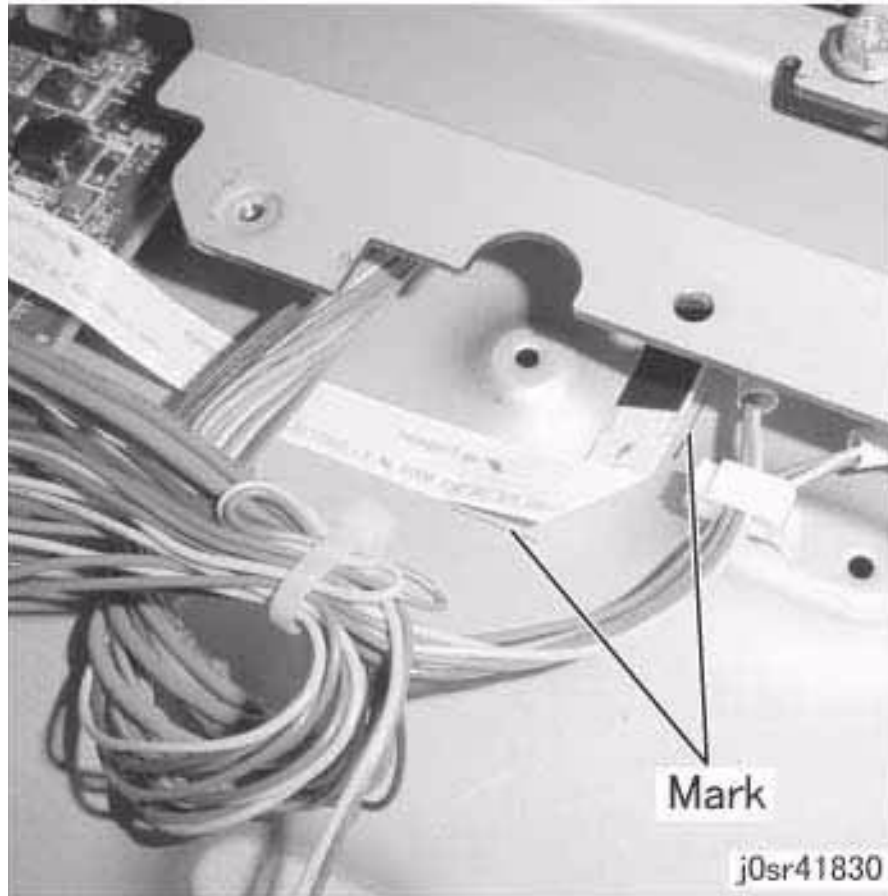


Figure 7 Installing the Lamp Wire Harness

REP 12.1.1 Tray 2 Feeder (2TM)

Parts List on PL 14.1

Removal

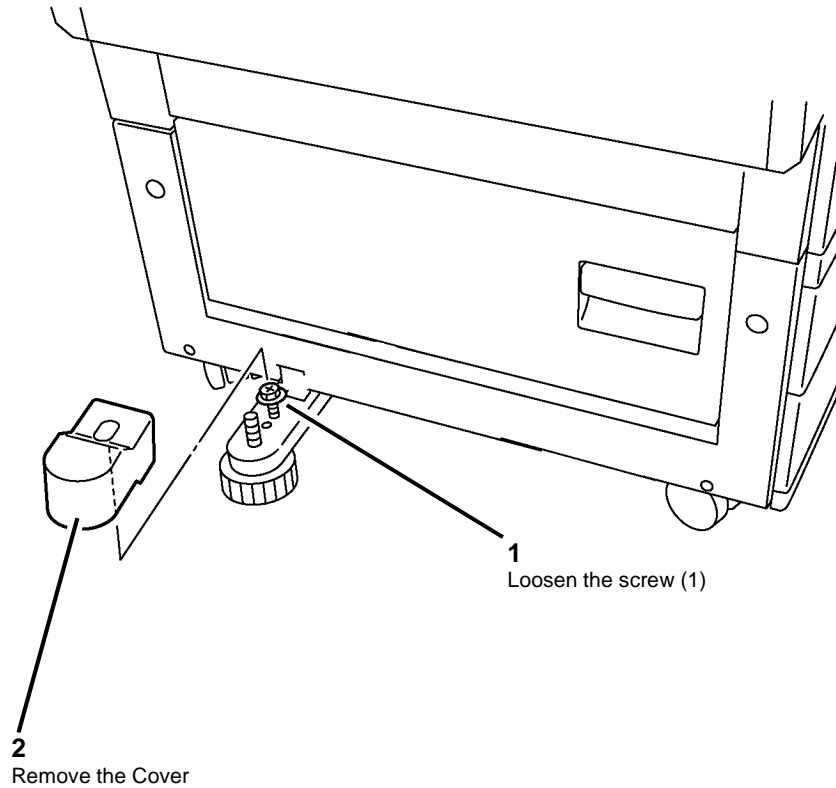
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

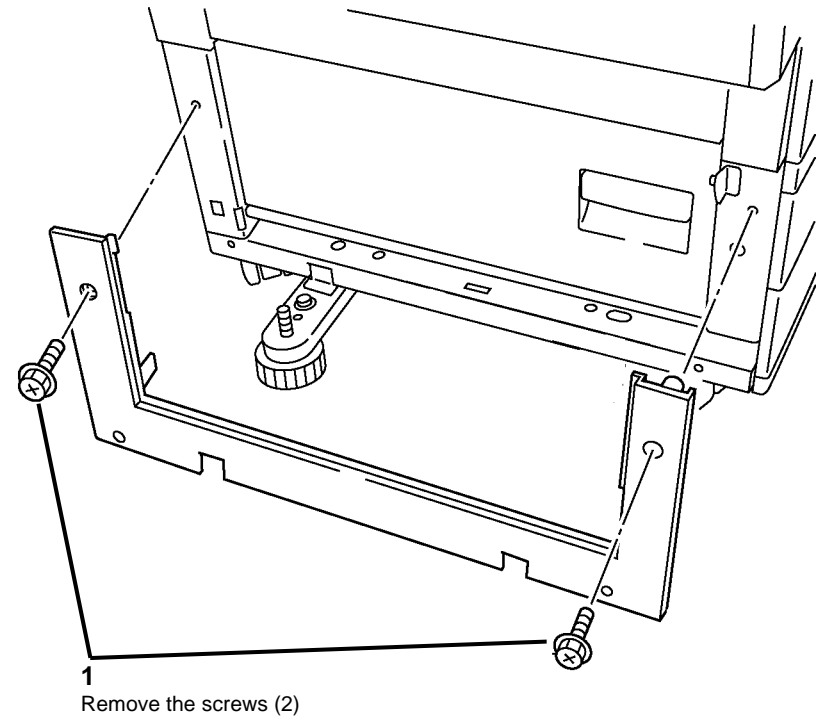
1. Pull out Tray 2.
2. Remove the Foot Cover. (Figure 1)



j0tp41201

Figure 1 Removing the Foot Covers

3. Remove the Left Lower Cover. (Figure 2)



j0st41213

Figure 2 Removing the Left Lower Cover

4. Open the Left Cover Assembly.
5. Remove the bracket. (Figure 3)
 1. Remove the screw.
 2. Remove the screw.

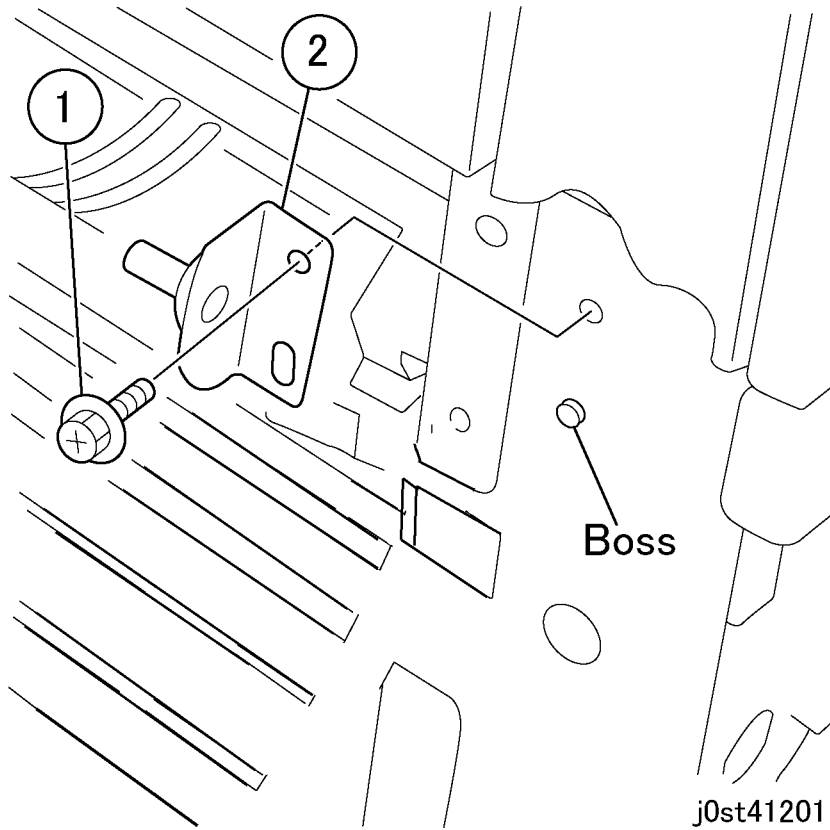


Figure 3 Removing the bracket

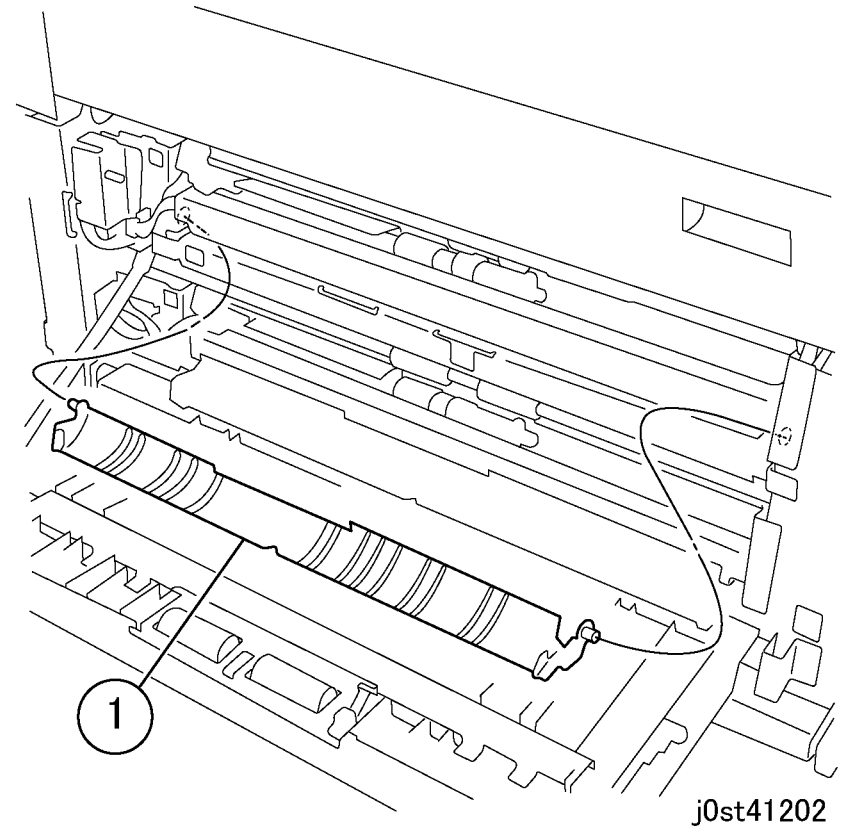


Figure 4 Removing the Feed Out Chute

6. Remove the Feed Out Chute. (Figure 4)
 1. Remove the Feed Out Chute.

7. Disconnect the connector. (Figure 5)
 1. Disconnect the connector.
 2. Release the clamp to remove the wire.

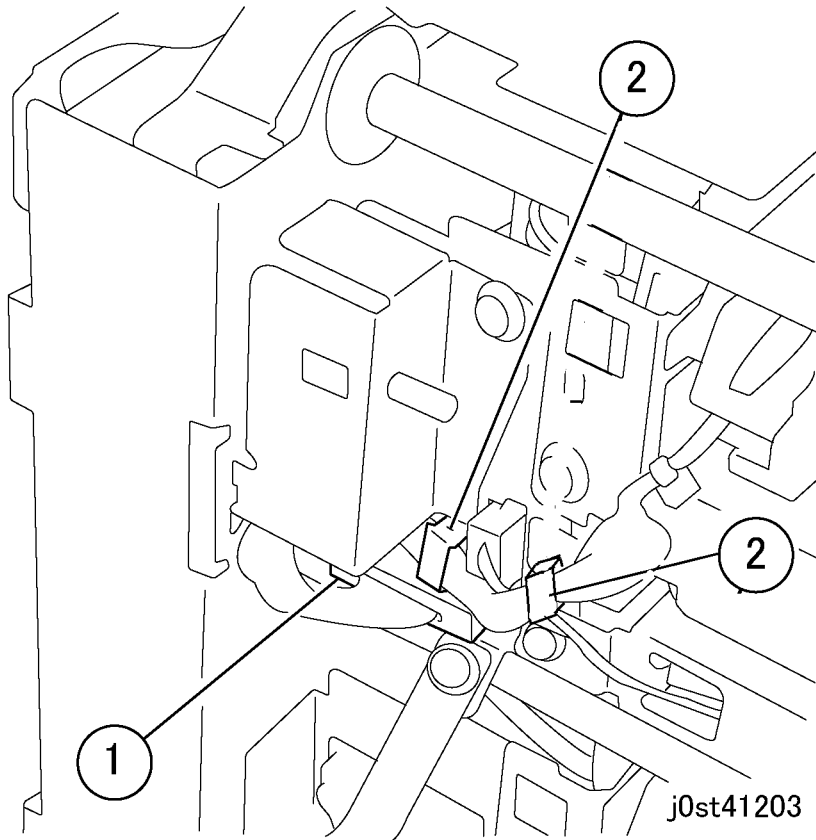


Figure 5 Disconnecting the connector

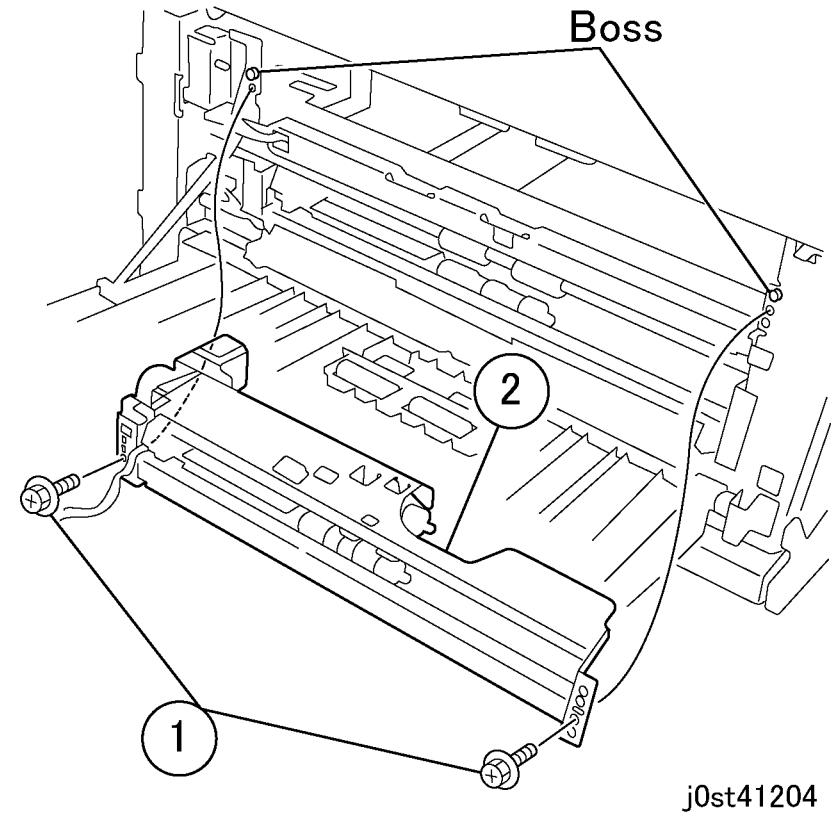


Figure 6 Removing the Tray 2 Feeder

8. Remove the Tray 2 Feeder. (Figure 6)
 1. Remove the screws (2).
 2. Remove the Tray 2 Feeder.

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.

REP 12.1.2 Tray 3 Feeder (2TM)

Parts List on PL 14.1

Removal

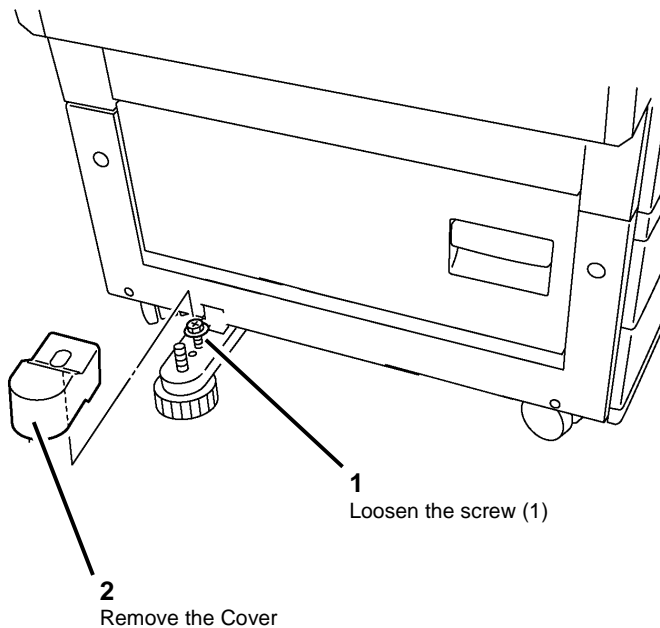
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

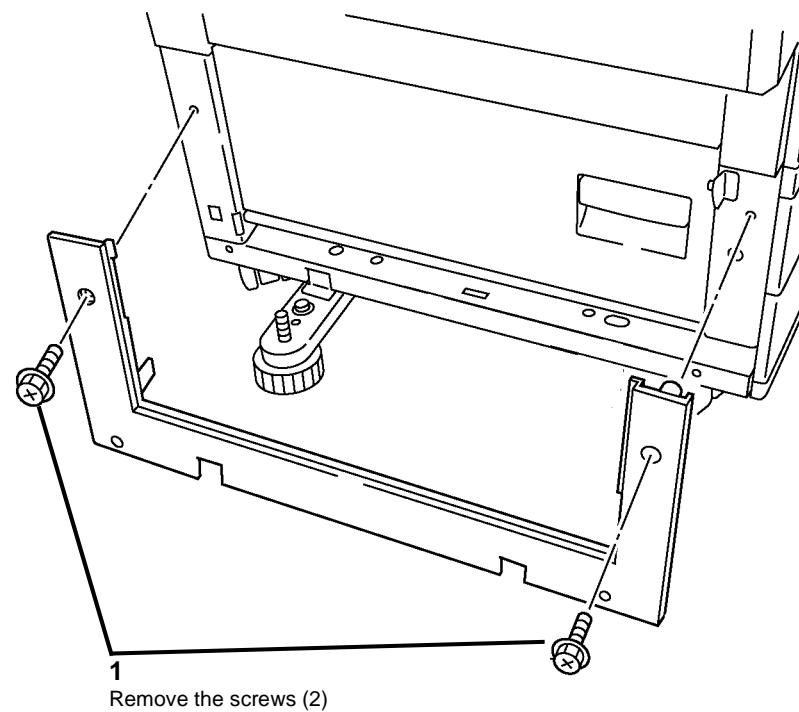
1. Pull out Tray 2/3.
2. Remove the Foot Covers. (Figure 1)



j0tp41201

Figure 1 Removing the Foot Covers

3. Remove the Left Lower Cover. (Figure 2)



j0st41213

Figure 2 Removing the Left Lower Cover

4. Open the Left Cover Assembly.
5. Remove the screws. (Figure 3)
 1. Remove the screws.

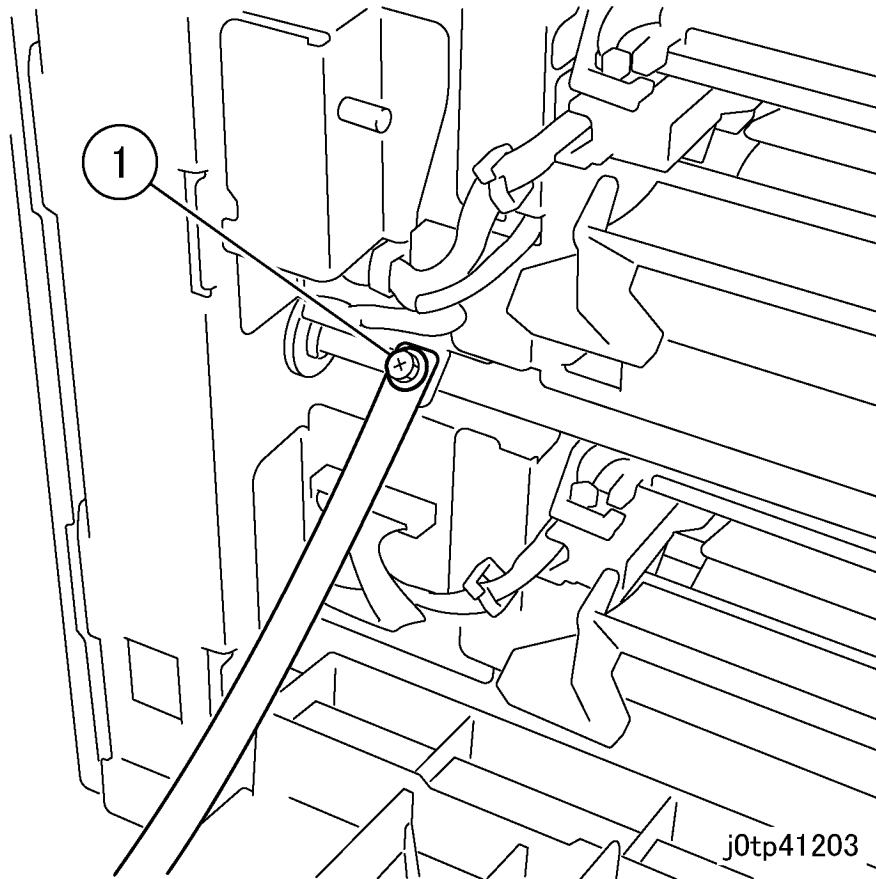


Figure 3 Removing the screws

6. Remove the Feed Out Chute. (Figure 4)
 1. Remove the Feed Out Chute.

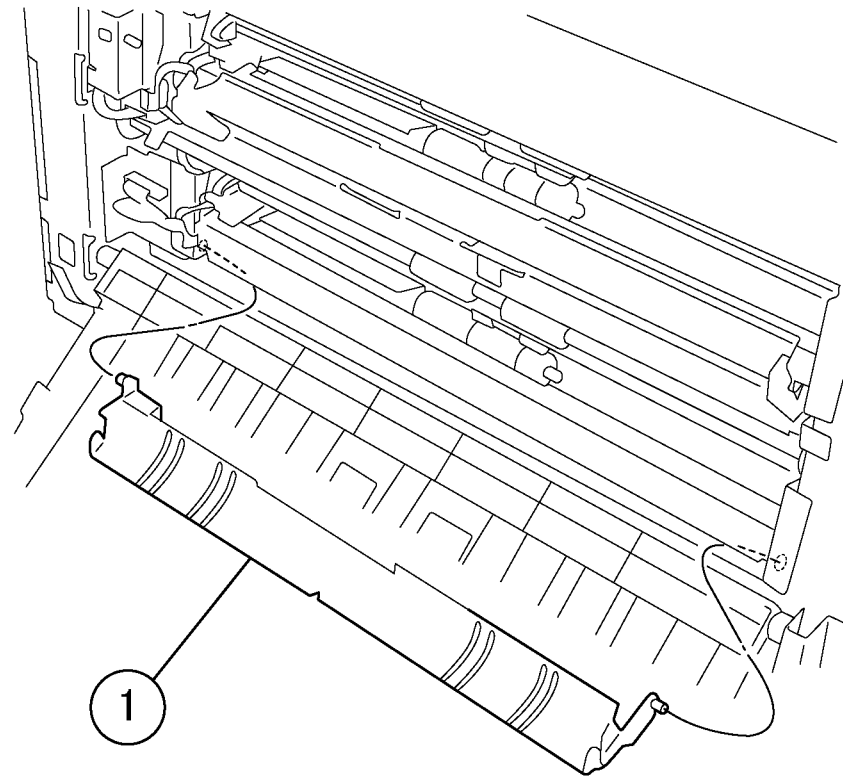


Figure 4 Removing the Feed Out Chute

7. Disconnect the connector. (Figure 5)
 1. Disconnect the connector.
 2. Release the clamp to remove the wire.

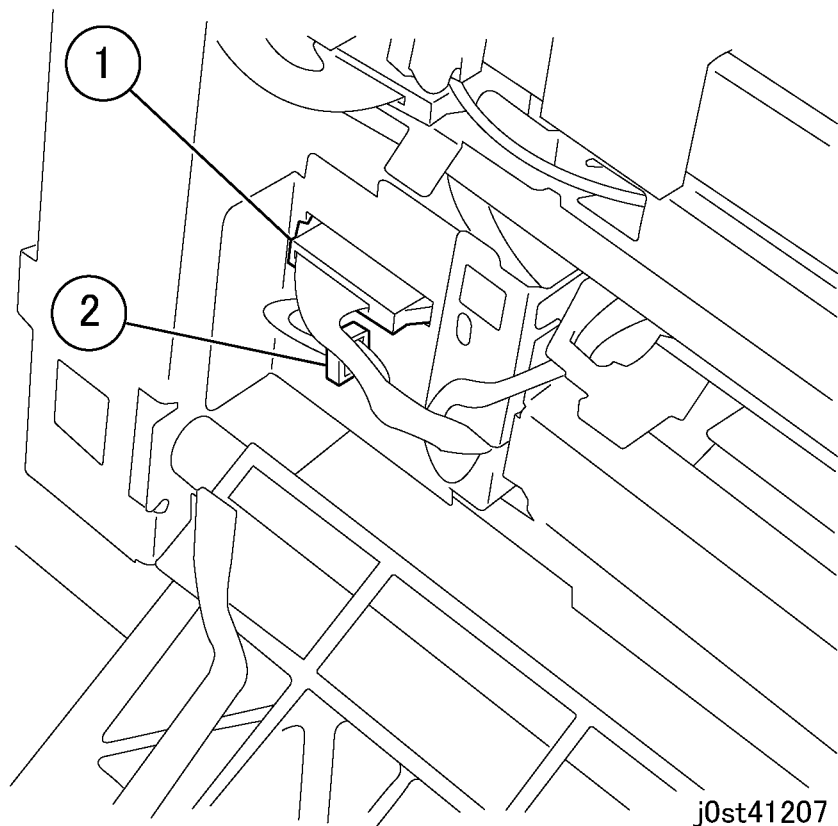


Figure 5 Disconnecting the connector

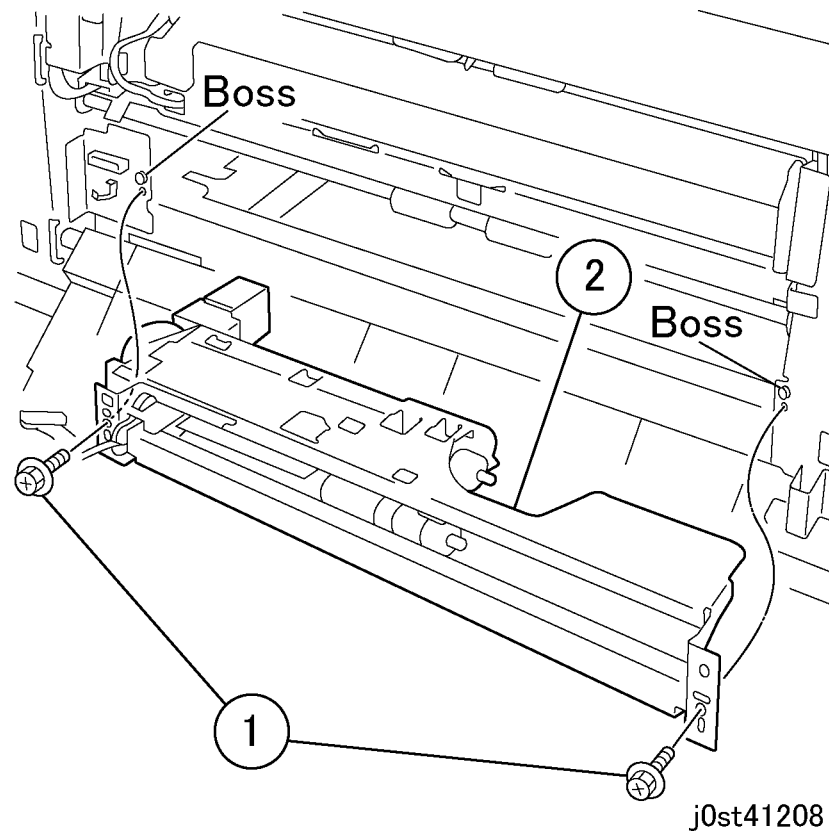


Figure 6 Removing the Tray 3 Feeder

8. Remove the Tray 3 Feeder. (Figure 6)
 1. Remove the screws (2).
 2. Remove the Tray 3 Feeder.

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.

REP 12.3.1 Feed/Retard/Nudger Roll (2TM)

Parts List on PL 14.4

Removal

WARNING

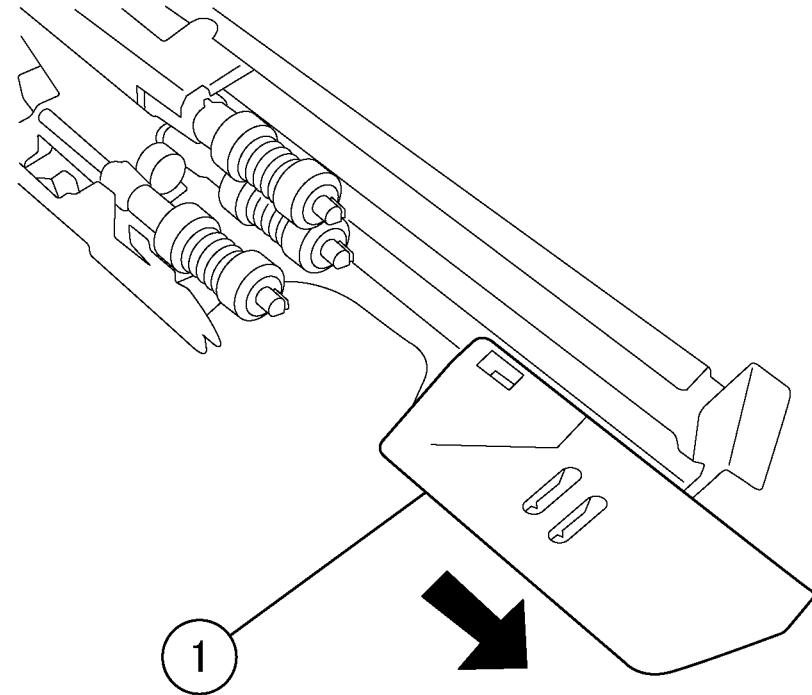
To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

NOTE: The Feed, Retard and Nudger Roll must be replaced at the same time.

1. Remove the paper tray for the Feed, Retard and Nudger Roll to be replaced.
 - a. Pull out tray and remove paper.
 - b. Ensure tray is pulled out to the stop.
 - c. Lift end and pull out to remove.
2. Remove the Tray 2/3 Feeder.
 - Tray 2 Feeder (REP 12.1.1)
 - Tray 3 Feeder (REP 12.1.2)
3. Move the Front Chute in the direction of the arrow. (Figure 1)
 1. Move the Front Chute.



j0st41209

Figure 1 Moving the Front Chute

4. Remove the Feed/Retard/Nudger Roll. (Figure 2)
 1. Release the hooks (3) to remove the Feed/Retard/Nudger Roll.

REP 12.6.1 2TM PWB

Parts List on PL 14.7

Clean

Replacement

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Before replacing the 2TM PWB, read and record the values at NVM location 742-022 and 742-023.
2. When replacing the 2TM PWB, set the 2TM PWB Dip Switch to the position as shown. (Figure 1)

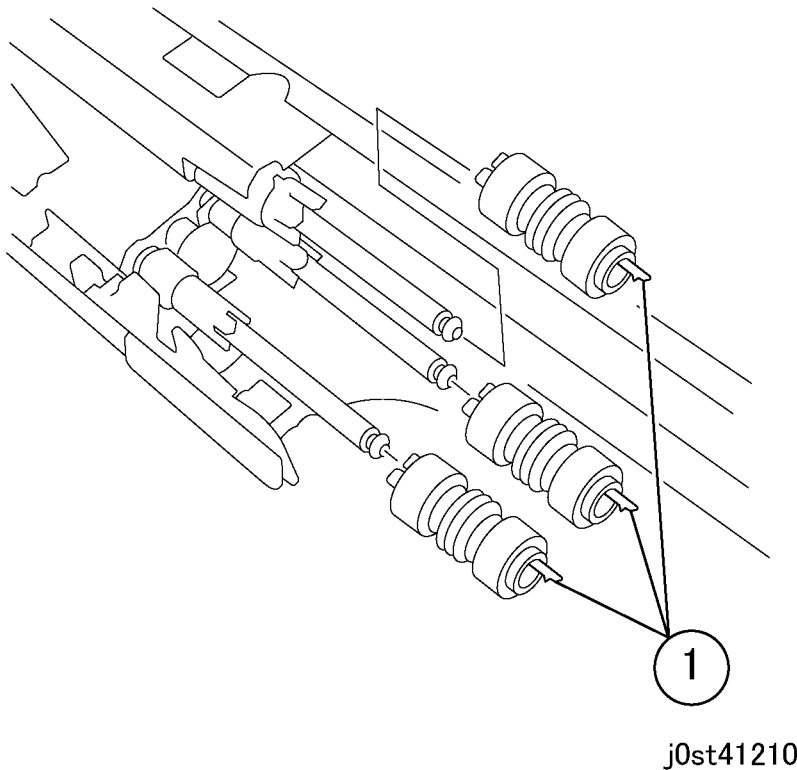
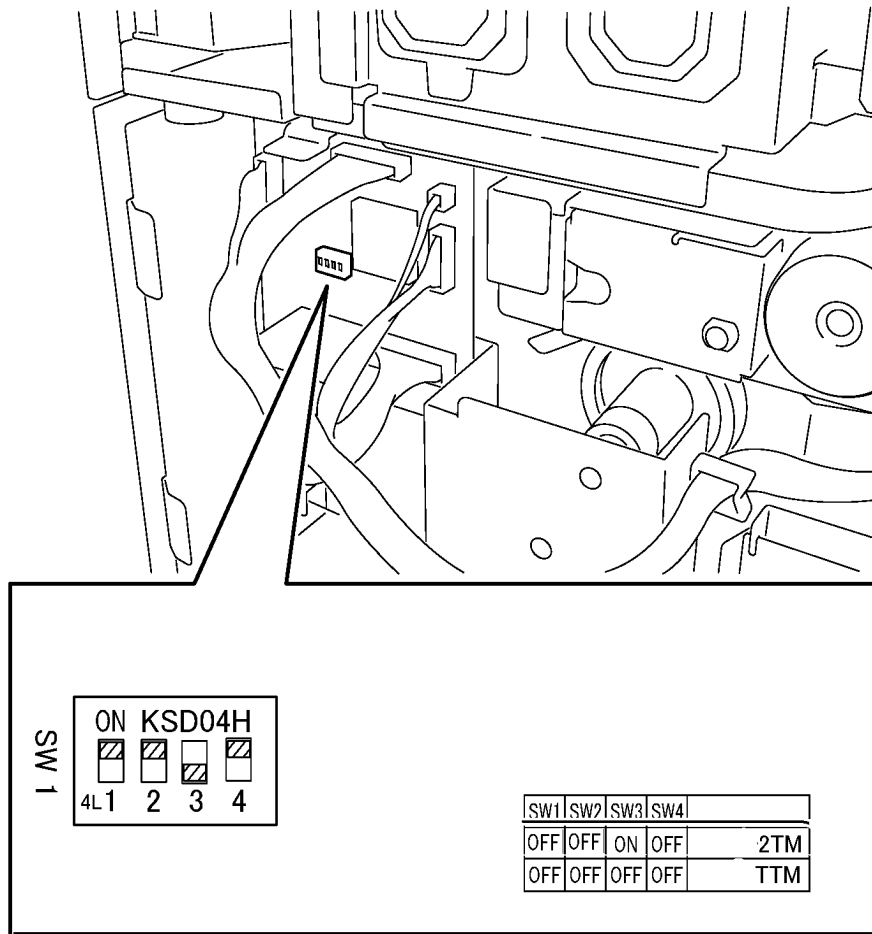


Figure 2 Removing the Feed/Retard/Nudger Roll

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.



j0tp41204

Figure 1 Setting the Dip Switch

- After replacing the 2TM PWB, restore the original values to NVM locations 742-022 and 742-023.

REP 13.1.1 Tray 2 Assembly (TTM)

Parts List on PL 15.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Pull out Tray 2.
2. Remove the paper from Tray 2.
3. Open the Left Cover Assembly.
4. Remove the Tray 2 Assembly. (Figure 1)
 1. Remove the screw.
 2. Slide the stopper.
 3. Remove the Tray 2 Assembly.

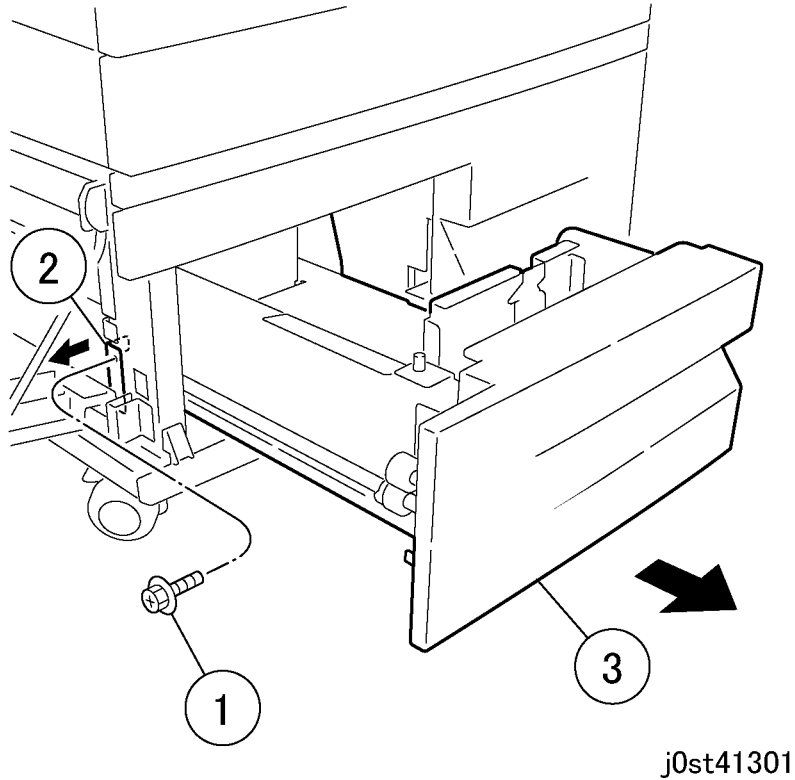


Figure 1 Removing the Tray 2 Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.1.2 Tray 3 Assembly (TTM)

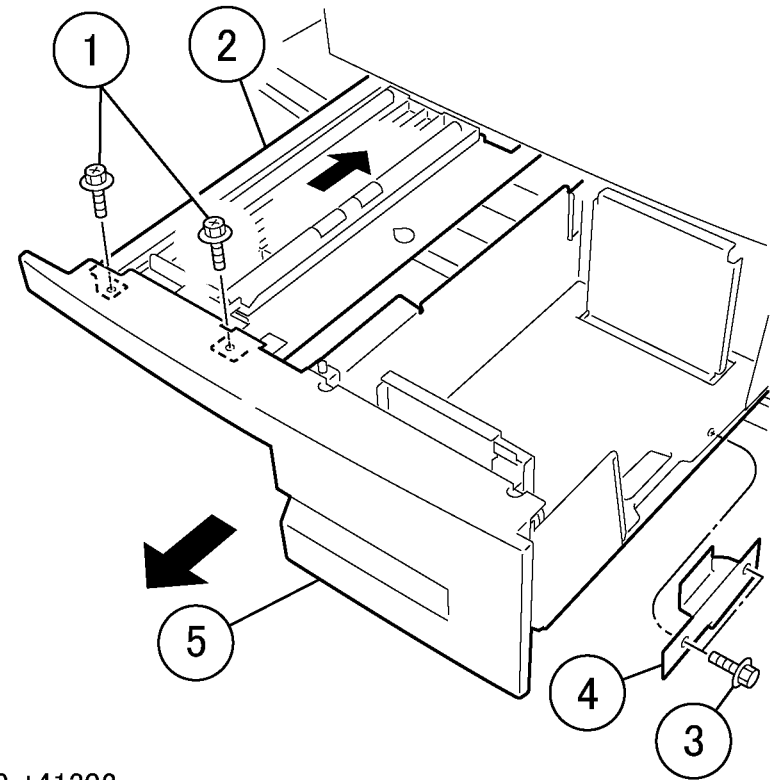
Parts List on PL 15.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Pull out Tray 3.
2. Remove the paper from Tray 3.
3. Remove the Tray 3 Assembly. (Figure 1)
 1. Remove the screws (2).
 2. Push in Tray 3 Transport Assembly.
 3. Remove the screw.
 4. Remove the stopper.
 5. Remove the Tray 3 Assembly.



j0st41302

Figure 1 Removing the Tray 3 Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.3.1 Front/Rear Tray Cable (TTM)

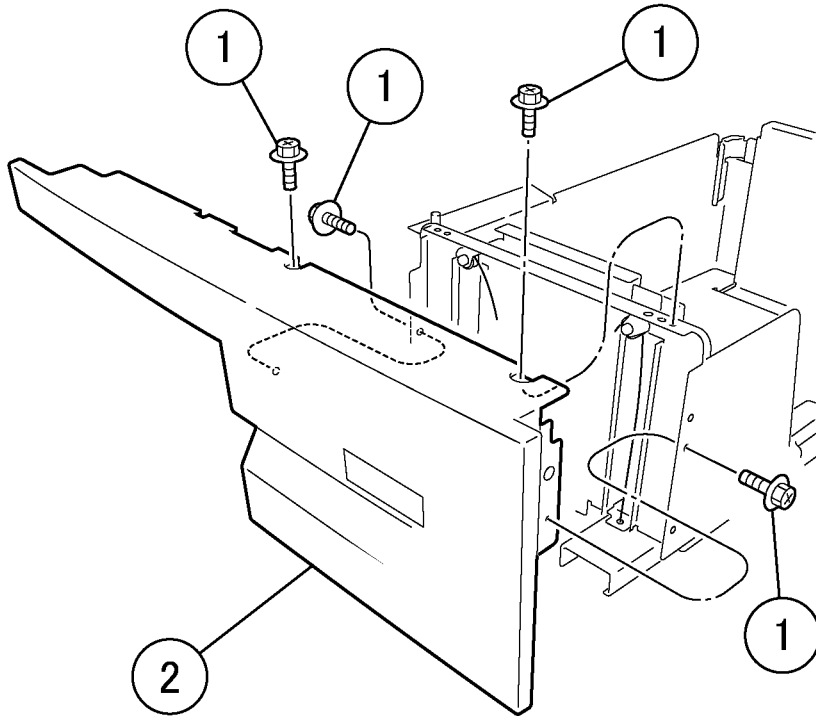
Parts List on PL 15.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Tray 3 Assembly. (REP 13.1.2)
2. Remove the Tray 3 Cover together with the frame. (Figure 1)
 1. Remove the screws (4).
 2. Remove the Tray 3 Cover together with the frame.



j0st41303

Figure 1 Removing the Tray 3 Cover

3. Remove the Tray Cable. (Figure 2)

NOTE: Only the replacement procedure for the Front Tray Cable is described here. The Rear Tray Cable is removed in the same way.

1. Remove the E-Clip.
2. Remove the Cable Guide.
3. Remove the Tray Cable.
4. Remove the E-Clip.
5. Remove the Cable Guide.
6. Remove the Tray Cable.

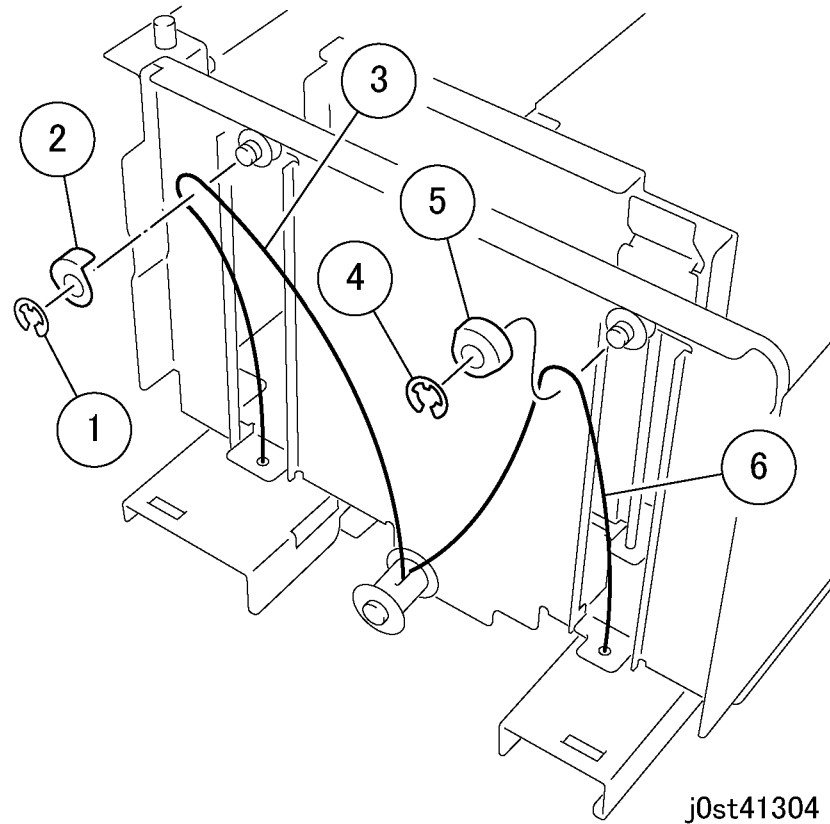


Figure 2 Removing the Tray Cable

4. Remove the Left Shaft Assembly to remove the Tray Cable. (Figure 3)
 1. Remove the E-Clip.
 2. Slide the bearings (2).
 3. Remove the Lift Shaft Assembly.

REP 13.4.1 Tray 3 Feeder (TTM)

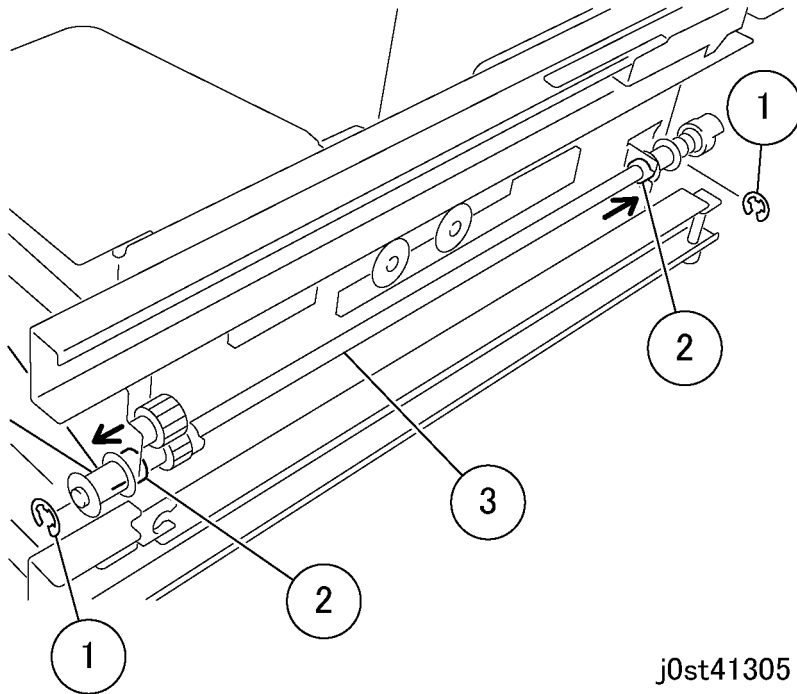
Parts List on PL 15.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the Tray 2 Assembly. (REP 13.1.1)
2. Remove the Tray 3 Assembly. (REP 13.1.2)
3. Remove the Tray 3 Transport Assembly. (Figure 1)
 1. Remove the Tray 3 Transport Assembly.

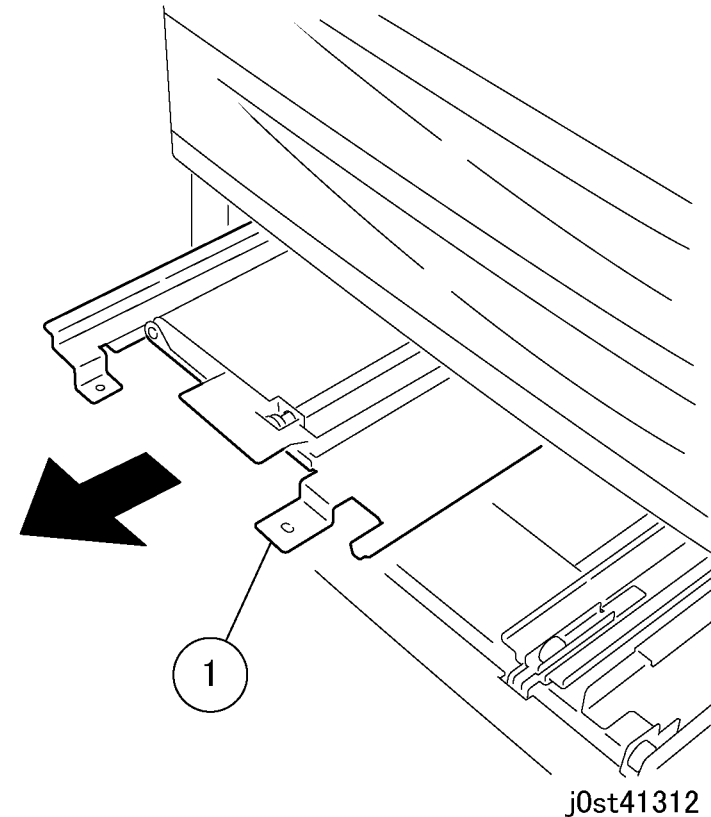


j0st41305

Figure 3 Removing the Left Shaft Assembly to remove the Tray Cable

Replacement

1. To install, carry out the removal steps in reverse order.

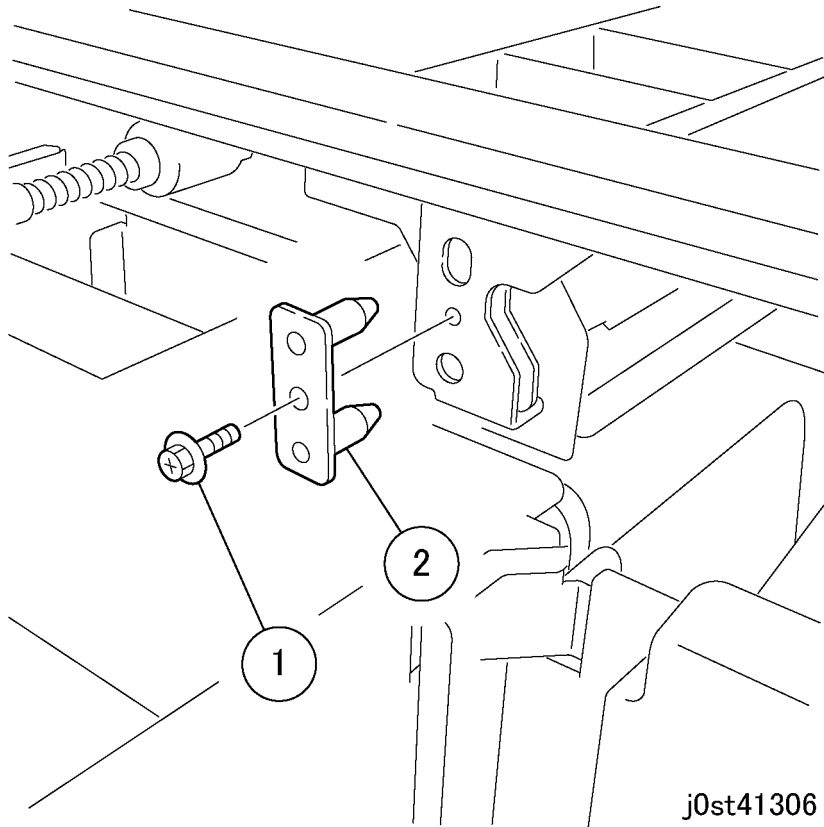


j0st41312

Figure 1 Removing the Tray 3 Transport Assembly

4. Remove the Stud Bracket. (Figure 2)
 1. Remove the screw.

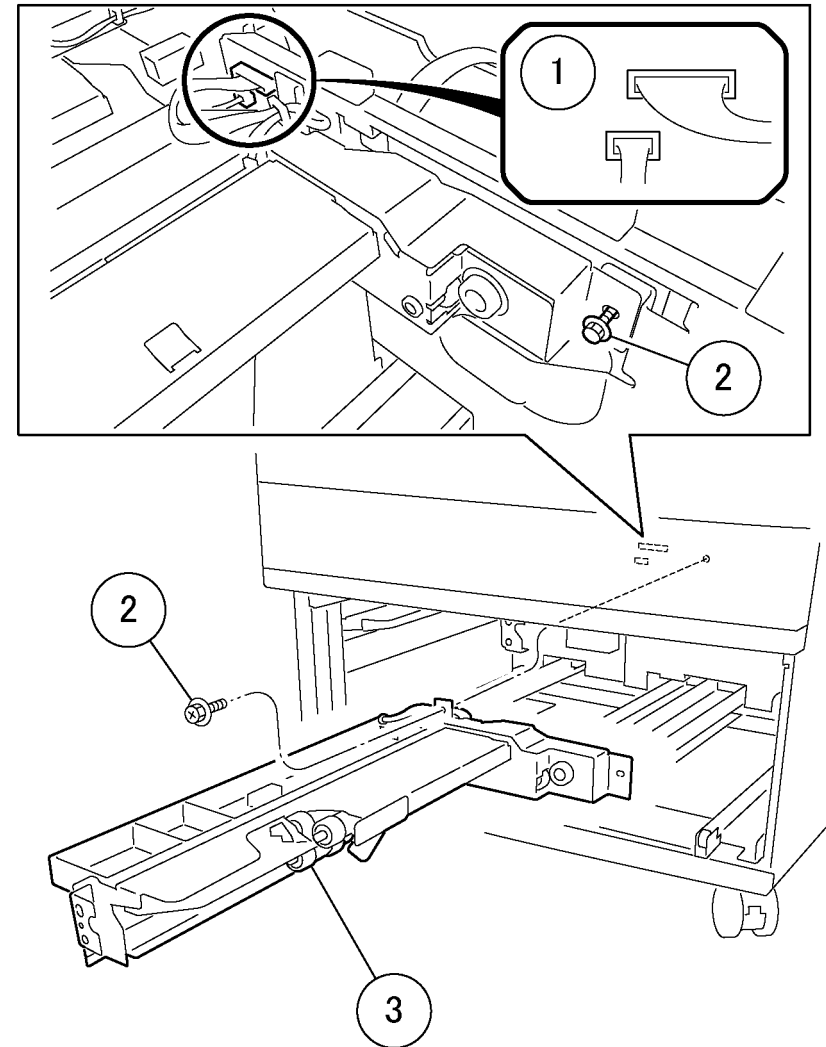
2. Remove the Stud Bracket.



j0st41306

Figure 2 Removing the Stud Bracket

5. Remove the Tray 3 Feeder Assembly. (Figure 3)
 1. Disconnect the connectors (2).
 2. Remove the screws (2).
 3. Remove the Tray 3 Feeder Assembly.

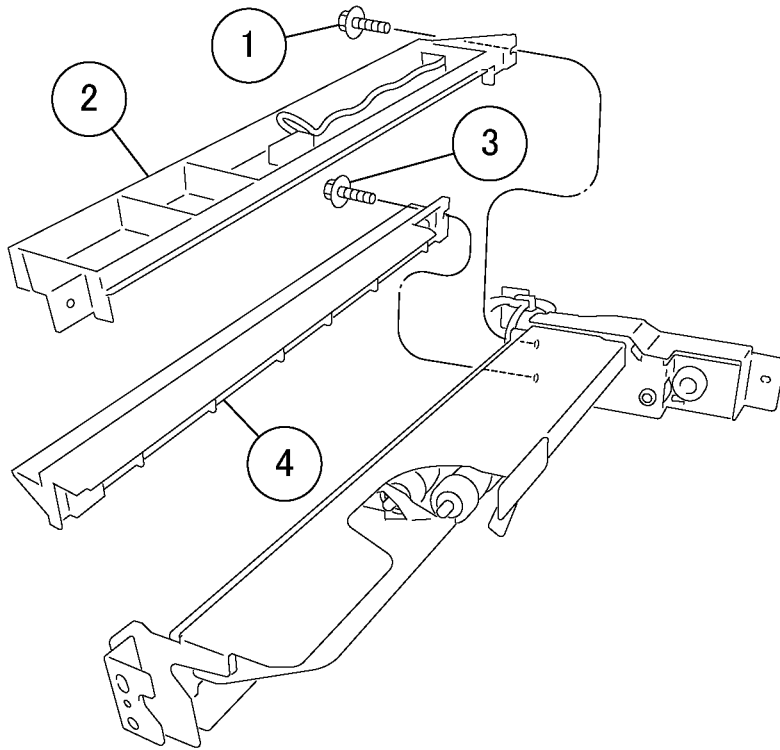


j0st41307

Figure 3 Removing the Tray 3 Feeder Assembly

6. Remove the Tray 3 Feeder. (Figure 4)
 1. Remove the screws (2).
 2. Remove the Upper Chute.

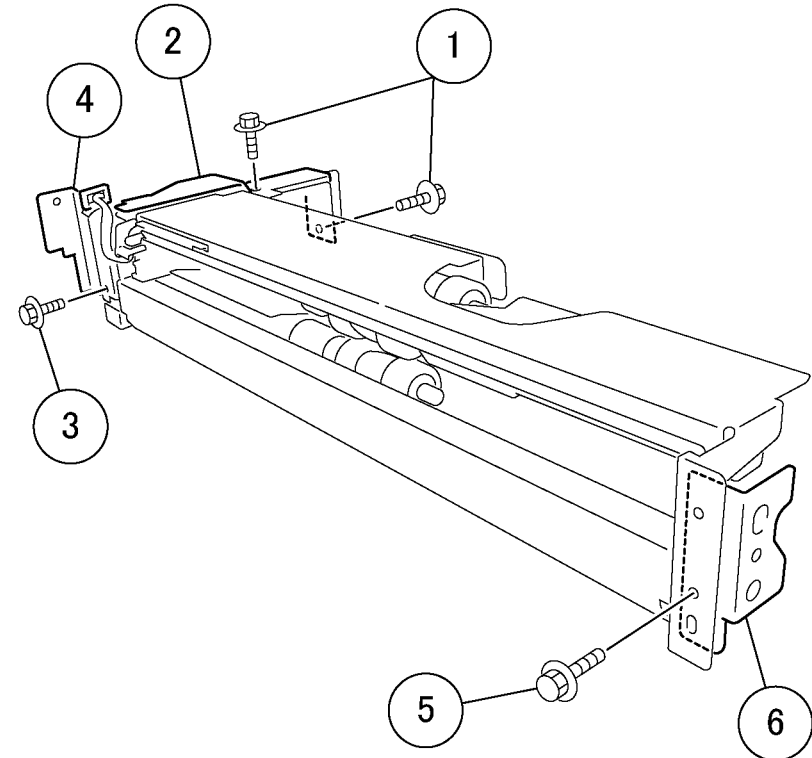
3. Remove the screws (2).
4. Remove the Lower Chute.



j0st41308

Figure 4 Removing the Lower Chute

7. Remove the Tray 3 Feeder. (Figure 5)
 1. Remove the screws (2).
 2. Remove the bracket.
 3. Remove the screw.
 4. Remove the bracket.
 5. Remove the screw.
 6. Remove the bracket.



j0st41309

Figure 5 Removing the Tray 3 Feeder

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.5.1 Tray 2 Feeder (TTM)

Parts List on PL 15.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove Tray 2 (REP 13.1.1).
2. Open the Left Cover.
3. Remove the Upper/Lower Chute. (Figure 1)
 1. Remove the Upper Chute.
 2. Remove the Lower Chute.

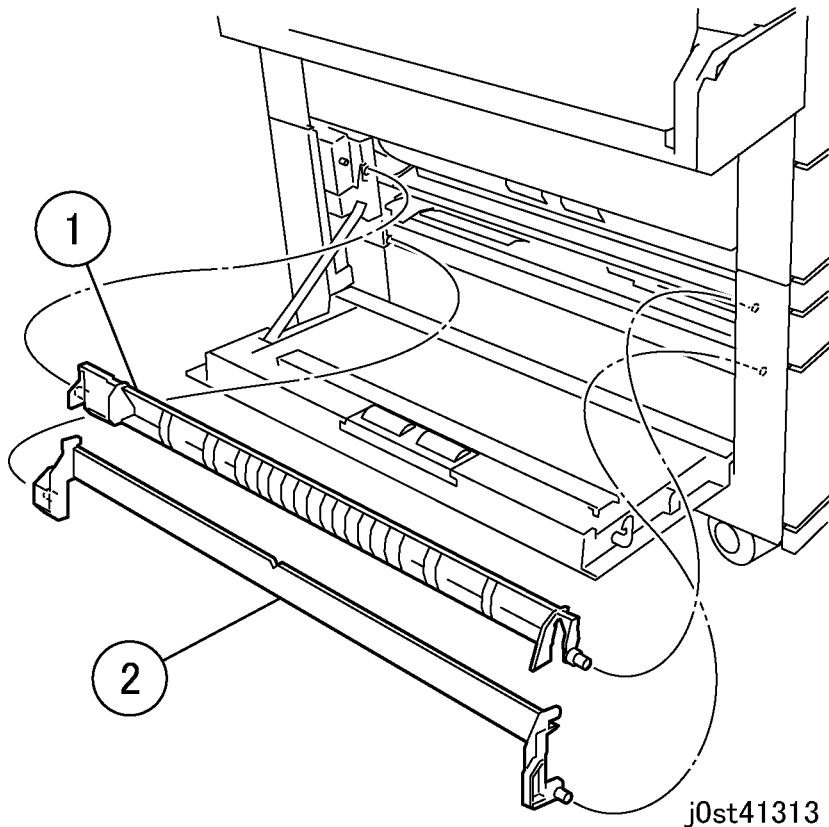
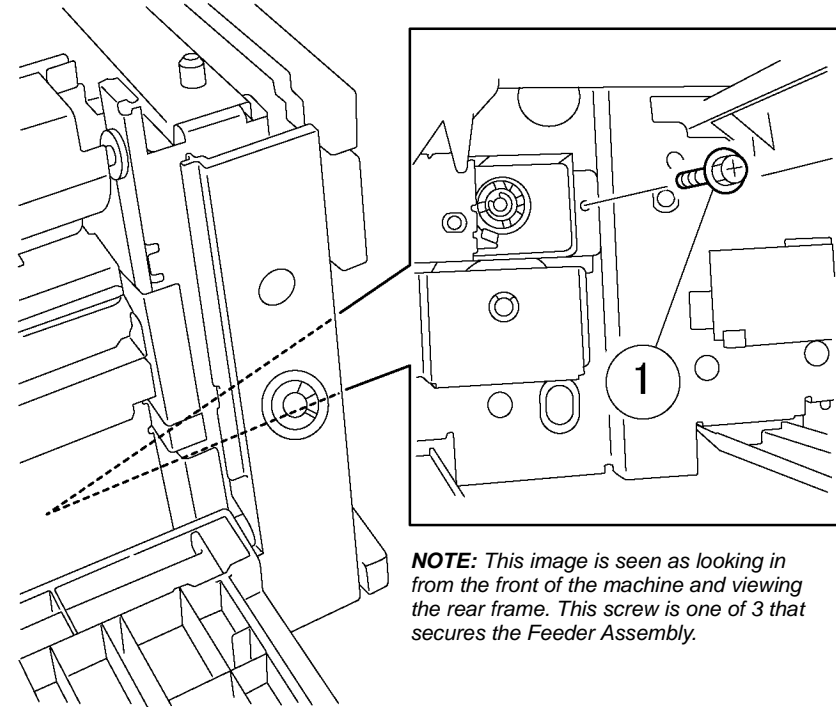


Figure 1 Removing the Upper/Lower Chute

4. Remove the screw. (Figure 2)

1. Remove the screw.



j0st41315

Figure 2 Removing the screw

5. Remove the Tray 2 Feeder Assembly. (Figure 3)
 1. Remove the screws.
 2. Release the Wire Harness from the clamp.
 3. Disconnect the connector.
 4. Remove the screws (2).
 5. Remove the Tray 2 Assembly.

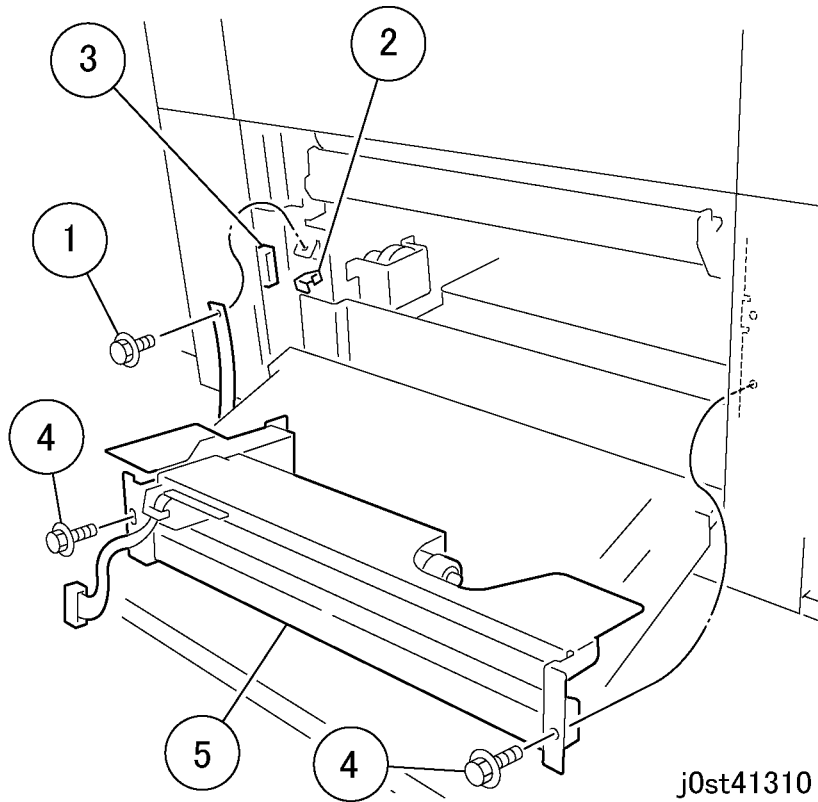


Figure 3 Removing the Tray 2 Assembly

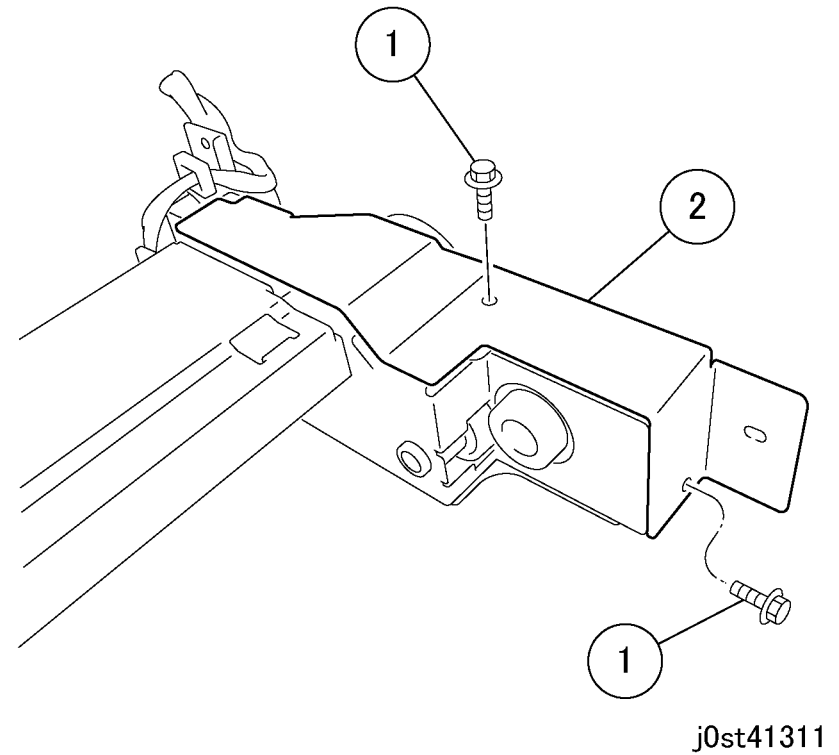


Figure 4 Removing the Tray 2 Feeder

6. Remove the Tray 2 Feeder. (Figure 4)
 1. Remove the screws (2).
 2. Remove the bracket.

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.6.1 Feed/Retard/Nudger Roll (TTM)

Parts List on PL 15.7

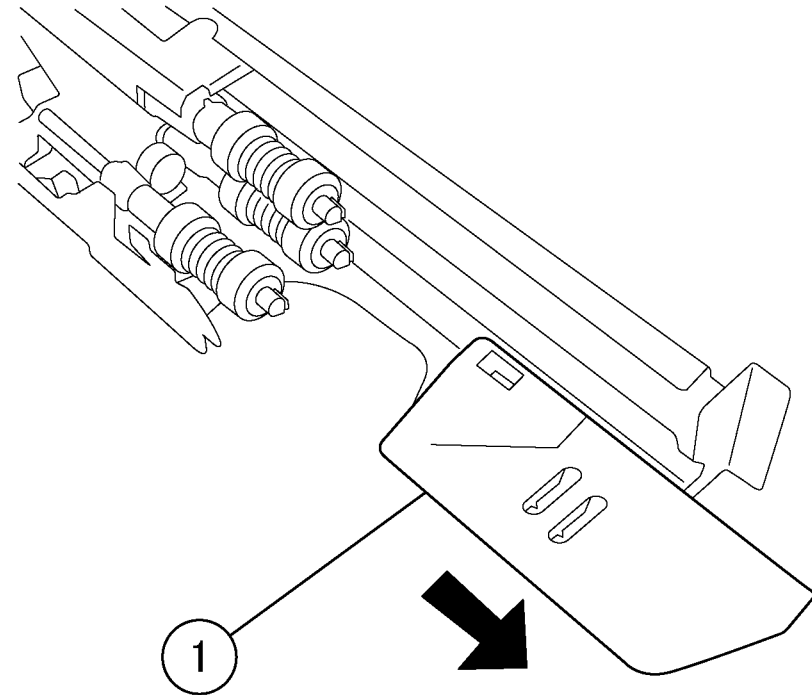
Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

NOTE: The Feed, Retard, and Nudger Roll must be replaced at the same time.

1. Remove the Paper Tray of the Feed Roll, Retard Roll, and Nudger Roll to be removed.
 - Tray 2 (REP 13.1.1)
 - Tray 3 (REP 13.1.2)
2. Pull out tray and remove paper.
3. Move the Front Chute in the direction of the arrow. (Figure 1)
 1. Move the Front Chute.



j0st41209

Figure 1 Moving the Front Chute

4. Remove the Feed/Retard/Nudger Roll. (Figure 2)
 1. Release the hooks (3) to remove the Feed Roll/Retard/Nudger Roll.

REP 13.8.1 TTM PWB

Parts List on PL 15.9

Replacement

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Before replacing the 2TM PWB, read and record the values at NVM location 742-022 and 742-023.
2. When replacing the TTM PWB, set the TTM PWB Dip Switch to the position as shown.
 - Model (Figure 1)

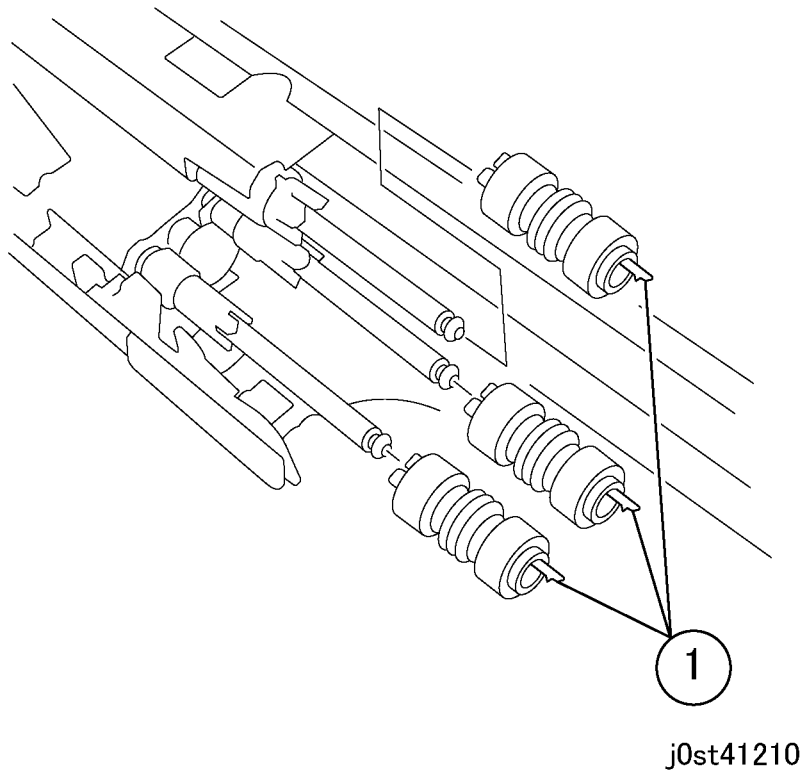
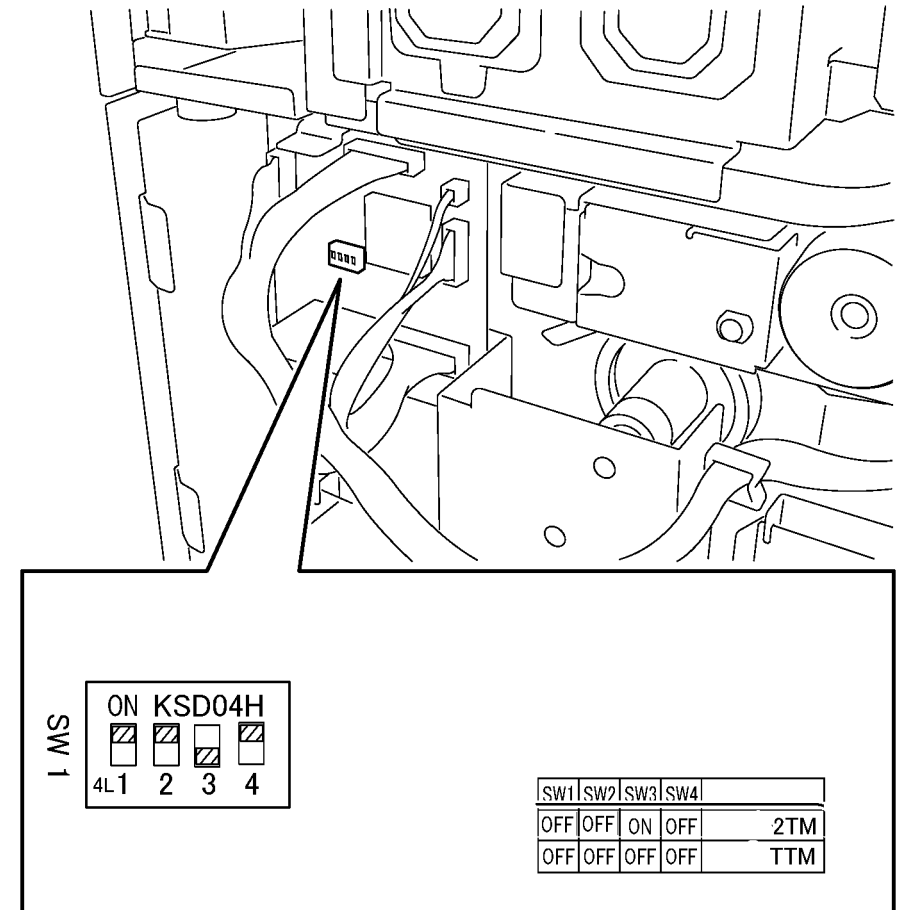


Figure 2 Removing the Feed/Retard/Nudger Roll

Replacement

1. To install, carry out the removal steps in reverse order.



j0tp41204

Figure 1 Setting the Dip Switch

3. After replacing the 2TM PWB, restore the original values to NVM locations 742-022 and 742-023.

REP 15.1.1 DADF

Parts List on PL 16.1

Removal

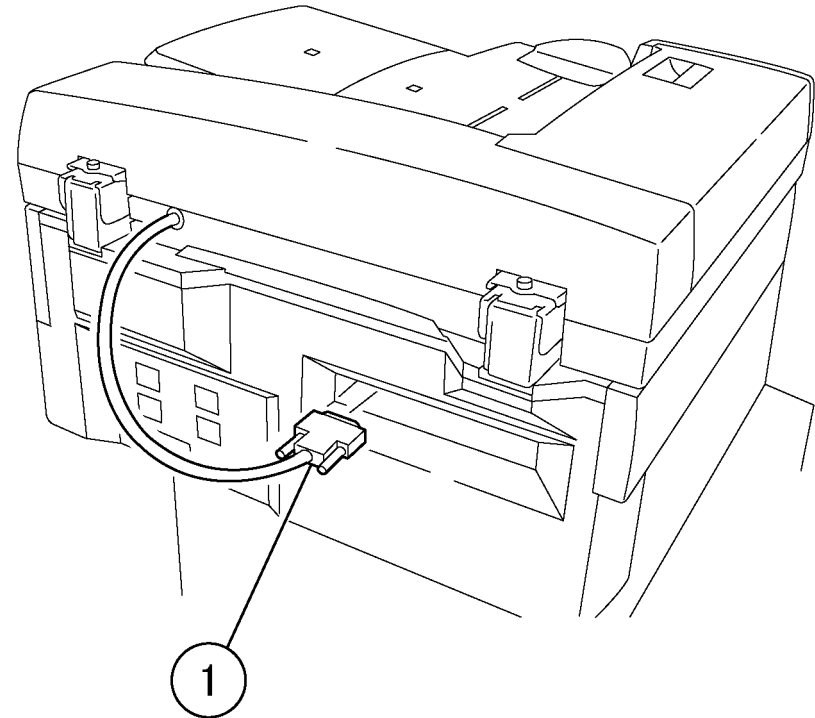
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. Disconnect the connector. (Figure 1)
 1. Loosen the screws (x2) and disconnect the connector.



j0st41501

Figure 1 Disconnecting the connector

2. Remove the DADF. (Figure 2)
 1. Remove the Knob Screws (x2).
 2. Remove the DADF.

Replacement

1. When installing the DADF, push the DADF to the front, then secure. (Figure 3)

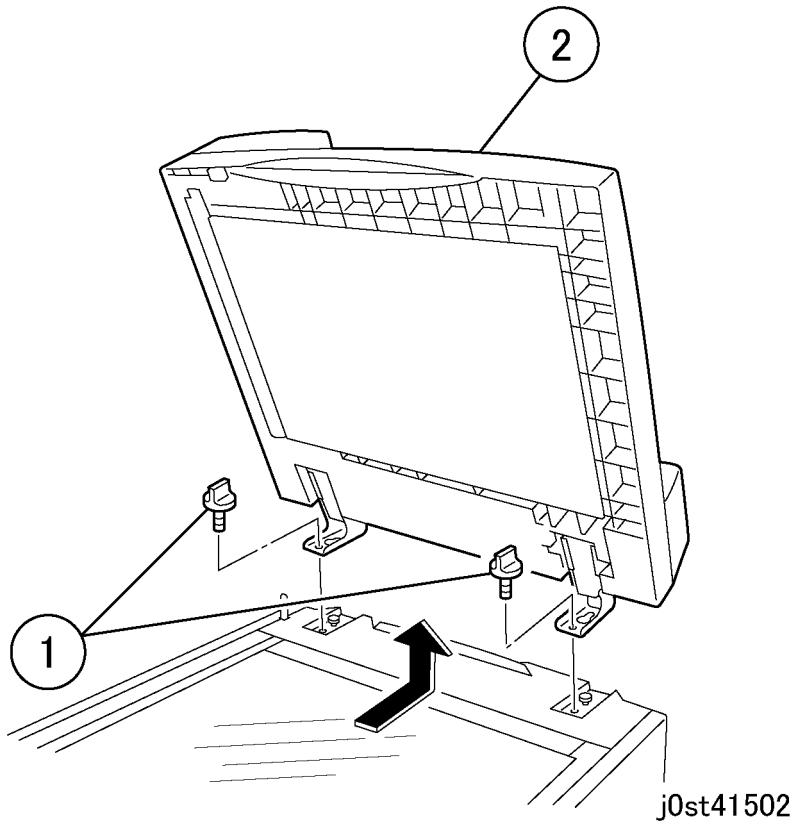


Figure 2 Removing the DADF

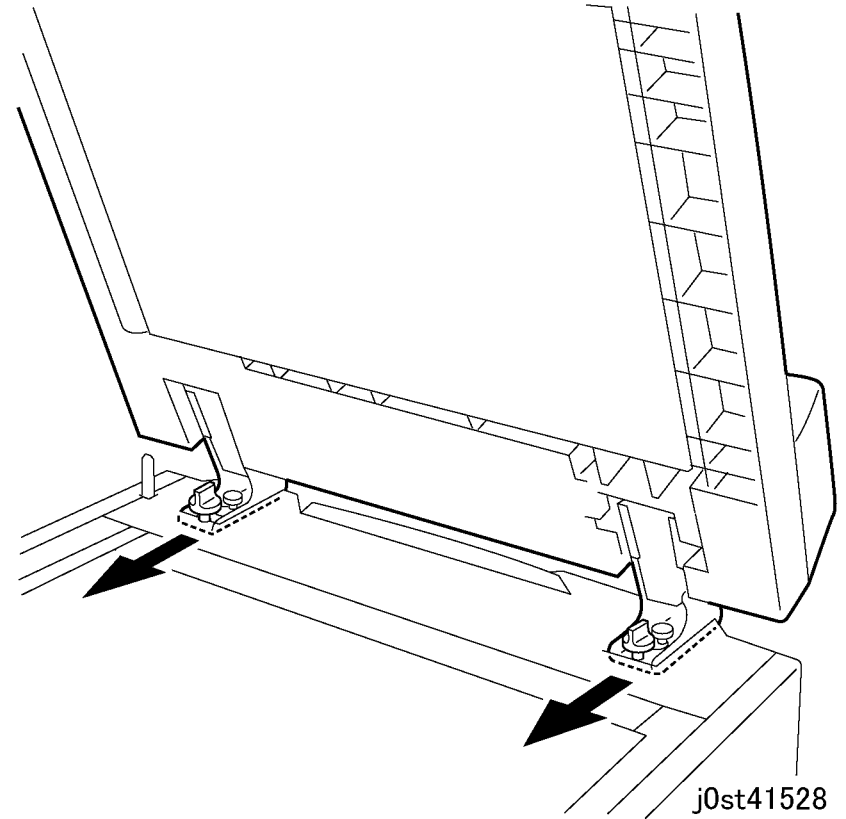


Figure 3 Installing the DADF

REP 15.1.2 DADF Platen Cushion

Parts List on PL 16.1

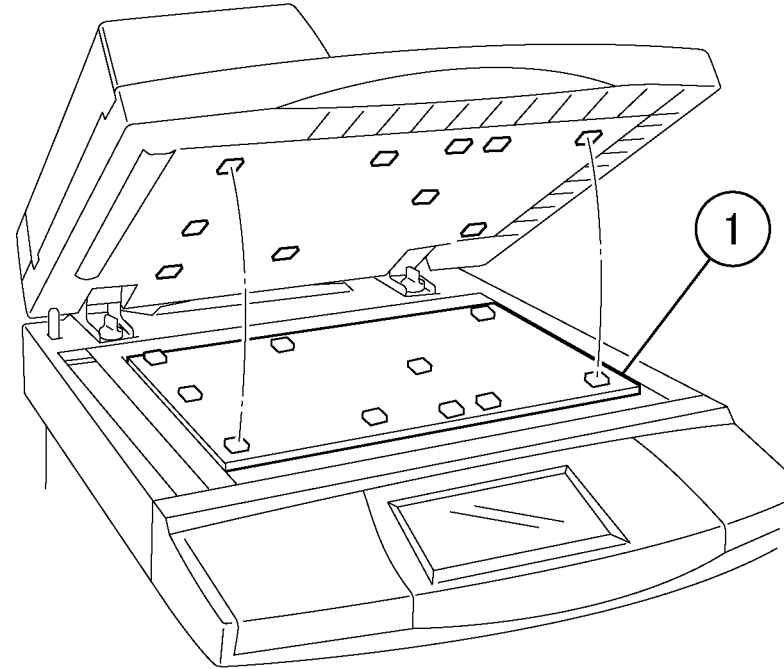
Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

NOTE: The DADF Platen Cushion pasted on with Velcro Fastening.

1. Remove the DADF Platen Cushion. (Figure 1)
 1. Peel off the DADF Platen Cushion from the Velcro Fastening at 10 locations.



j0st41503

Figure 1 Removing the DADF Platen Cushion

2. Paste the DADF Platen Cushion. (Figure 2)
 1. Place the DADF Platen Cushion on the Platen Glass.
 2. Set up the gaps from the Registration Guide and Platen Guide.
 3. Slowly lower the DADF and press on to the Platen Cushion.

REP 15.2.1 DADF Document Tray

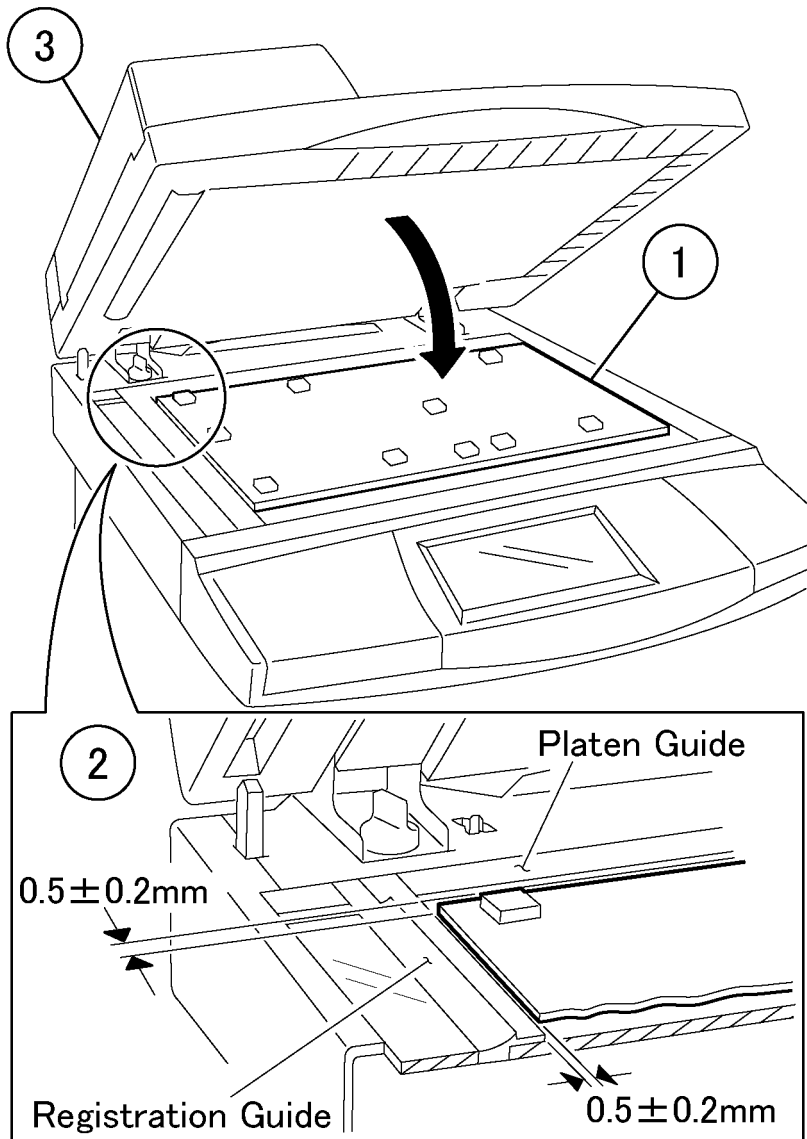
Parts List on PL 16.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the following parts:
 - DADF Front Cover (REP 15.2.3)
 - DADF Rear Cover (REP 15.2.4)
2. Open the Top Cover.
3. Disconnect the connectors. (Figure 1)
 1. Remove the clamp.
 2. Disconnect P/J760.
 3. Disconnect P/J759.
 4. Disconnect the screw (1).
 5. Remove the Earth Wire.
 6. Unhook the Wire Harness (x2).



j0st41504

Figure 2 Installing the DADF Platen Cushion

Replacement

1. To install, carry out the removal steps in reverse order.

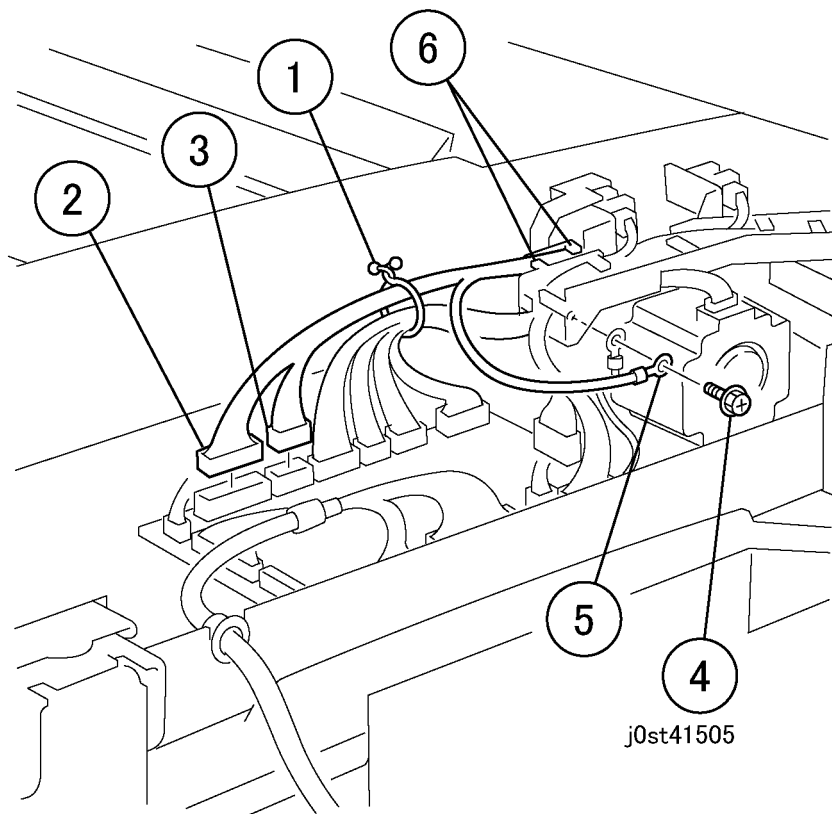


Figure 1 Disconnecting the connectors

4. Remove the DADF Document Tray. (Figure 2)
 1. Remove the Tapping Screws (1).
 2. Remove the Tray Holder.
 3. Remove the DADF Document Tray.
 4. Pull out the Wire Harness.

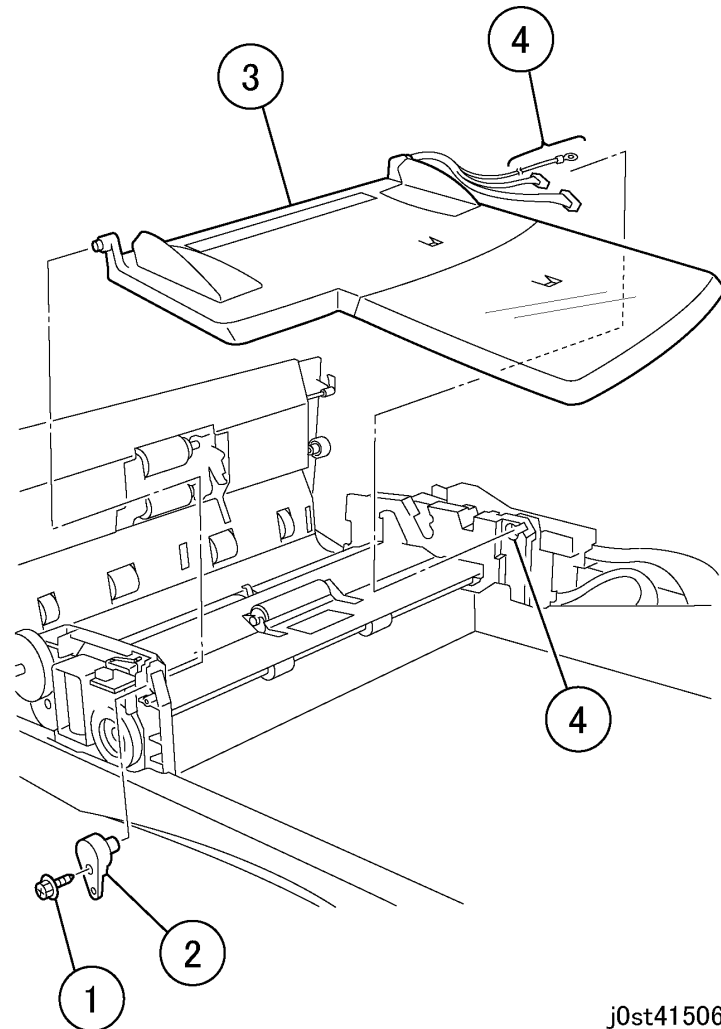


Figure 2 Removing the DADF Document Tray

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.2 DADF Feeder Assembly

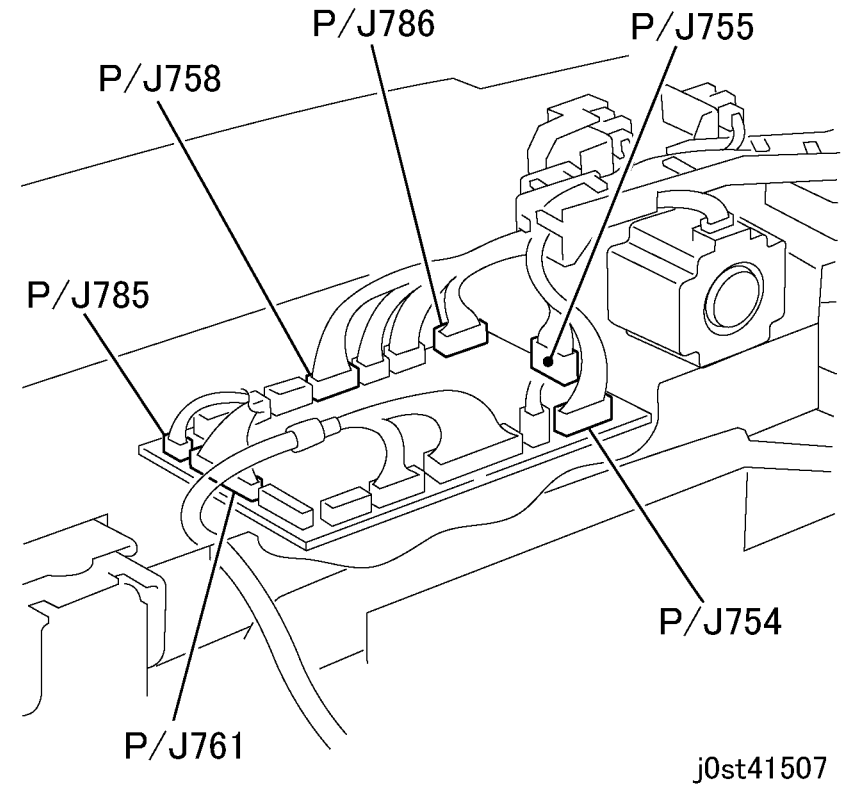
Parts List on PL 16.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the DADF. (REP 15.1.1)
2. Remove the following covers.
 - DADF Front Cover (REP 15.2.3)
 - DADF Rear Cover (REP 15.2.4)
3. Open the Top Cover Assembly.
4. Remove the DADF Document Tray. (REP 15.2.1)
5. Disconnect the DADF PWB connectors. (Figure 1)
 1. Disconnect the connectors (6).



j0st41507

Figure 1 Disconnecting the DADF PWB connectors

6. Remove the lever and Wire Harness. (Figure 2)
 1. Loosen the Set Screw and remove the disk.
 2. Release the hook and remove the lever.
 3. Remove the screw (Gold).
 4. Remove the washer.
 5. Move the DADF Interlock Switch.
 6. Disconnect the connector.
 7. Disconnect the connector.
 8. Remove the Wire Harness from the clamps (x3).

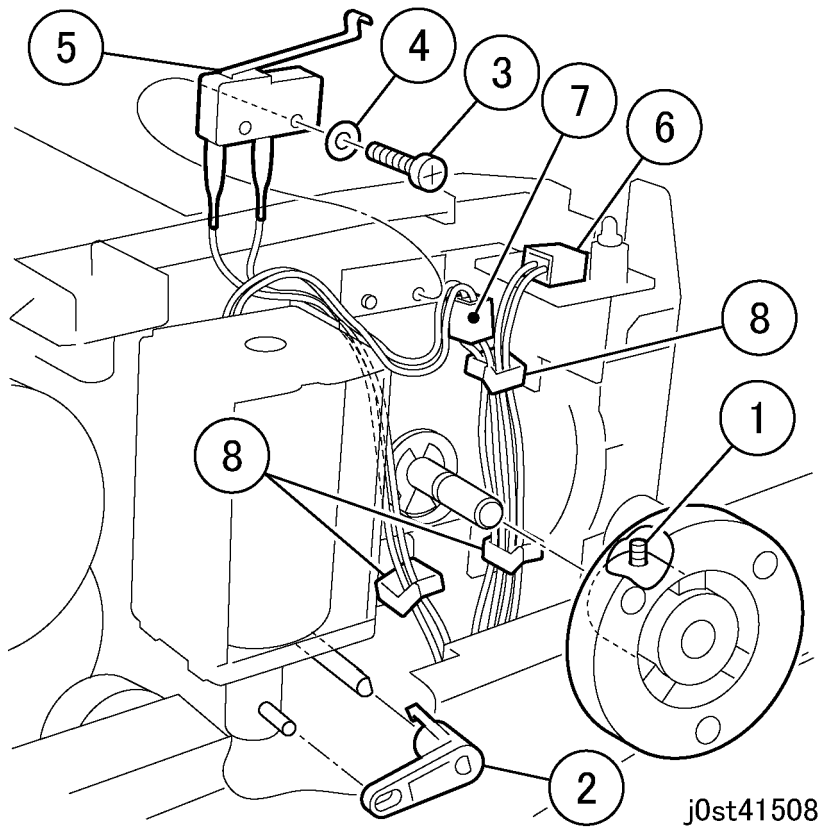


Figure 2 Removing the Lever and Wire Harness

7. Remove the DADF Feeder Assembly. (Figure 3)
 1. Remove the screws (1).
 2. Remove the Tapping Screws (6).
 3. Release the wire harness from clamp.
 4. Remove the DADF Feeder Assembly.
 5. Remove the plunger.
 6. When installing: Align the boss with the boss hole.

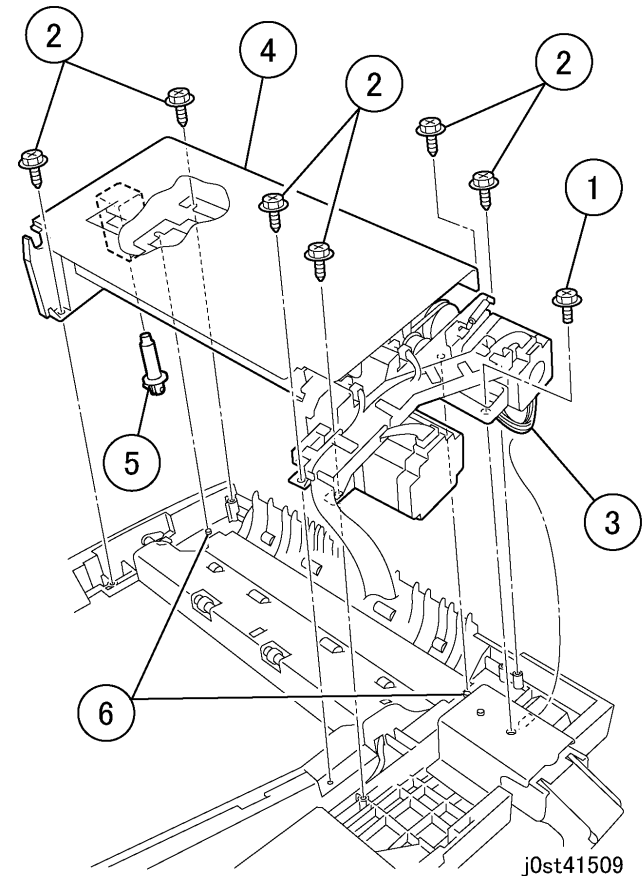


Figure 3 Removing the DADF Feeder Assembly

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the [HFSI] counter.

REP 15.2.3 DADF Front Cover

Parts List on PL 16.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Open the Top Cover Assembly.
2. Remove the DADF Front Cover. (Figure 1)
 1. Remove the Tapping Screw (1).
 2. Remove the tabs (x2) from the Tab Slot and remove the DADF Front Cover.

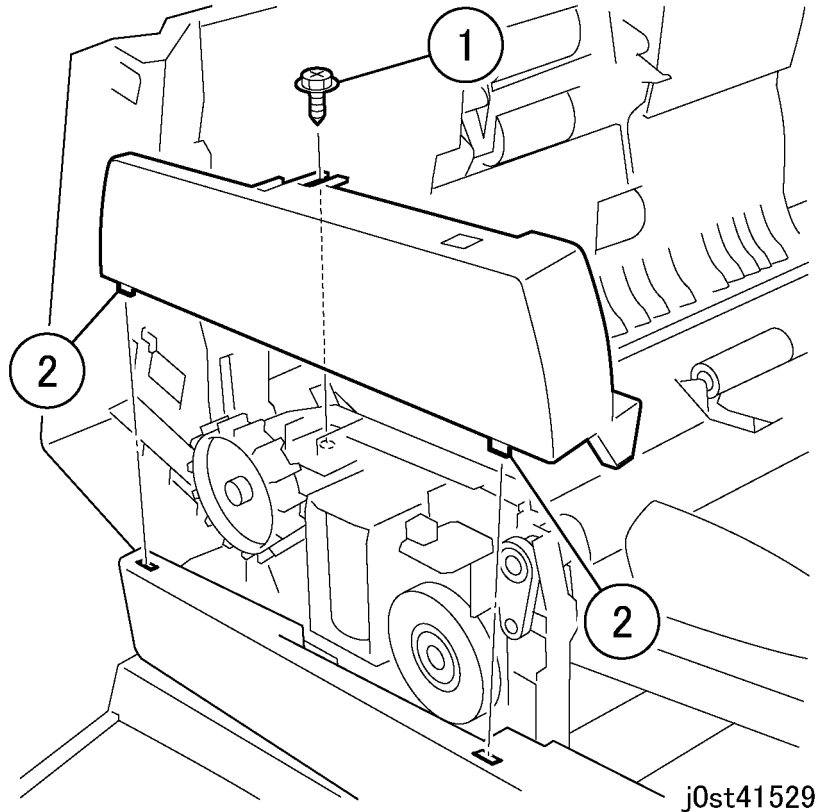


Figure 1 Removing the DADF Front Cover

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.4 DADF Rear Cover

Parts List on PL 16.2

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Open the Top Cover.
2. Open the DADF Document Tray.
3. Remove the DADF Rear Cover. (Figure 1)
 1. Remove the Tapping Screw (1).
 2. Remove the screw (2).
 3. Release the hooks (x2).
 4. Remove the harness from the notch of the DADF Rear Cover.
 5. Remove the tabs (x4) from the Tab Slot and remove the Data Rear Cover.

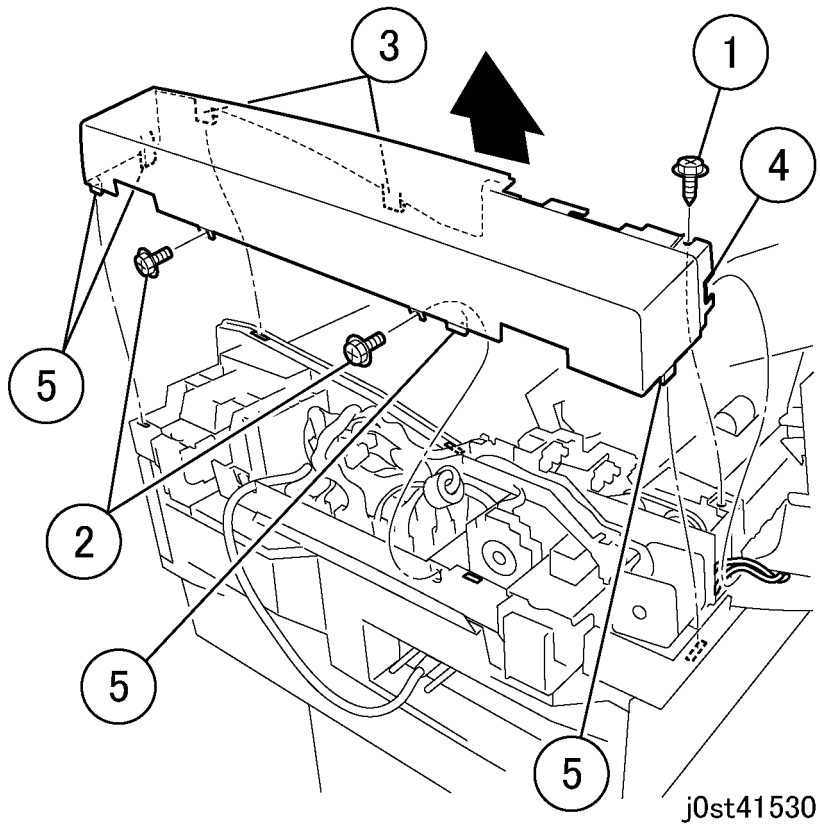


Figure 1 Removing the DADF Rear Cover

j0st41530

Replacement

1. Pull the harness to the notch of the DADF Rear Cover when installing the DADF Rear Cover. (Figure 2)
1. Pull the harness to the notch of DADF Rear Cover.

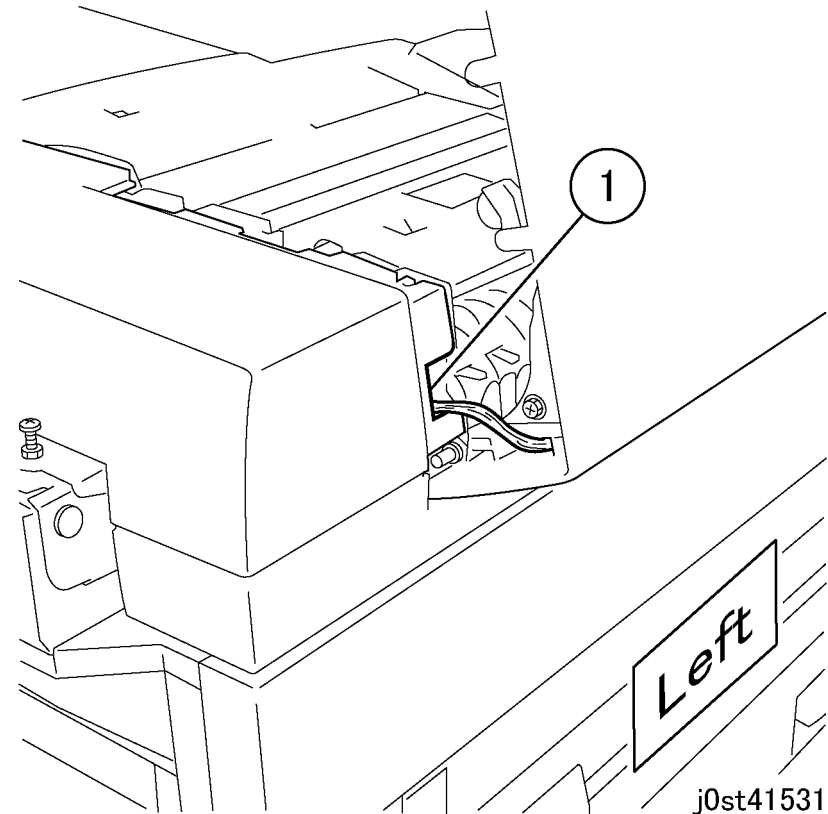


Figure 2 Installing the DADF Rear Cover

j0st41531

REP 15.3.1 DADF PWB

Parts List on PL 16.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the DADF Rear Cover. (REP 15.2.4)
2. Disconnect the DADF PWB connectors. (Figure 1)
 1. Disconnect the connectors (13).

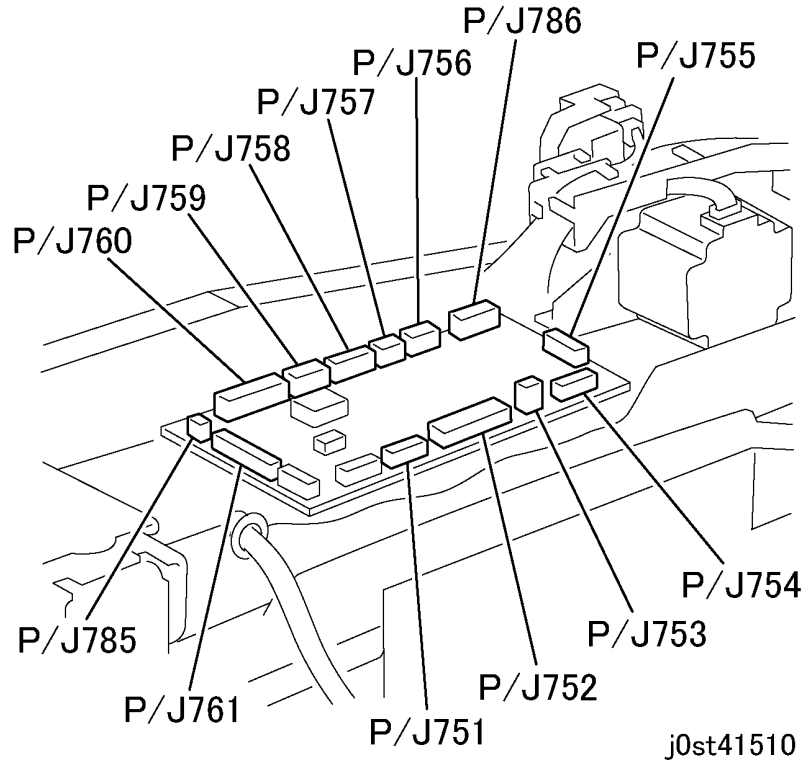


Figure 1 Disconnecting the DADF PWB connectors

3. Remove the DADF PWB. (Figure 2)
 1. Remove the screws (1).
 2. Remove the Tapping Screws (4).
 3. Remove the Earth Wires (x2).
 4. Remove the DADF PWB.

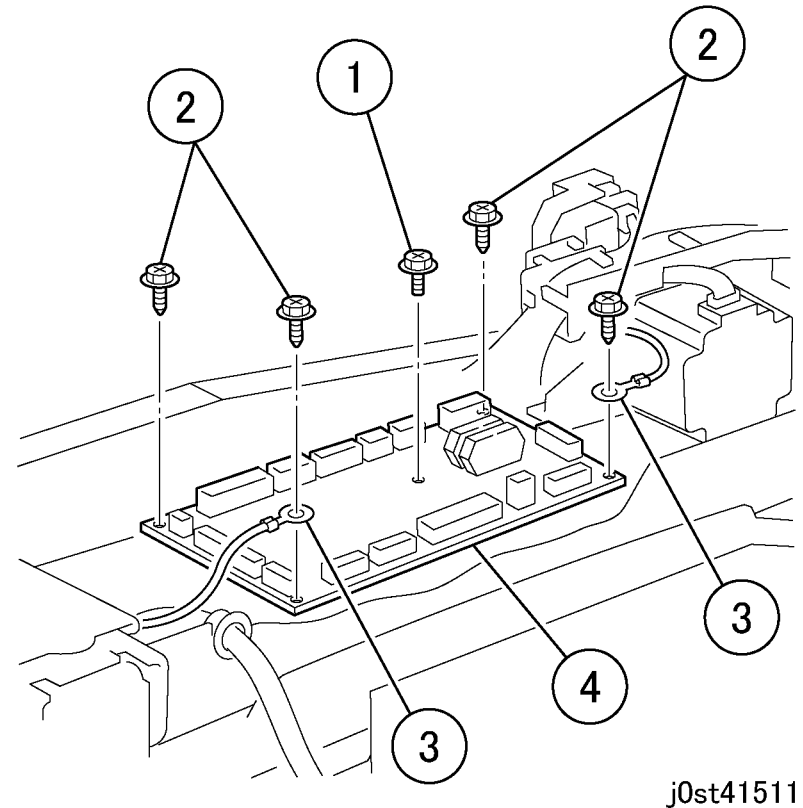


Figure 2 Removing the DADF PWB

Replacement

1. To install, carry out the removal steps in reverse order.
2. Check the S/W version and upgrade if necessary.

REP 15.3.2 Left Counter Balance

Parts List on PL 16.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

NOTE: Left/Right Counter Balance is identified by Compression Spring pressure.

Left Counter Balance: Compression Spring pressure strong

Right Counter Balance: Compression Spring pressure weak

1. Remove the DADF. (REP 15.1.1)
2. Remove the following covers.
 - DADF Front Cover (REP 15.2.3)
 - DADF Rear Cover (REP 15.2.4)
3. Open the Top Cover Assembly.
4. Remove the DADF Document Tray. (REP 15.2.1)
5. Remove the DADF Feeder Assembly. (REP 15.2.2)
6. Remove the Left Counter Balance. (Figure 1)
 1. Remove the Tapping Screws (4).
 2. Remove the Left Counter Balance.

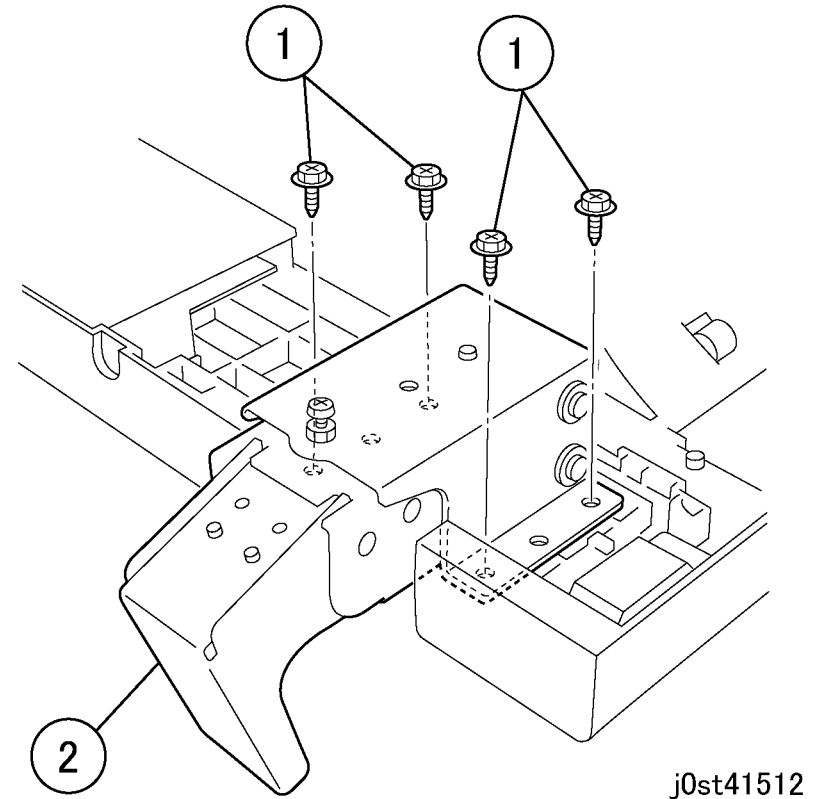


Figure 1 Removing the Left Counter Balance

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.3.3 Right Counter Balance

Parts List on PL 16.3

Removal

WARNING

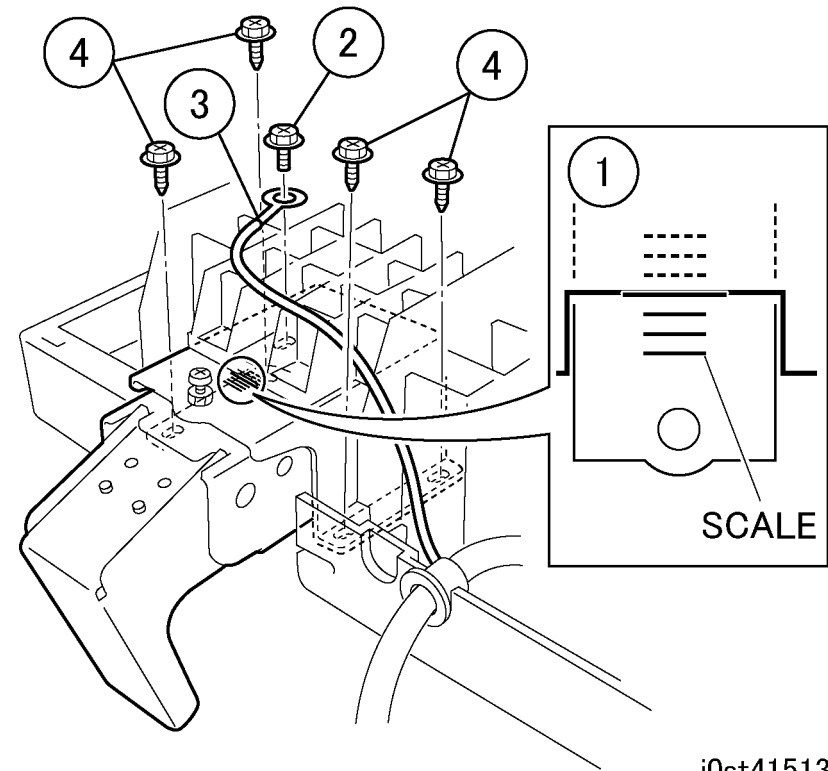
To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

NOTE: Left/Right Counter Balance is identified by Compression Spring pressure.

Left Counter Balance: Compression Spring pressure strong

Right Counter Balance: Compression Spring pressure weak

1. Remove the DADF. (REP 15.1.1)
2. Remove the DADF Rear Cover. (PL 15.2).
3. Remove the screw that secures the Right Counter Balance. (Figure 1)
 1. Check the calibration.
 2. Remove the screws (1).
 3. Remove the Earth Wire.
 4. Remove the Tapping Screws (4).



j0st41513

Figure 1 Unfastening the Right Counter Balance

4. Remove the Right Counter Balance. (Figure 2)
 1. To remove, slide the Right Counter Balance in the direction of the arrow.
 2. Precautions during installation:
 - A.Slot
 - B.Boss
 - C.Cutout

REP 15.4.1 Retard Roll

Parts List on PL 16.4

Removal

NOTE: The Feed, Retard and Nudger Roll must be replaced at the same time.

1. Open the Top Cover Assembly.
2. Remove the Retard Roll chute. (Figure 1)

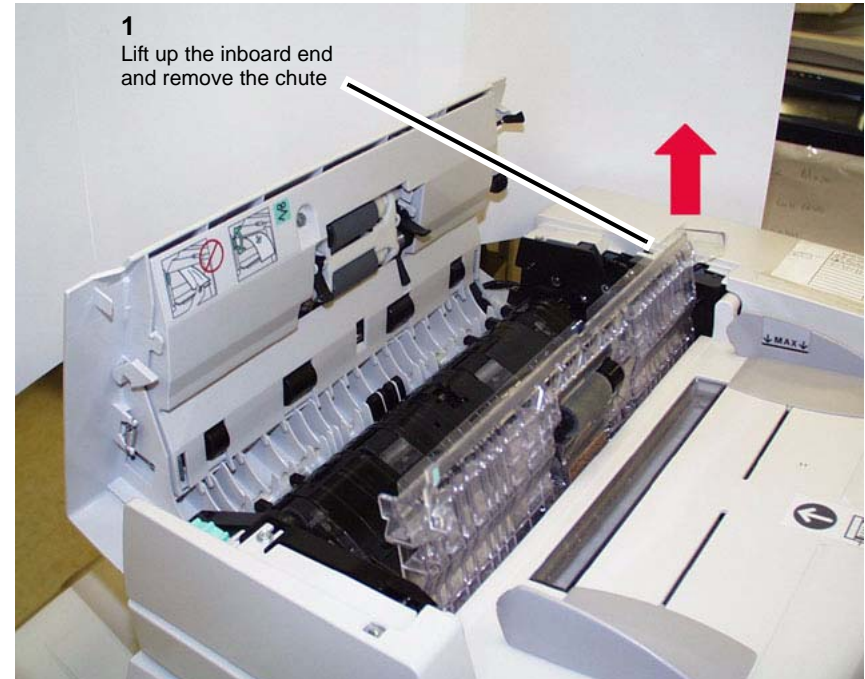


Figure 1 Removing the Retard Roll chute.

3. Remove the Retard Roll Bracket and spring. (Figure 2)

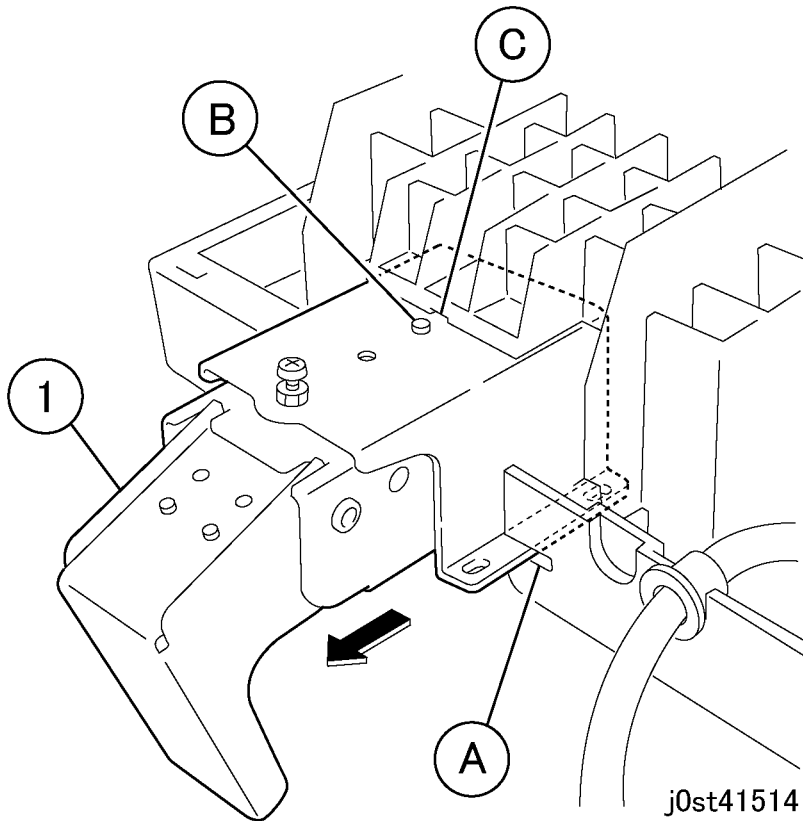


Figure 2 Removing the Right Counter Balance

Replacement

1. Check DADF (ADJ 15.1.6).

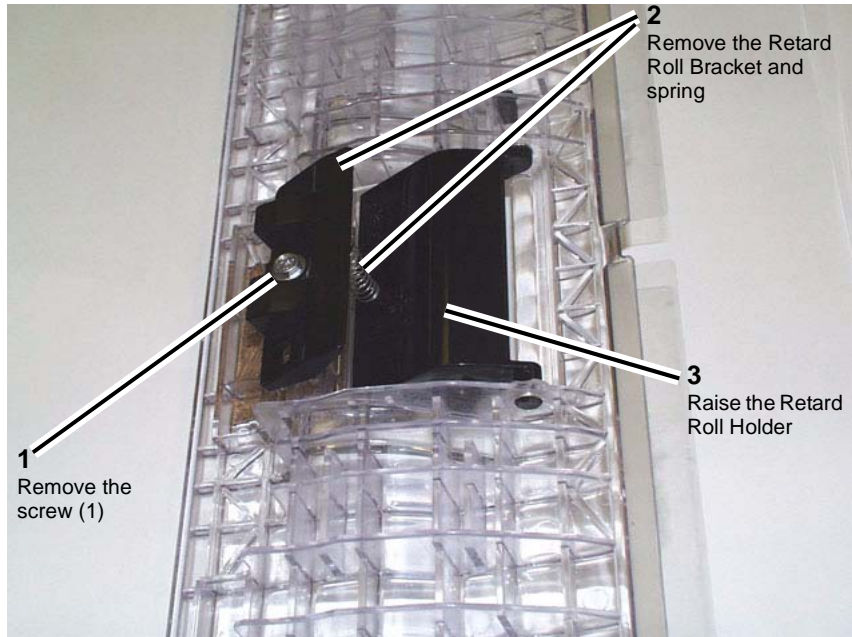


Figure 2 Removing the Retard Roll Bracket and spring

4. Remove the Retard Roll. (Figure 3)
 1. Remove the shaft.
 2. Remove the Retard Roll.
 3. Remove the Torque Limiter.

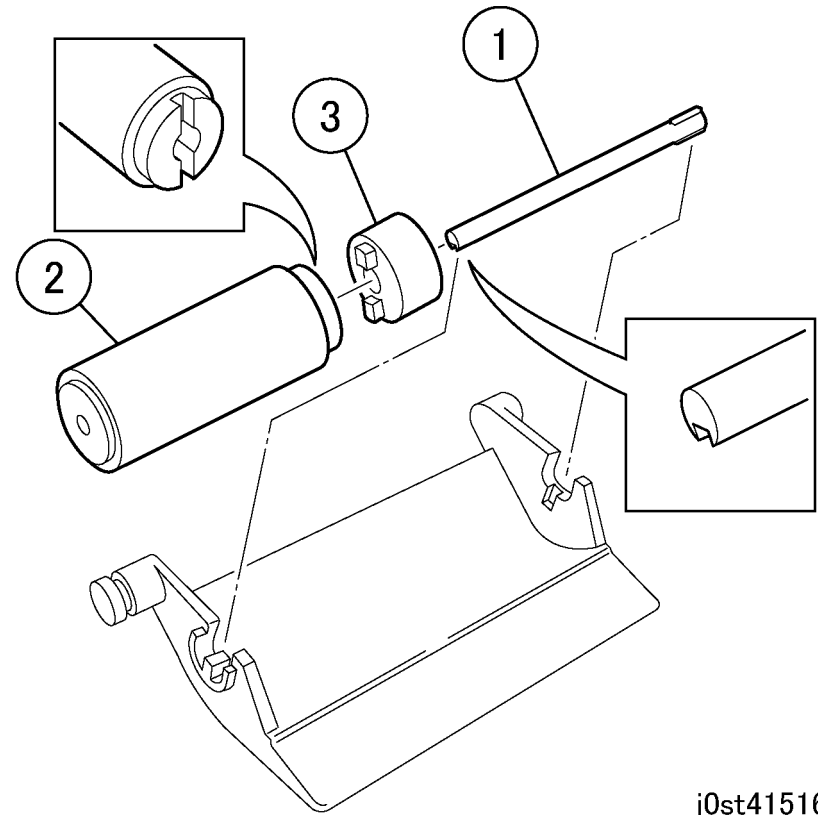


Figure 3 Removing the Retard Roll

j0st41516

Replacement

Check the software version and upgrade the software level as needed.

REP 15.4.2 Top Cover Assembly

Parts List on PL 16.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Open the Top Cover Assembly.
2. Remove the following covers:
 - DADF Front Cover (REP 15.2.3)
 - DADF Rear Cover (REP 15.2.4)
3. Remove the Feed Upper Chute. (Figure 1)
 1. Remove the screw (1).
 2. Remove the Feed Upper Chute.
 3. Take note of the following at installation:
 - A. Insert the Boss into the U-groove.
 - B. Insert the Tab into the Tab Slot.

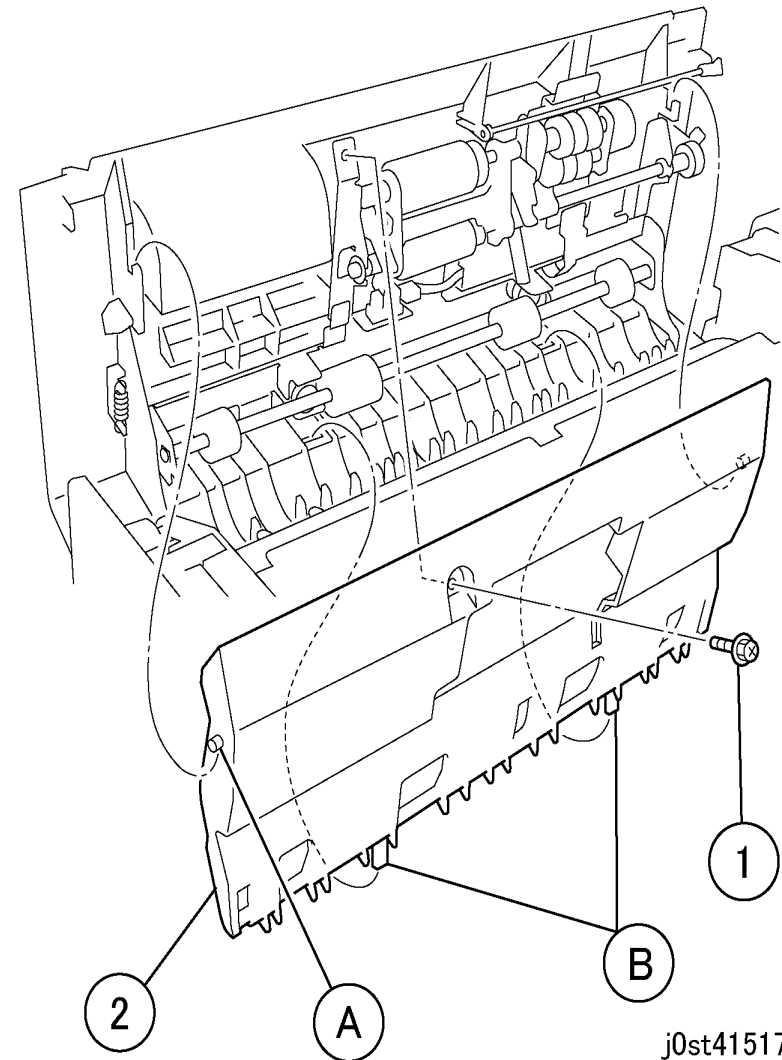


Figure 1 Removing the Feed Upper Chute

4. Remove the Harness Guide. (Figure 2)
 1. Loosen the screw.
 2. Remove the Earth Wire.
 3. Remove the Tapping Screw (1).
 4. Unfasten the Harness Guide.

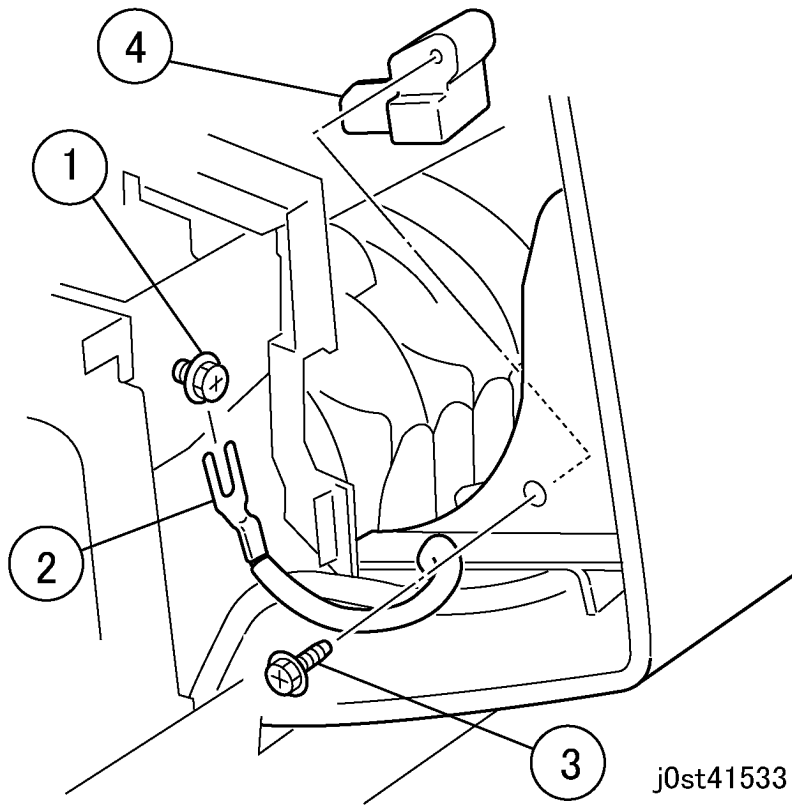


Figure 2 Removing the Harness Guide

5. Remove the Plate Spring. (Figure 3)
 1. Remove the Tapping Screw (2).
 2. Remove the Plate Spring.

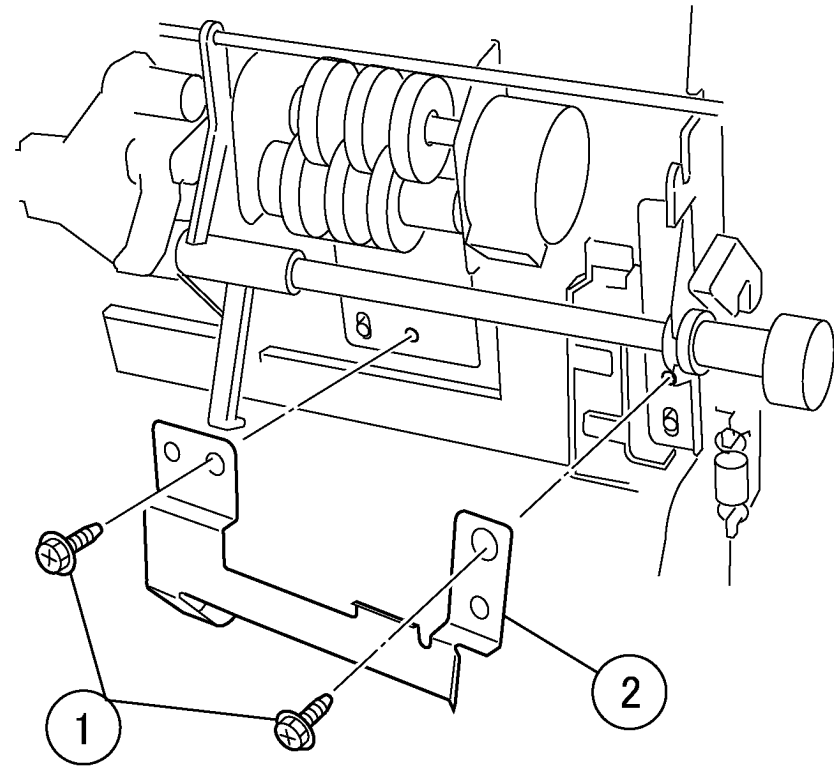


Figure 3 Removing the Plate Spring

6. Remove the Top Cover with the Wire Harness connected. (Figure 4)
 1. Remove the E-clip.
 2. Remove the screw (1).
 3. Remove the Stud Bracket.
 4. Remove the stud.
 5. Remove the Top Cover Assembly.

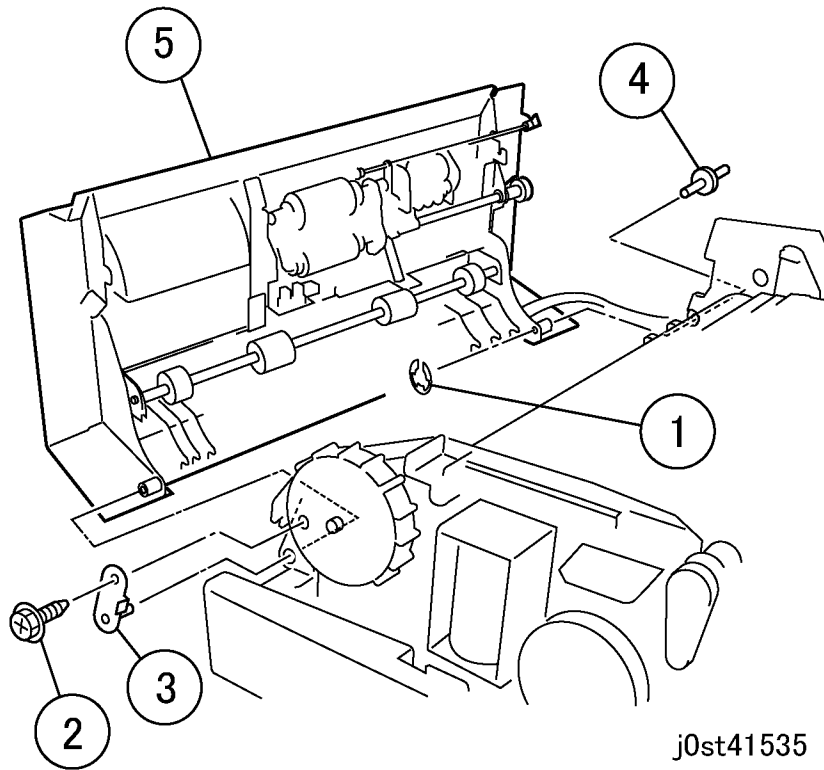


Figure 4 Removing the Top Cover Assembly

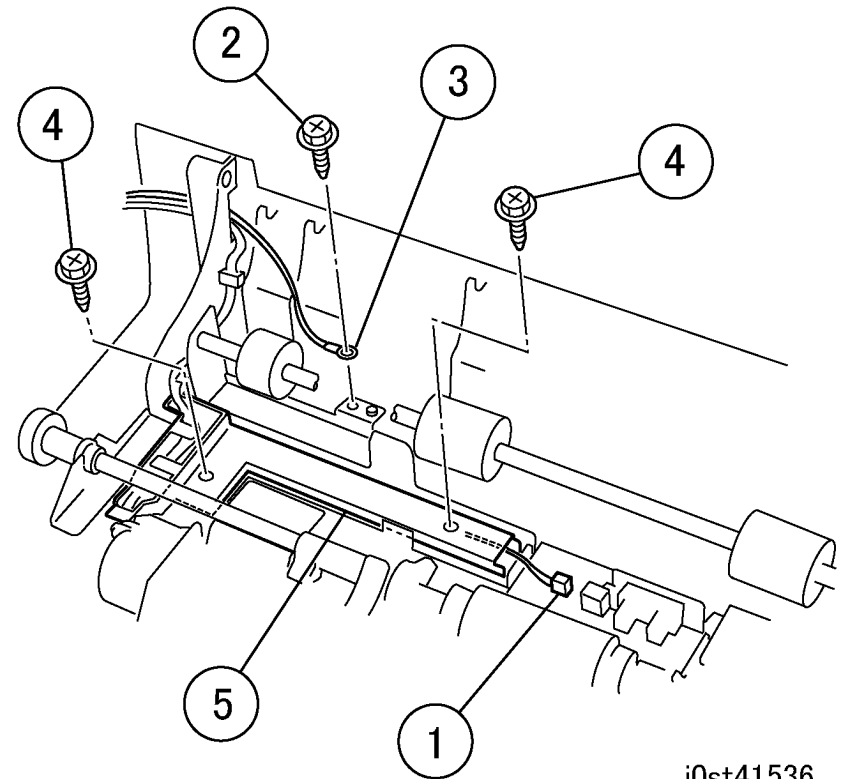


Figure 5 Unfastening the Wire Harness

7. Unfasten the Wire Harness. (Figure 5)

1. Disconnect the connector.
2. Remove the Topping Screw (1).
3. Remove the Earth Wire.
4. Remove the Tapping Screw (2).
5. Unfasten the Harness Guide.

8. Remove the Wire Harness from the Top Cover. (Figure 6)

1. Disconnect the connector.
2. Remove the Wire Harness from the Harness Guide.
3. Remove the Wire Harnesses (3) from the square hole and remove the Top Cover.

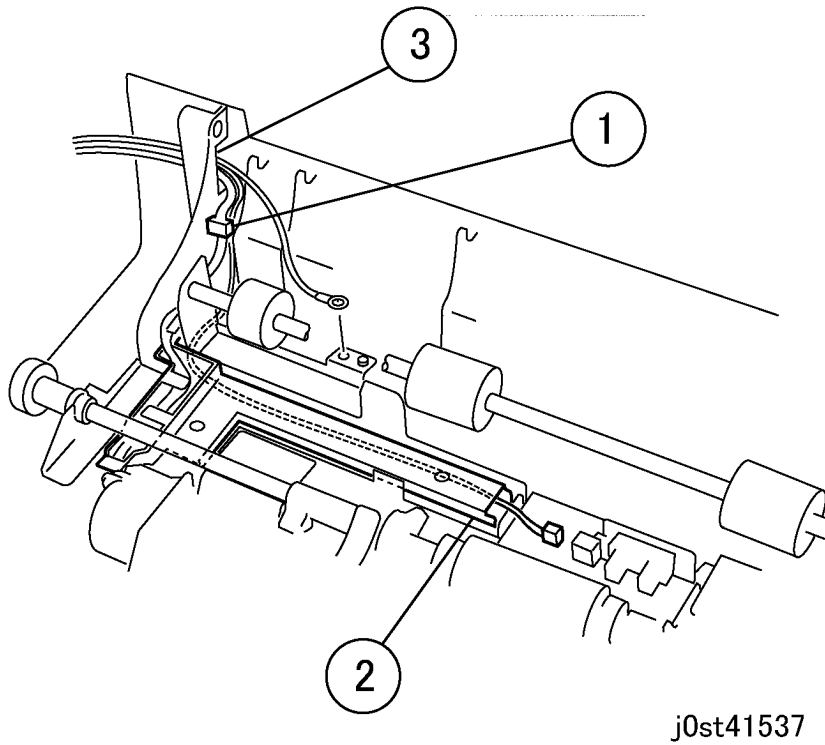


Figure 6 Removing the Wire Harness

Replacement

1. Remove the Wire Harness from the new Top Cover Assembly when installing the cover.
2. Remove the Feed Upper Chute and Plate Spring from the new Top Cover Assembly. (Figure 7)
 1. Remove the screw (1).
 2. Remove the Feed Upper Chute.
 3. Remove the Tapping Screw (2).
 4. Remove the Plate Spring.

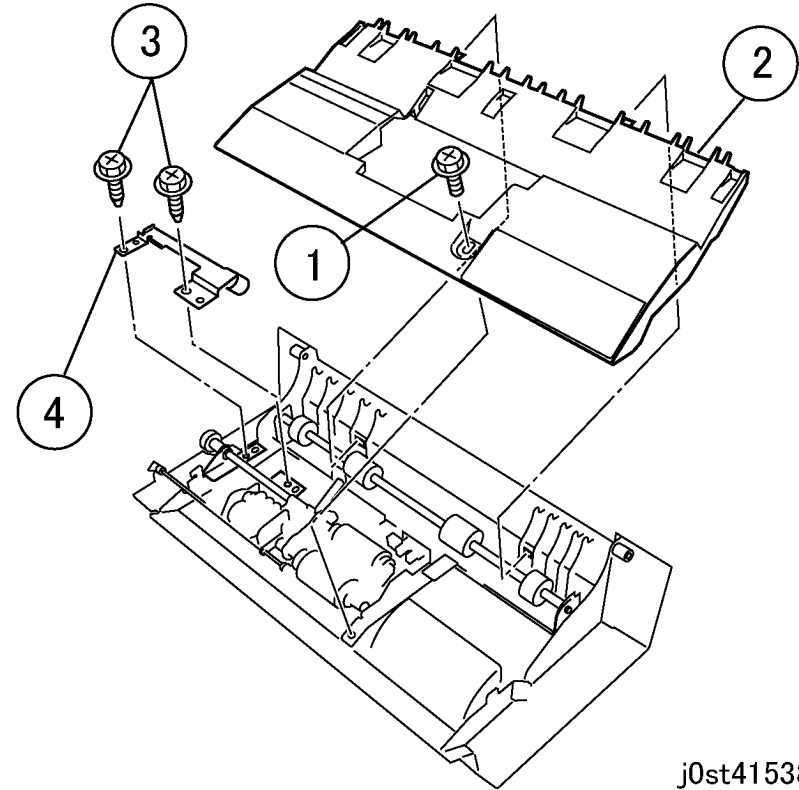
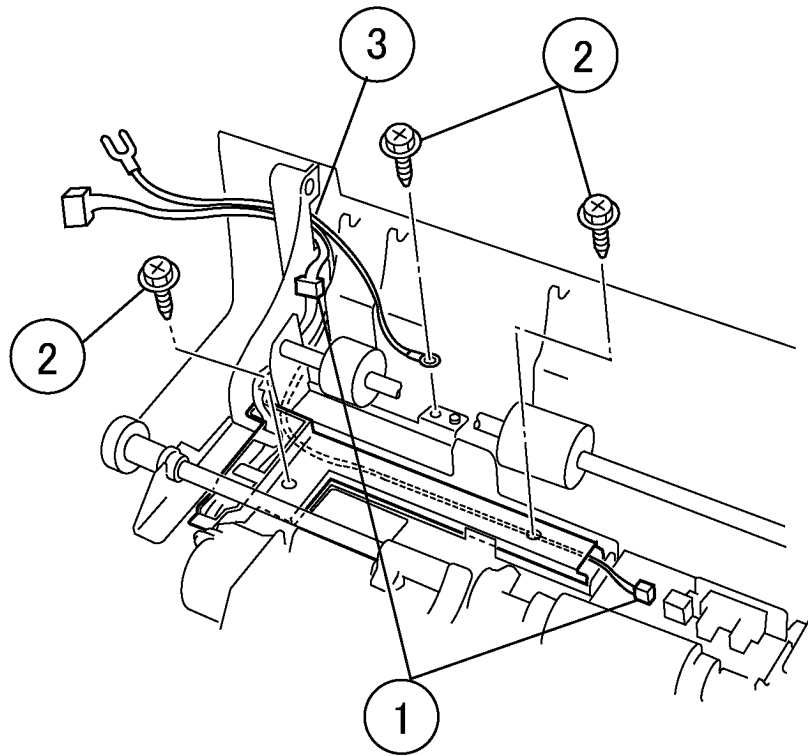


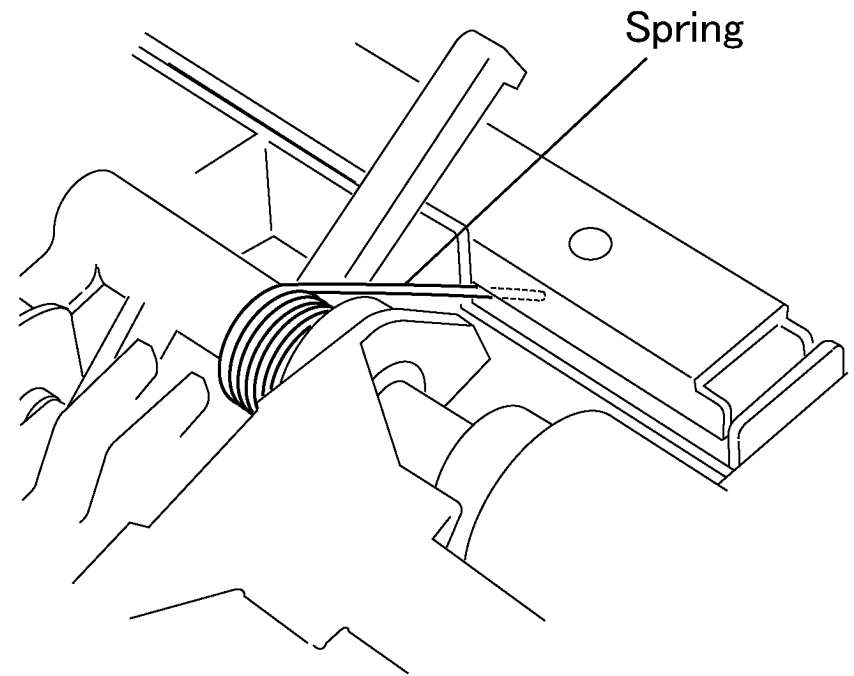
Figure 7 Removing the Feed Upper Chute and Plate Spring

3. Remove the Wire Harness from the new Top Cover. (Figure 8)
 1. Disconnect the connectors (2).
 2. Removing the Tapping Screw (3).
 3. Removing the Wire Harness (x3) from the square hole.



j0st41539

Figure 8 Removing the Wire Harness



j0st41540

Figure 9 Hooking on the spring

4. Hook on the spring when securing the Harness Guide. (Figure 9)

REP 15.6.1 Nudger Roll, Feed Roll

Parts List on PL 16.6

Removal

NOTE: The Feed, Retard and Nudger Rolls must be replaced at the same time.

1. Open the Top Cover Assembly.
2. Remove the Feed Upper Chute. (Figure 1)
 1. Remove the screw (1).
 2. Remove the Feed Upper Chute.
3. Precautions during Installation:
 - A. Insert the Boss into the U-groove.
 - B. Insert the Tab into the Tab Slot.

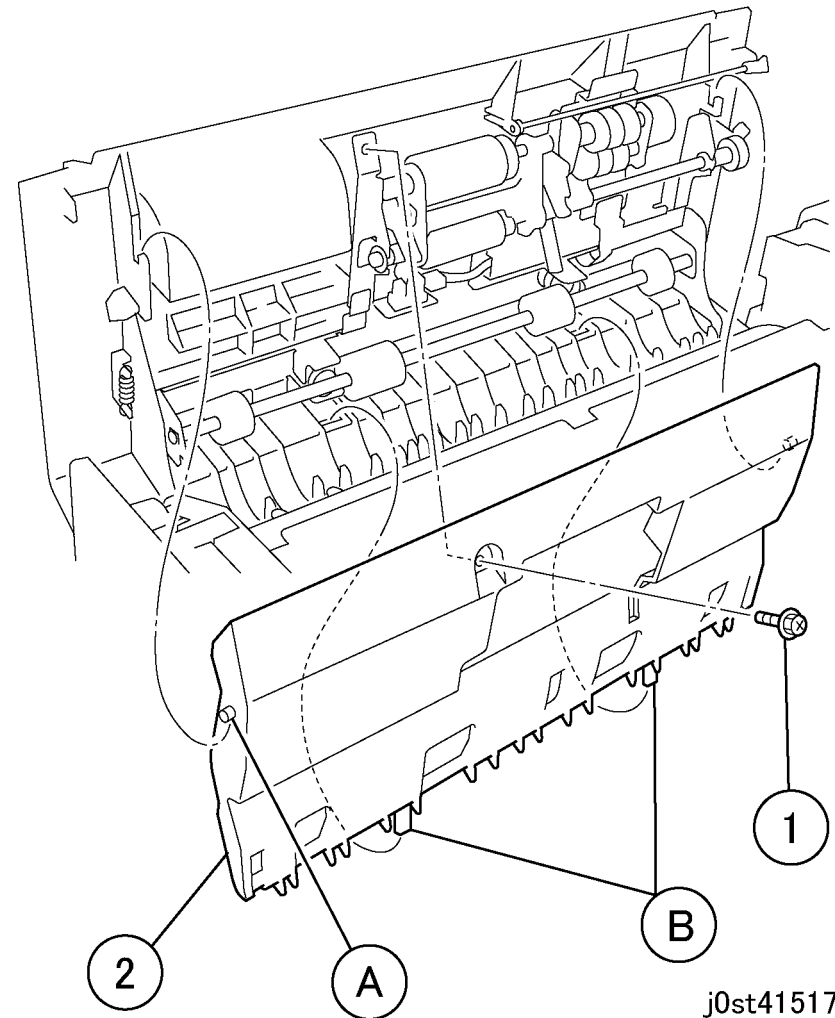


Figure 1 Removing the Feed Upper Chute

3. To remove the Nudger Roll rotate the inboard gear of the Torque Limiter until the Nudger Roll is fully extended. (Figure 2)

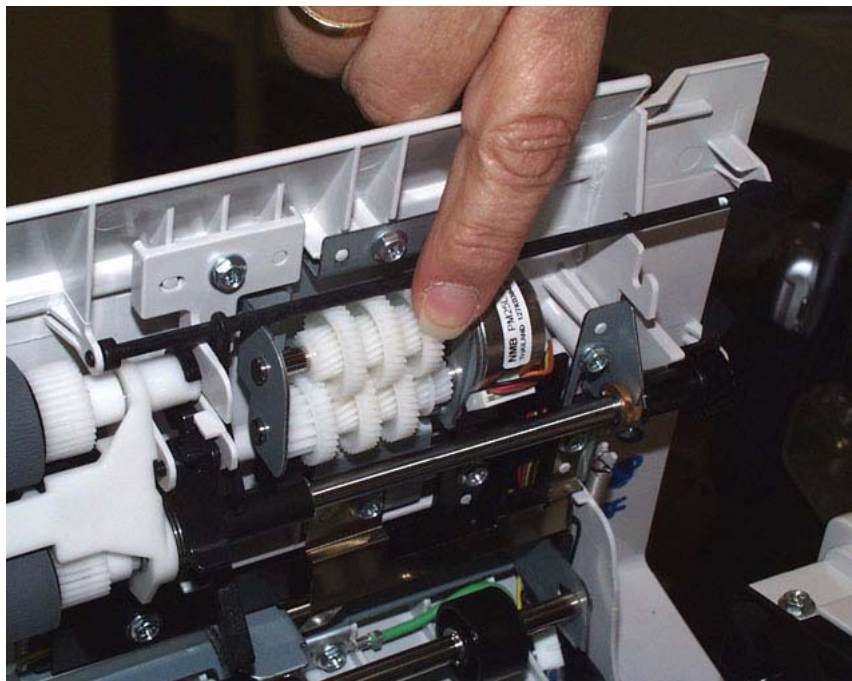


Figure 2 Rotate the gear to extend the Retard Roll

4. Lift the retaining clip from the Nudger Roll. (Figure 3)

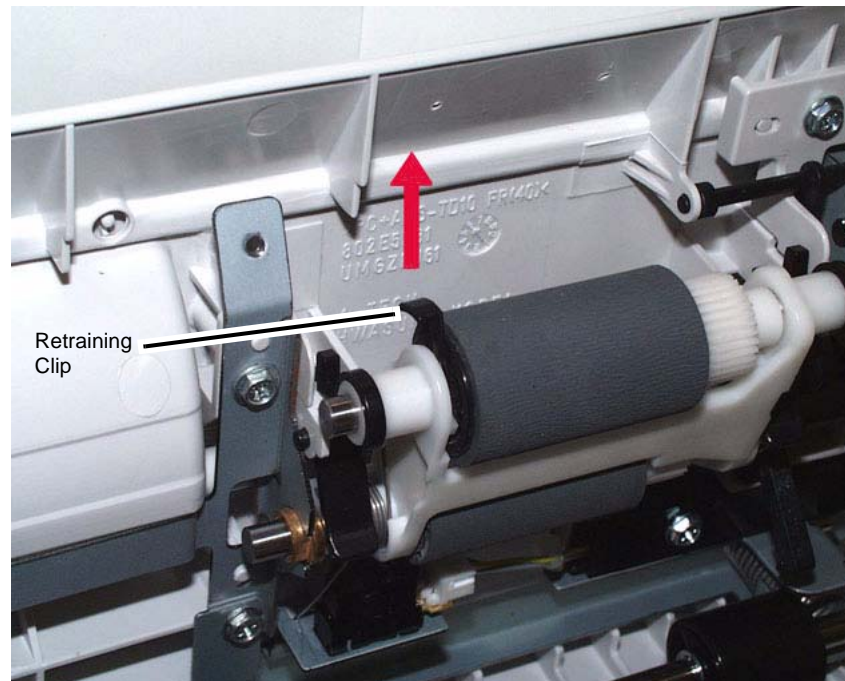


Figure 3 Removing the retaining clip from the Nudger Roll

5. Remove the Nudger Roll Shaft and remove the Nudger Roll. (Figure 4)

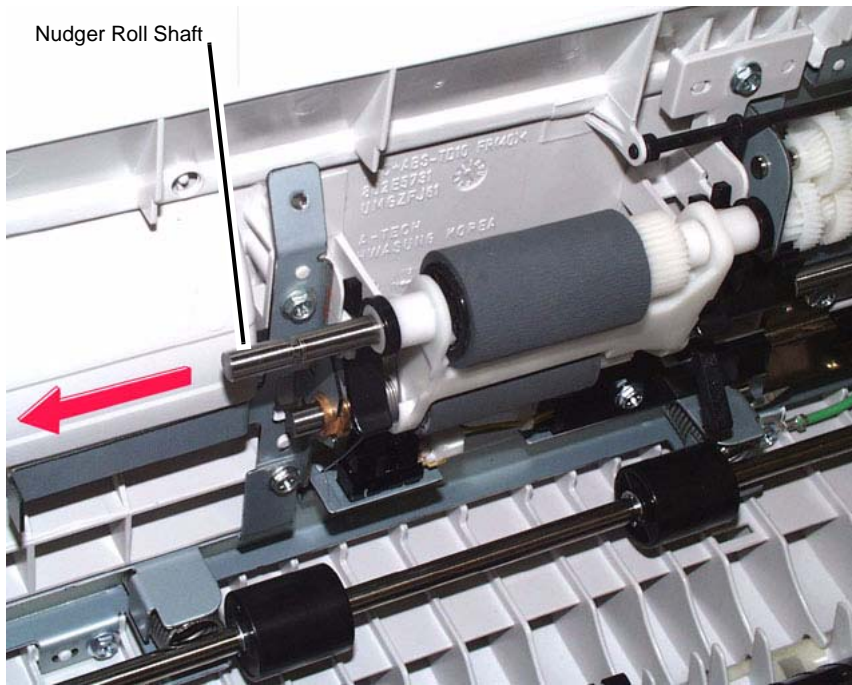


Figure 4 Removing the Nudger Roll shaft and the Nudger Roll

6. Retract the Nudger Roll by rotating the Torque Limiter inboard gear.
7. To remove the Feed Roll, remove the locking tab. (Figure 5)

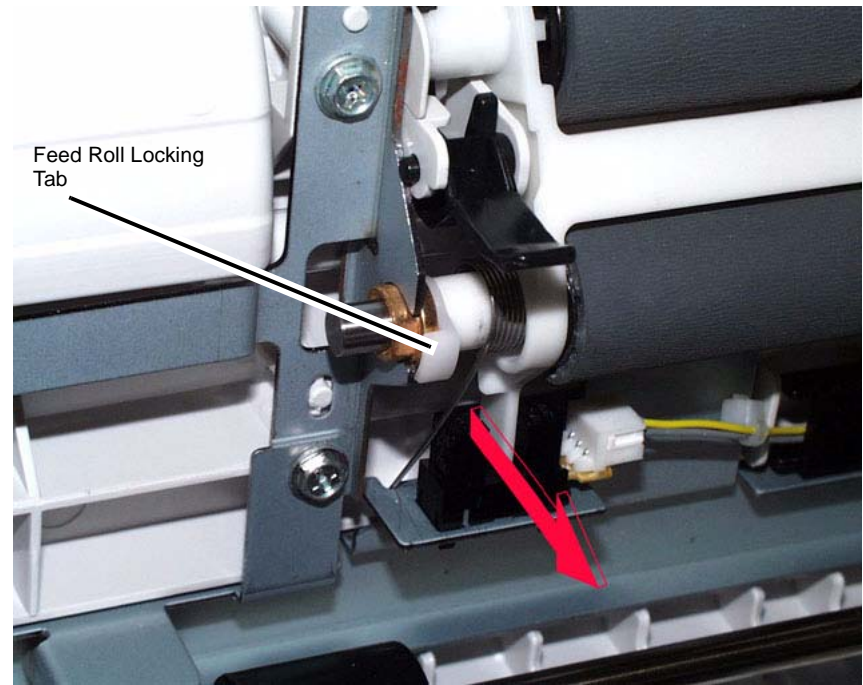


Figure 5 Removing the Feed Roll Locking Tab

8. Remove the Feed Roll Shaft and remove the Feed Roll. (Figure 6)

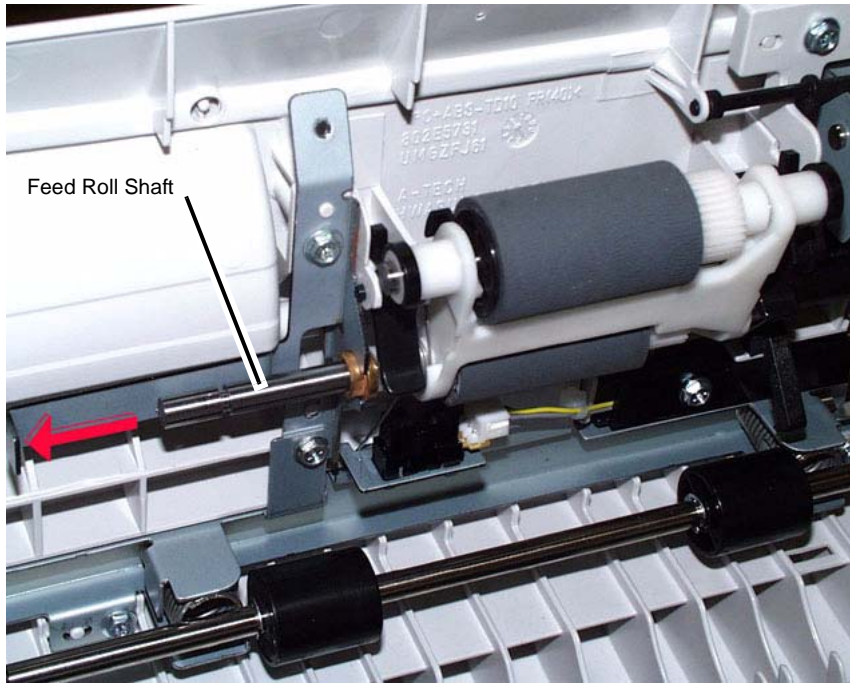


Figure 6 Removing the Feed Roll shaft and the Feed Roll

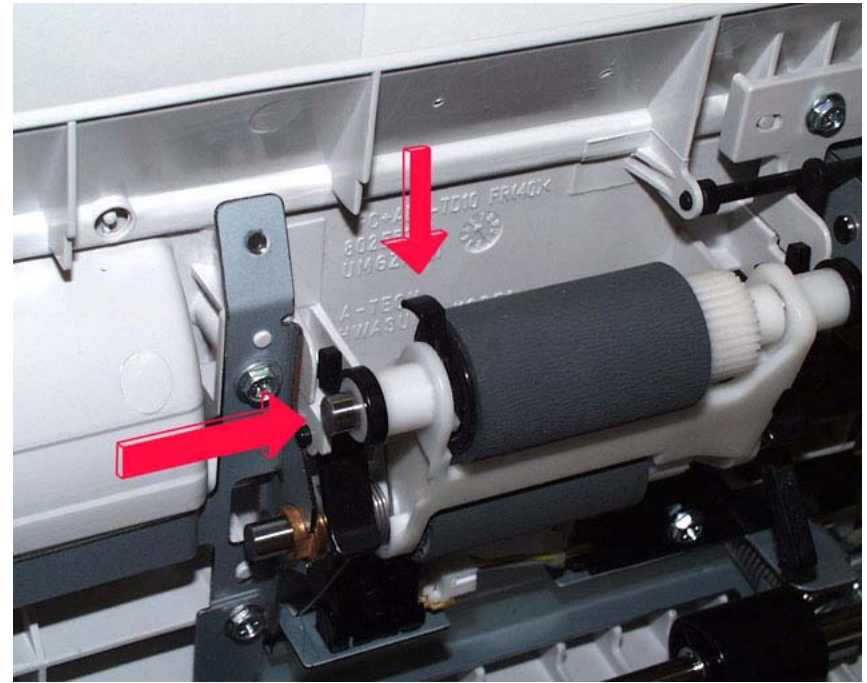


Figure 7 Installing the Nudger Roll, Nudger Roll shaft and locking clip

Replacement

1. Extend the Nudger Roll by rotating the Torque Limiter inboard gear.
2. Install the Nudger Roll and Nudger Roll shaft. The shaft is spring loaded so push in the shaft and hold it and install the locking clip. (Figure 7)
3. Retract the Nudger Roll by rotating the Torque Limiter inboard gear.
4. Install the Feed Roll and Feed Roll shaft. The shaft is spring loaded so push in the shaft and hold it and install the locking clip. (Figure 8)

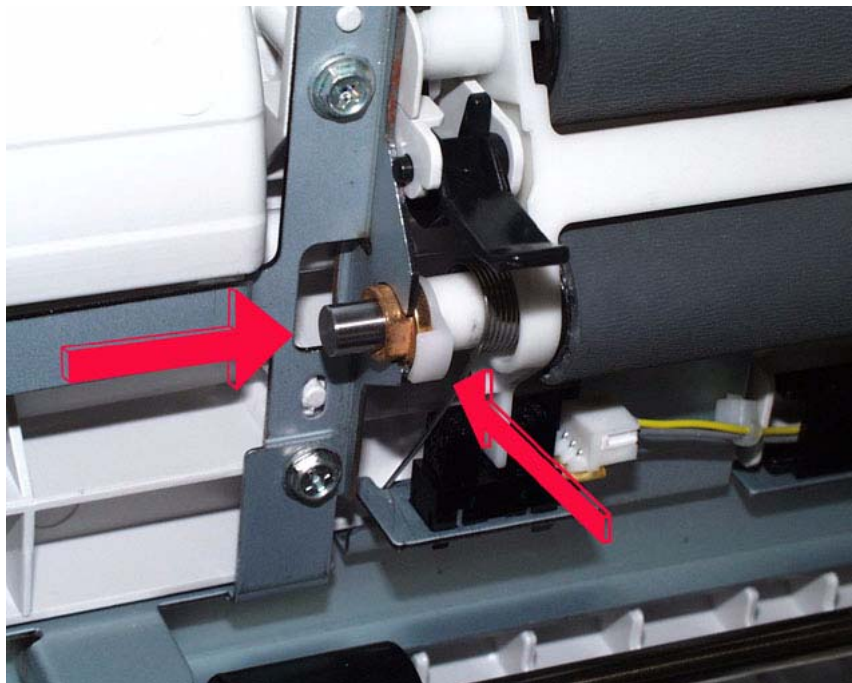


Figure 8 Installing the Feed Roll and Feed Roll shaft.

5. Observe following while installing Upper Feed Chute. (Figure 9)
 - Insert the Boss into the U-groove (A).
 - Insert the Tab into the Tab Slot (B).
 - Install the screw (1)

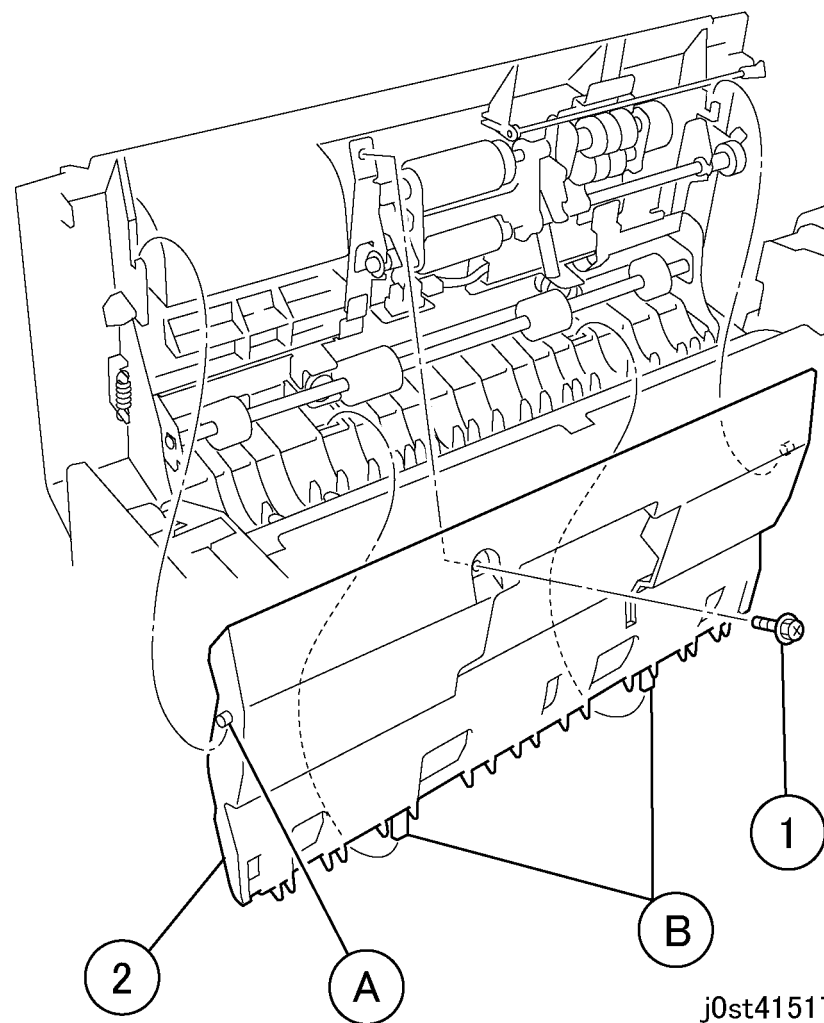


Figure 9 Installing the Feed Upper Chute

REP 15.8.1 Registration Roll

Parts List on PL 16.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

1. Remove the DADF. (REP 15.1.1)
2. Remove the following covers.
 - DADF Front Cover (REP 15.2.3)
 - DADF Rear Cover (REP 15.2.4)
3. Open the Top Cover.
4. Remove the DADF Document Tray. (REP 15.2.1)
5. Remove the DADF Feeder Assembly. (REP 15.2.2)
6. Loosen the belt tension on the DADF Registration Motor. (Figure 1)
 1. Remove the spring.
 2. Loosen the screws (2).

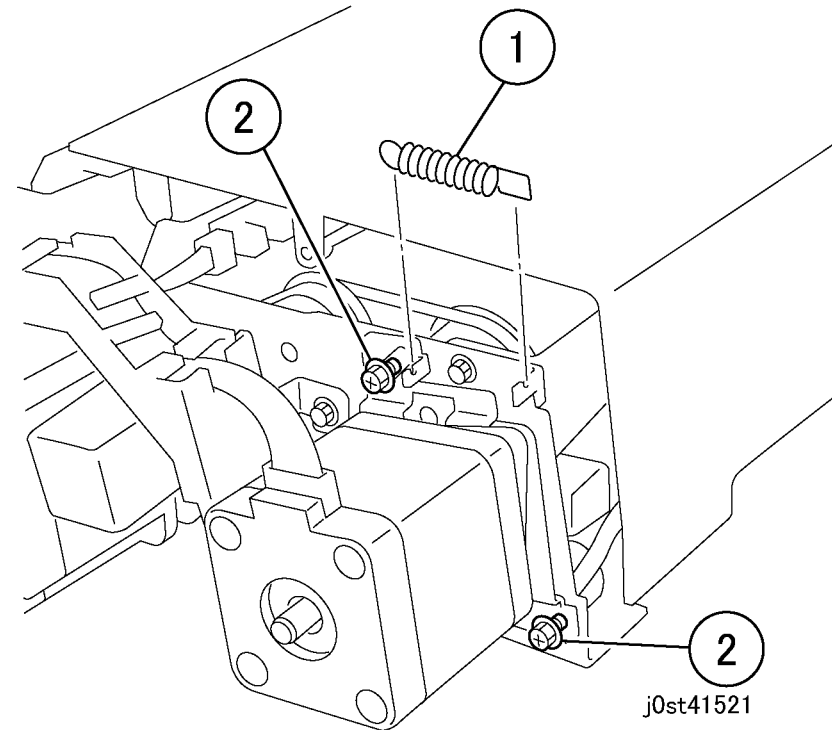


Figure 1 Loosening the belt tension

7. Move the motor unit. (Figure 2)
 1. Disconnect the connector.
 2. Remove the screws (3).
 3. Remove the guide.
 4. Remove the Stud Screw.
 5. Move the motor unit.
 6. Remove the belt.

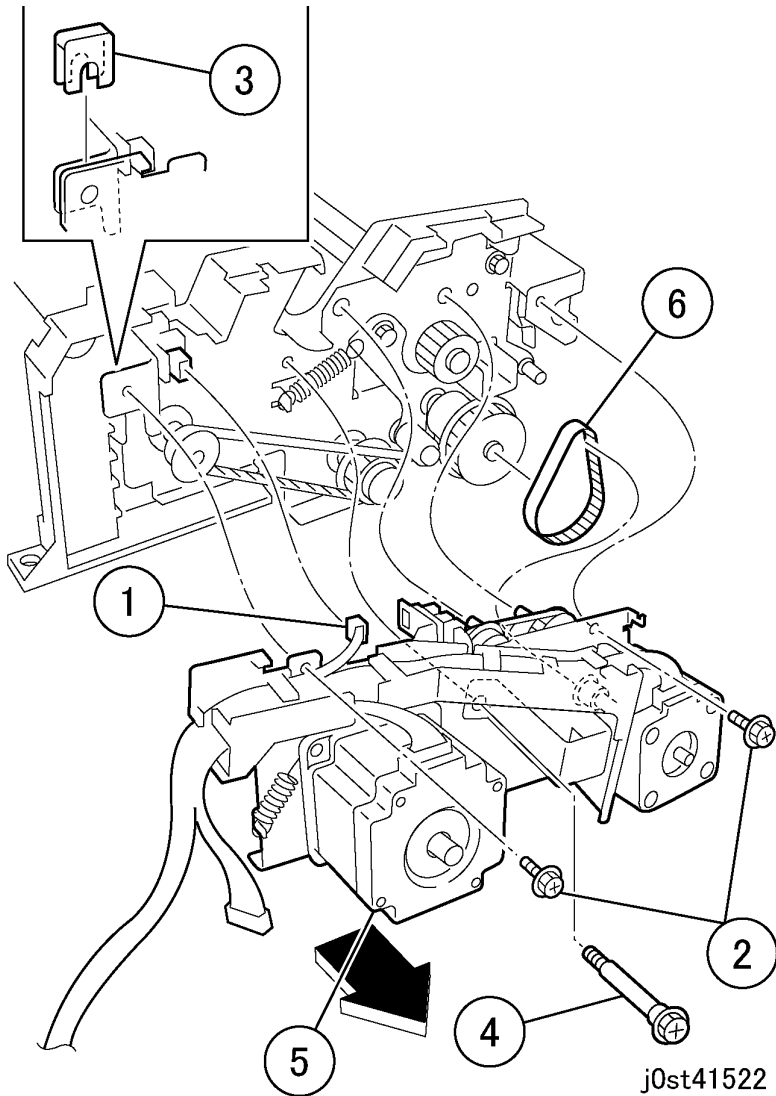


Figure 2 Moving the motor unit

8. Open the chute.
9. Remove the Feed Guide. (Figure 3)
 1. Remove the screws (2).
 2. Remove the Feed Guide.

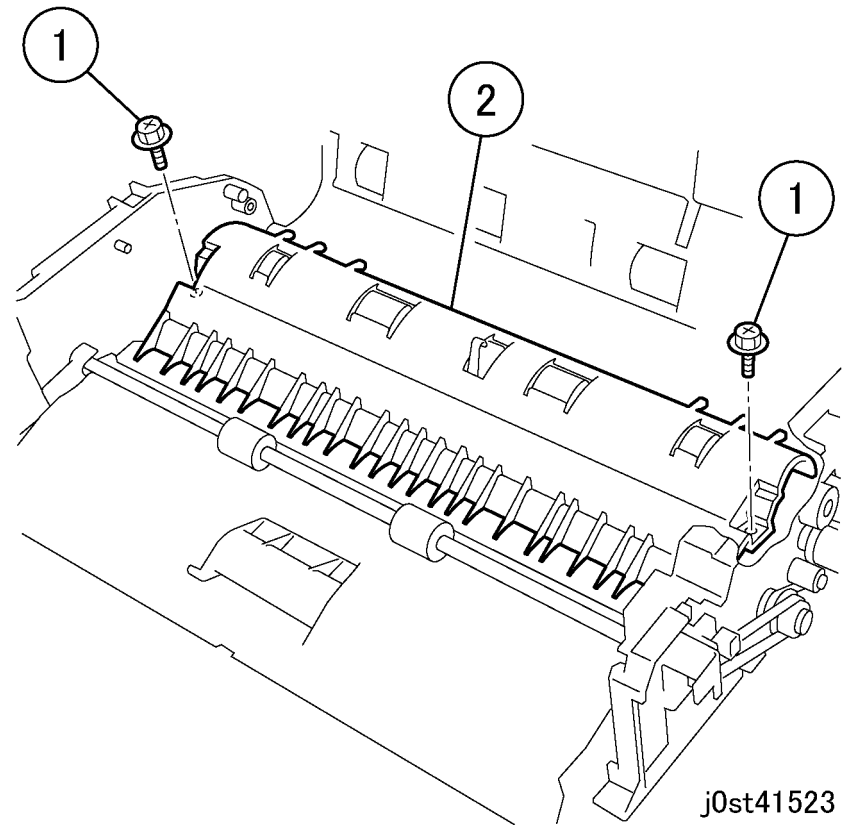


Figure 3 Removing the Feed Guide

10. Remove the sensor holder. (Figure 4)
 1. Remove the Tapping Screws (2).
 2. Remove the sensor holder.

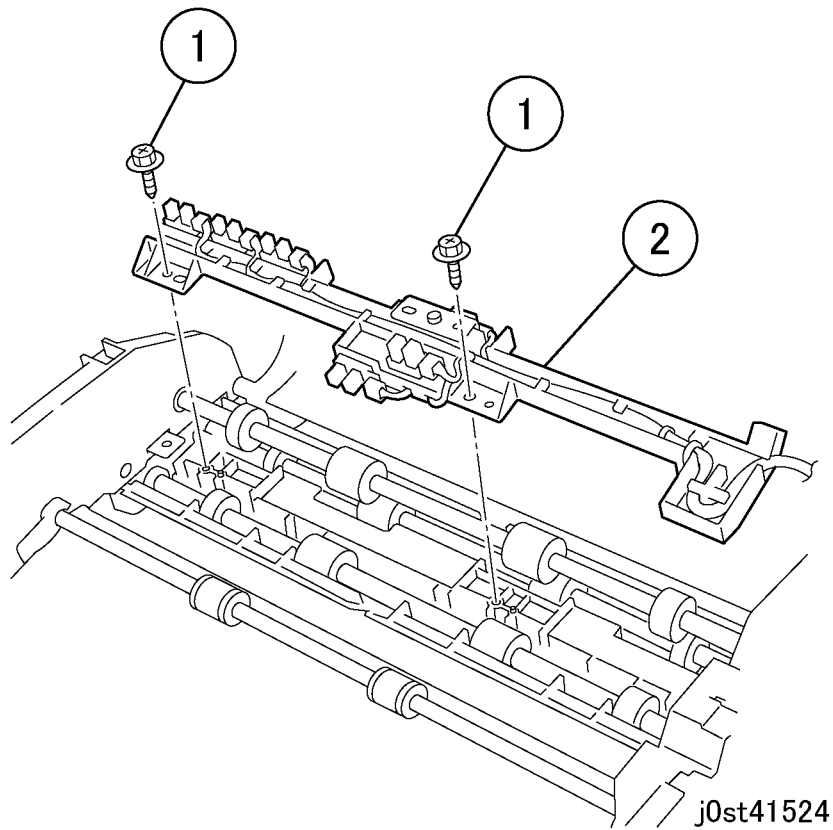


Figure 4 Removing the sensor holder

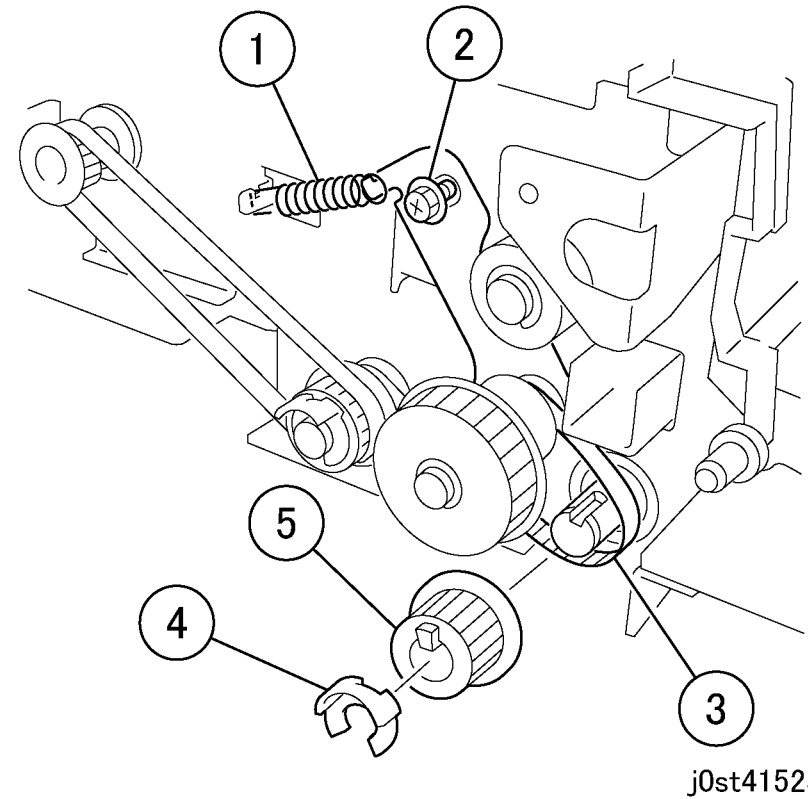


Figure 5 Loosening the belt tension

11. Loosen the belt tension. (Figure 5)

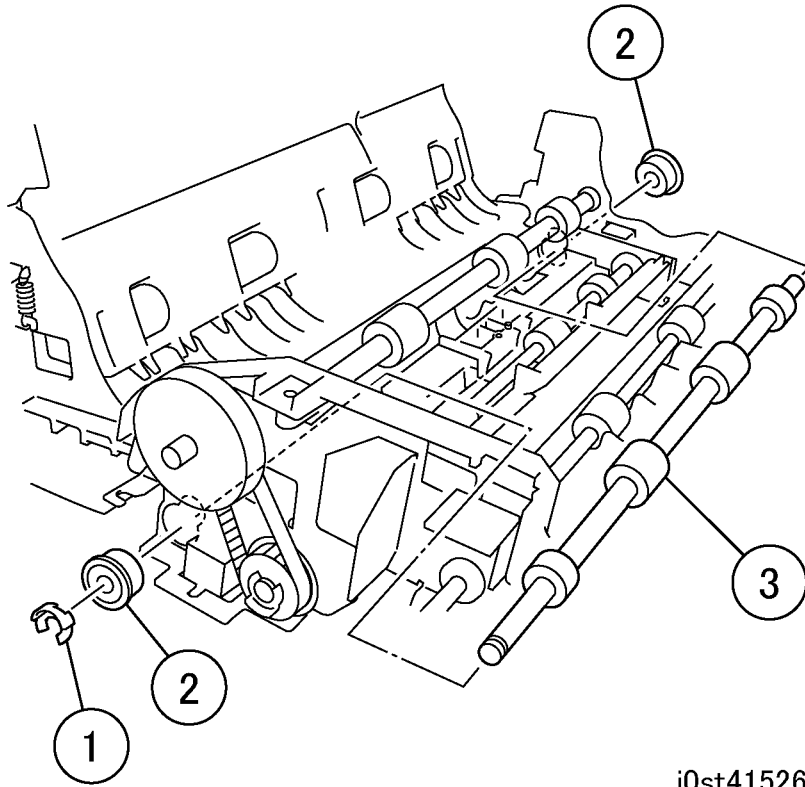
1. Remove the spring.
2. Loosen the screw.
3. Loosen the belt tension.
4. Remove the E-Clip.
5. Remove the gear.

12. Remove the Registration Roll. (Figure 6)

1. Remove the E-Clip.
2. Remove the bearings (2).
3. Remove the Registration Roll.

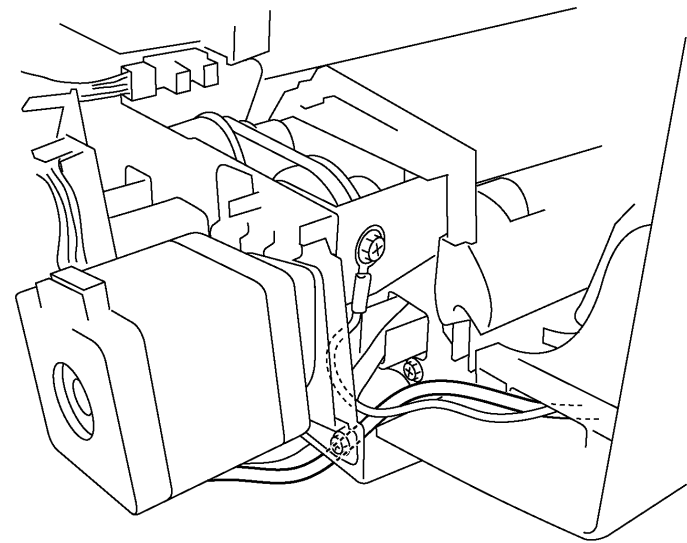
Replacement

1. When installing the motor unit, pull the Wire Harness as shown in Fig. 7. (Figure 7)



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Figure 6 Removing the Registration Roll



j0st41527

Figure 7 Pulling the Wire Harness

REP 16.1.1 H-Transport Assembly

Parts List on PL 17.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the following parts:
 - Finisher Assembly (REP 16.1.2)
2. Move the H-Transport Assembly. (Figure 1)
 1. Remove the screws (x2).
 2. Remove the H-Transport Assembly.

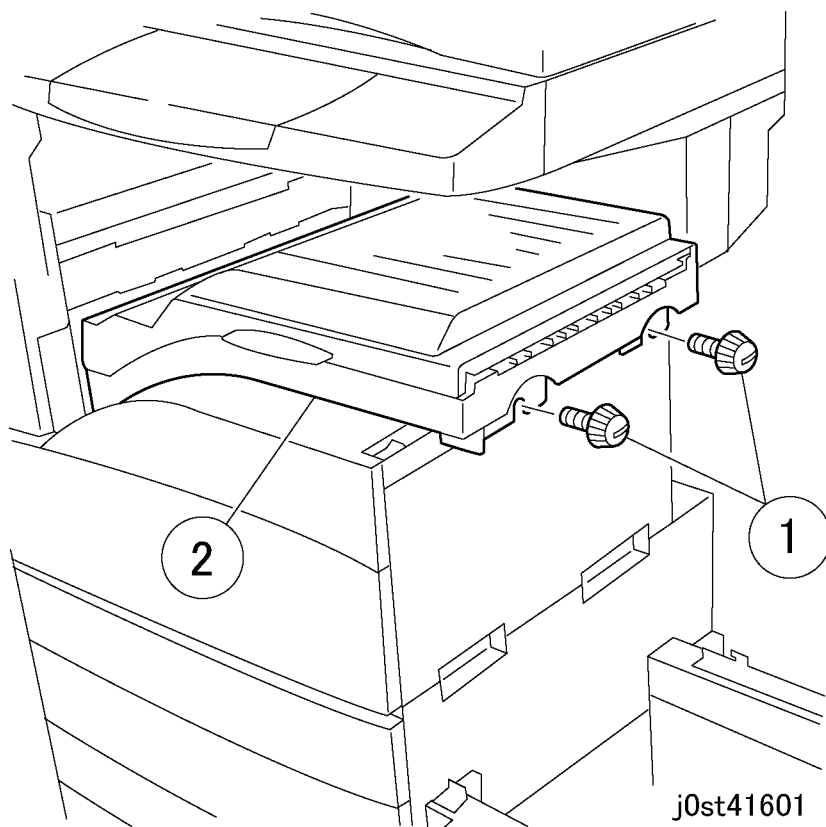


Figure 1 Removing the H-Transport Assembly

j0st41601

REP 16.1.2 Finisher Assembly

Parts List on PL 17.1

Removal

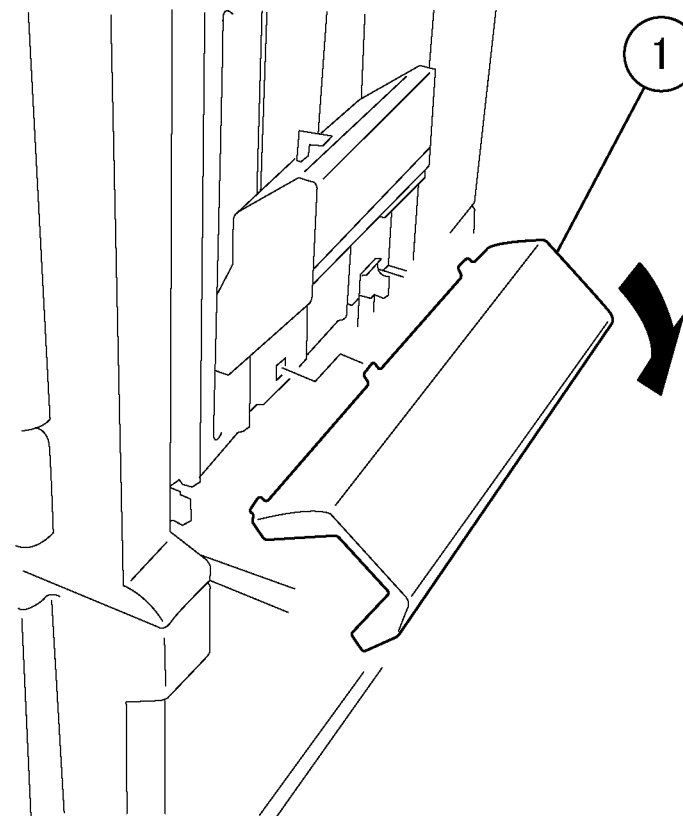
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Right Cover. (Figure 1)
 1. Remove the Right Cover.



j0st41654

Figure 1 Removing the Right Cover

2. Remove the cover. (Figure 2)
 1. Remove the cover.

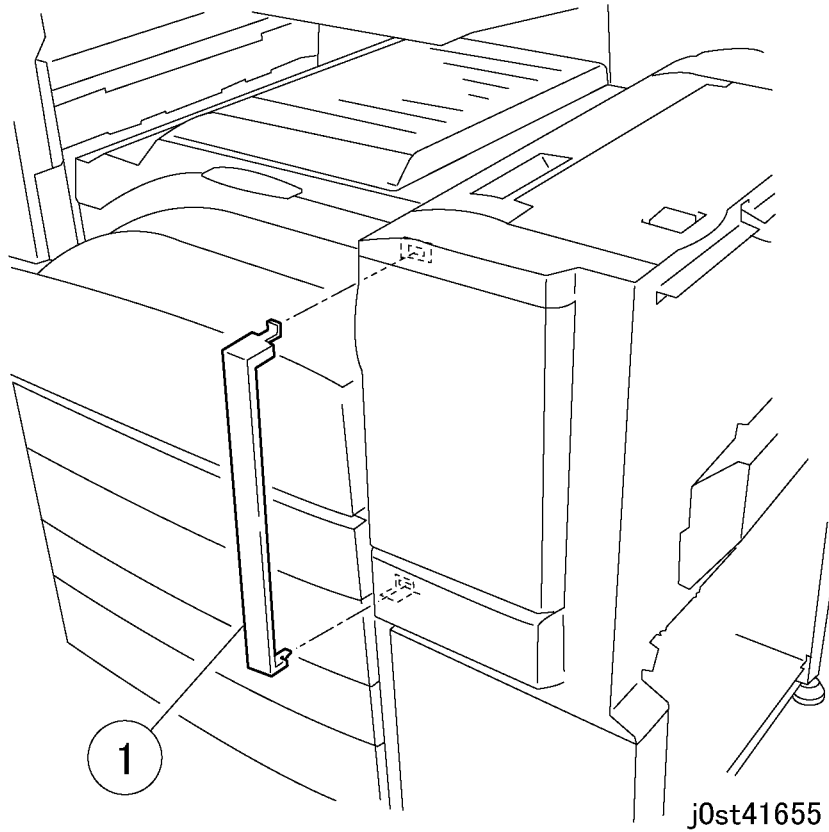


Figure 2 Removing the cover

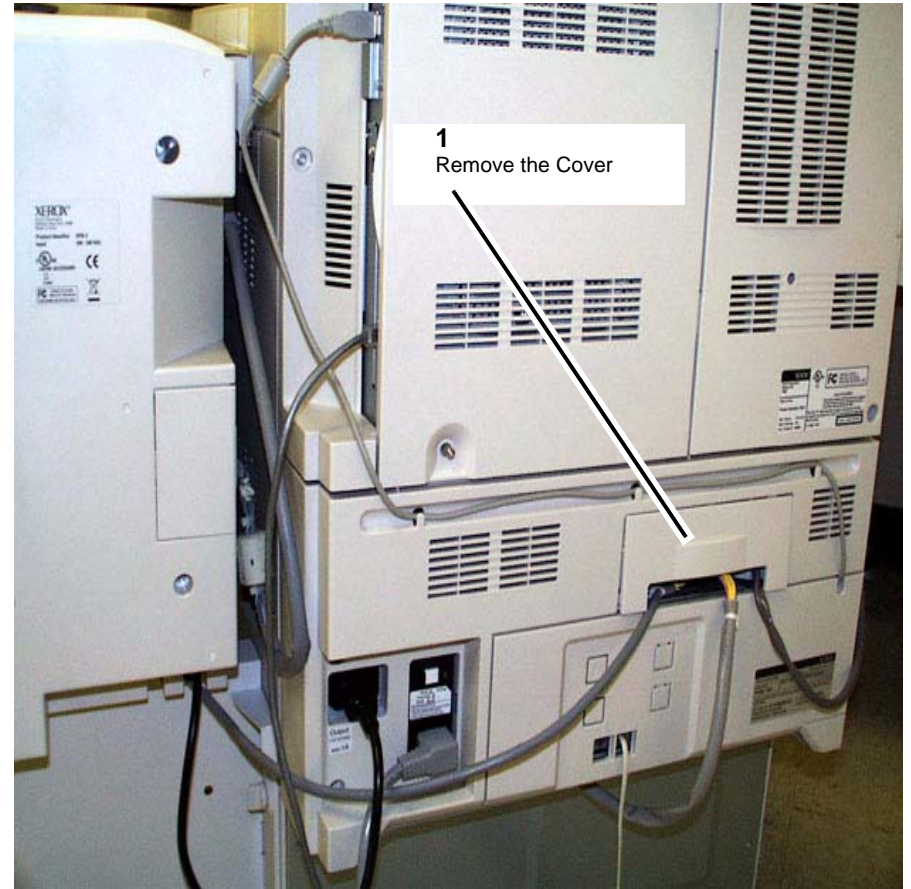


Figure 3 Removing the cover

3. Remove the cover. (Figure 3)
 1. Remove the cover.

4. Remove the Left Panel. (Figure 4)
 1. Remove the Left Panel.

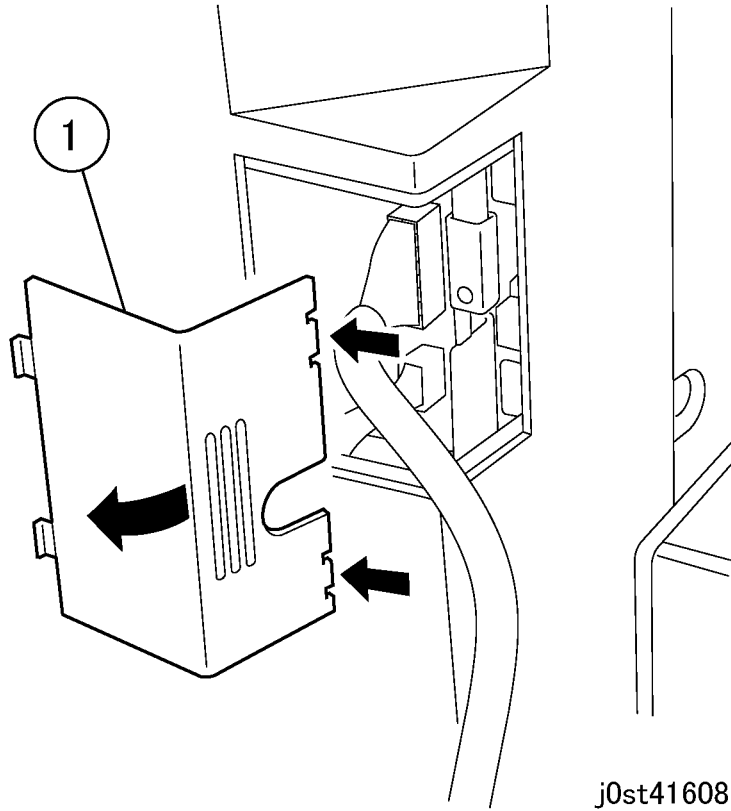


Figure 4 Removing the Left Panel

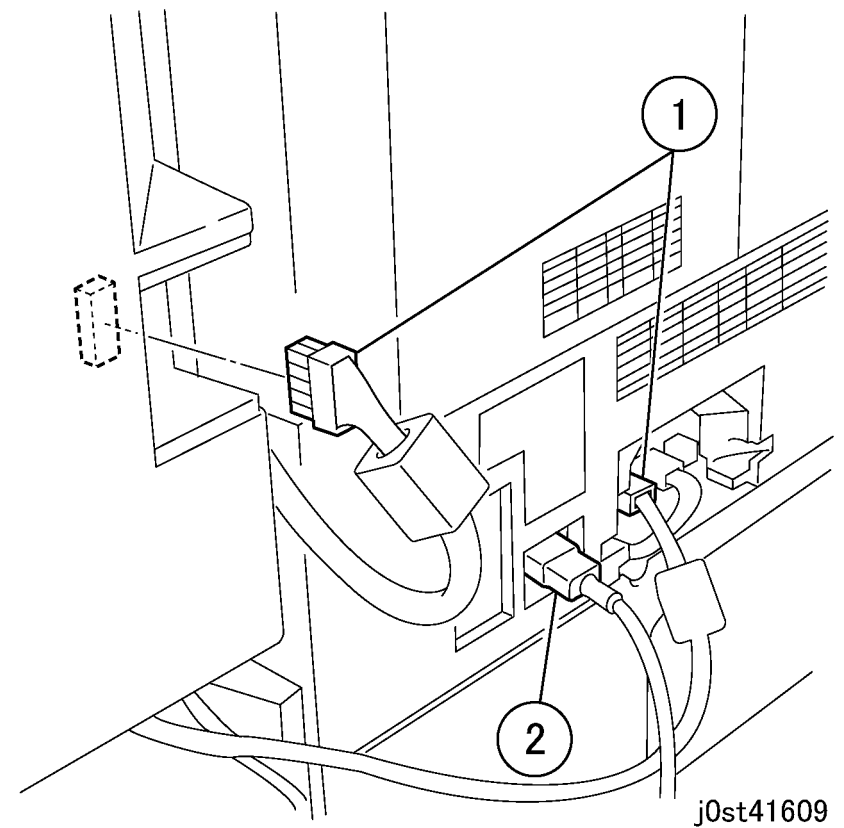
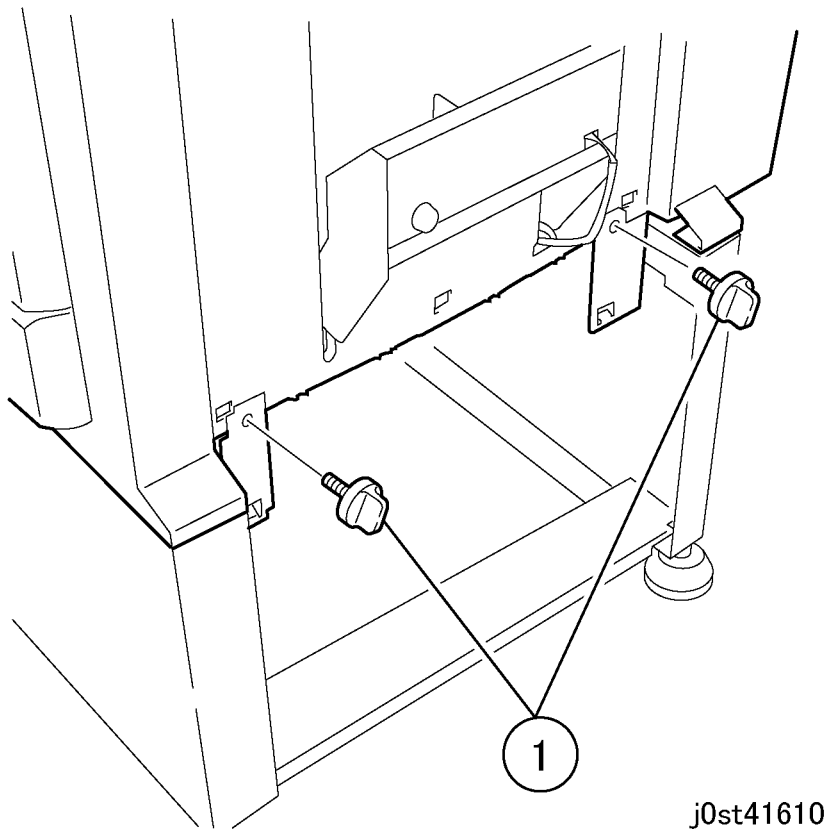


Figure 5 Disconnecting the cables and connectors

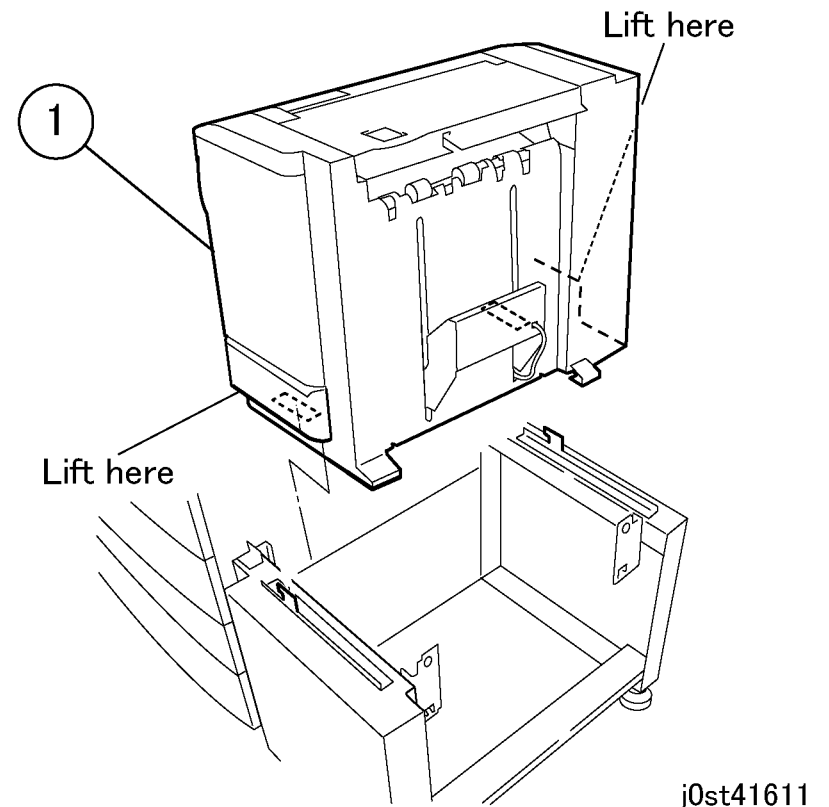
5. Disconnect the cables and connectors. (Figure 5)
 1. Disconnect the connectors (x2).
 2. Disconnect the cable.

6. Remove the Knob Screws. (Figure 6)
 1. Remove the Knob Screws (x2).



j0st41610

Figure 6 Removing the Knob Screws



j0st41611

Figure 7 Removing the Finisher Assembly

7. Move the Finisher Assembly to the left and lower it down from the rack. (Figure 7)
 1. Remove the Finisher Assembly.

REP 16.3.1 H-Transport Belt

Parts List on PL 17.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the H-Transport Assembly. (REP 16.1.1)
2. Remove the H-Transport Rear Cover. (Figure 1)
 1. Remove the screws (x2).
 2. Remove the H-Transport Rear Cover.

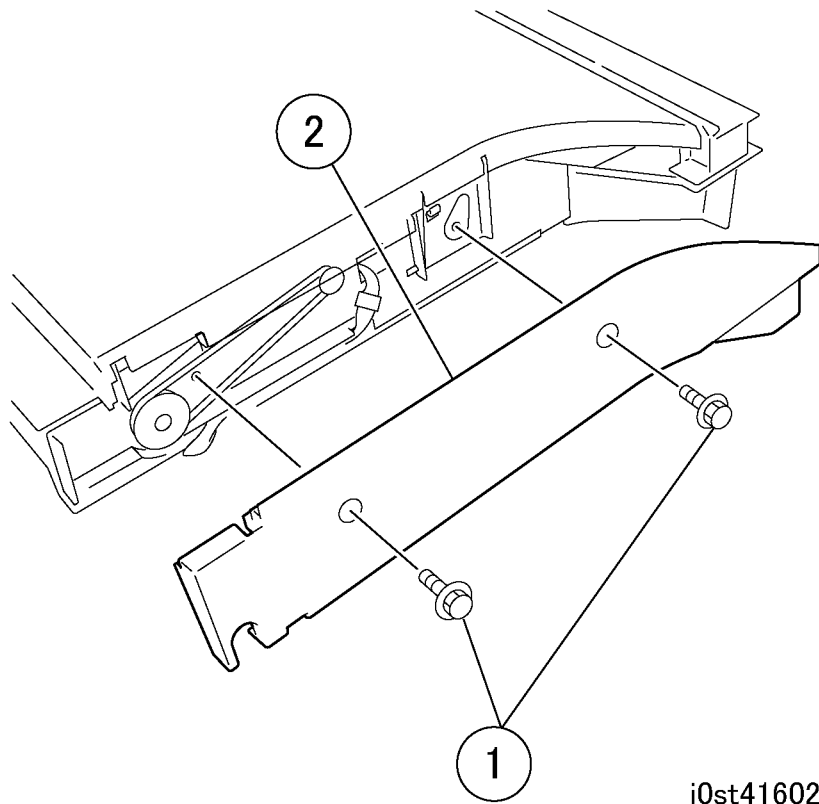


Figure 1 Removing the H-Transport Rear Cover

3. Remove the belt. (Figure 2)
 1. Remove the E-Clip.
 2. Remove the belt.
 3. Remove the pulley and bearing.

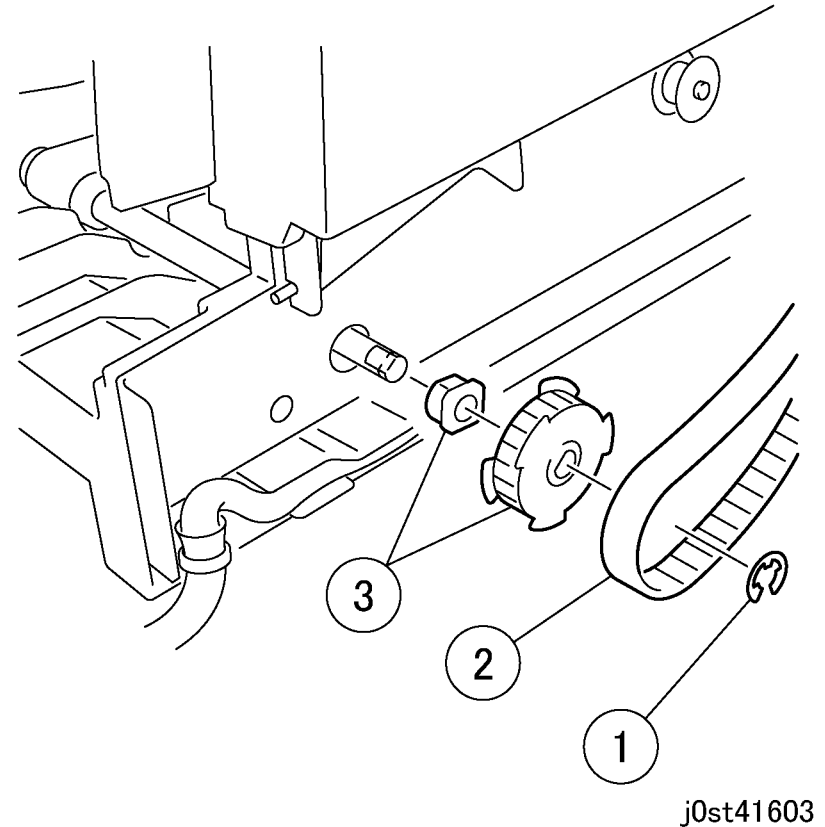
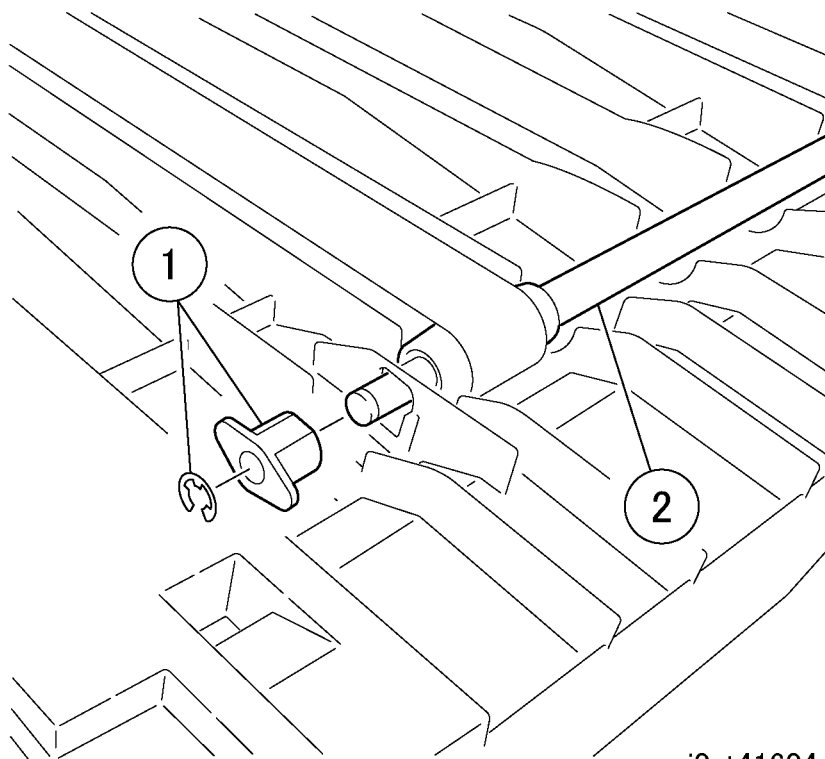


Figure 2 Removing the belt

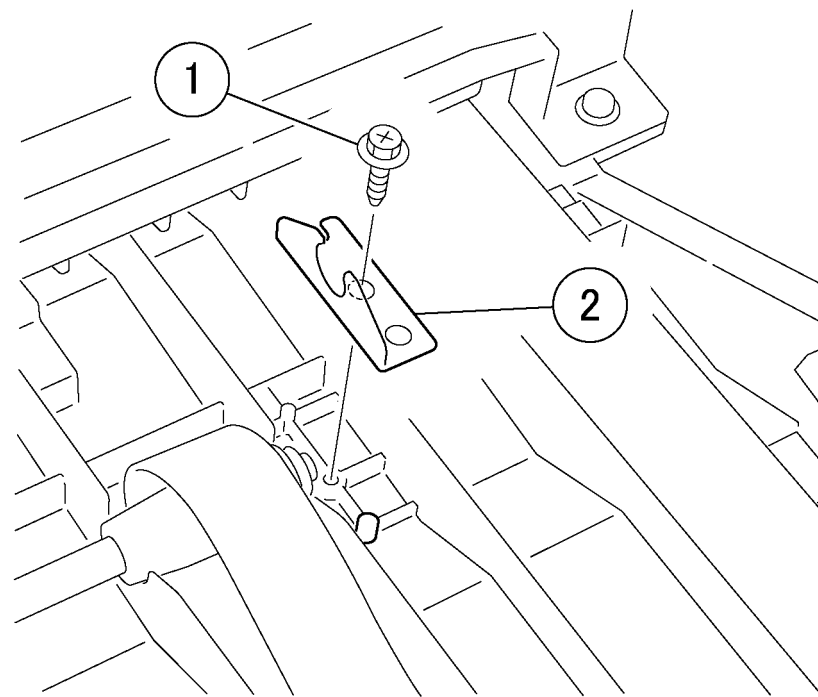
4. Remove the Transport Roll. (Figure 3)
 1. Remove the E-Clip and bearing.
 2. Remove the Transport Roll.



j0st41604

Figure 3 Removing the Transport Roll

5. Remove the bracket. (Figure 4)
 1. Remove the screw.
 2. Remove the bracket.



j0st41605

Figure 4 Removing the bracket

6. Remove the H-Transport Belt. (Figure 5)
 1. Remove the rollers (x2).
 2. Remove the H-Transport Belts (x2).

REP 16.4.1 Front Cover Assembly

Parts List on PL 17.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Front Cover Assembly. (Figure 1)

1. Remove the screws (x4).
2. Remove the Front Cover Assembly.

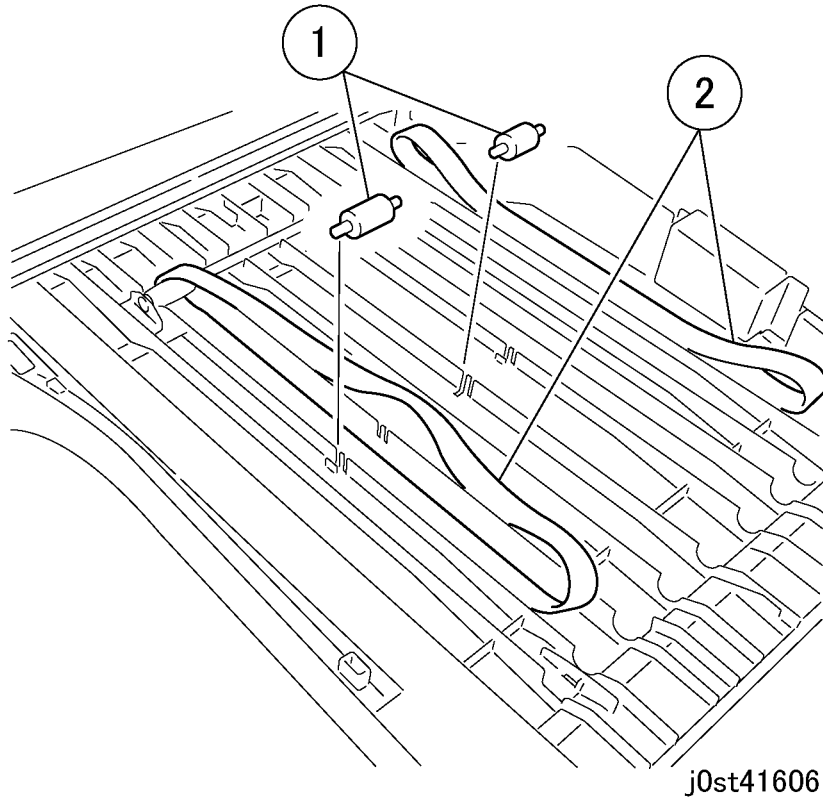


Figure 5 Removing the H-Transport Belt

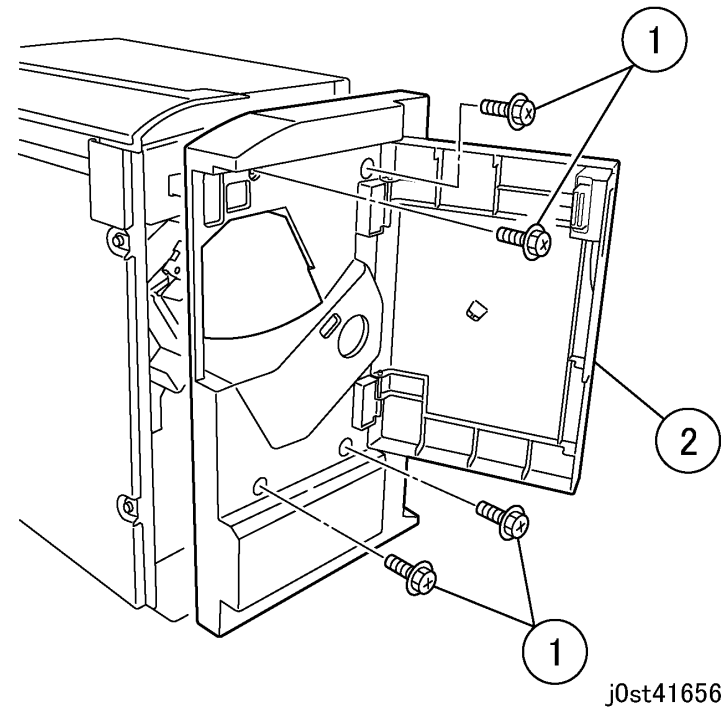


Figure 1 Removing the Front Cover Assembly

REP 16.4.2 Rear Cover

Parts List on PL 17.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Left Panel. (Figure 1)

1. Remove the Left Panel.

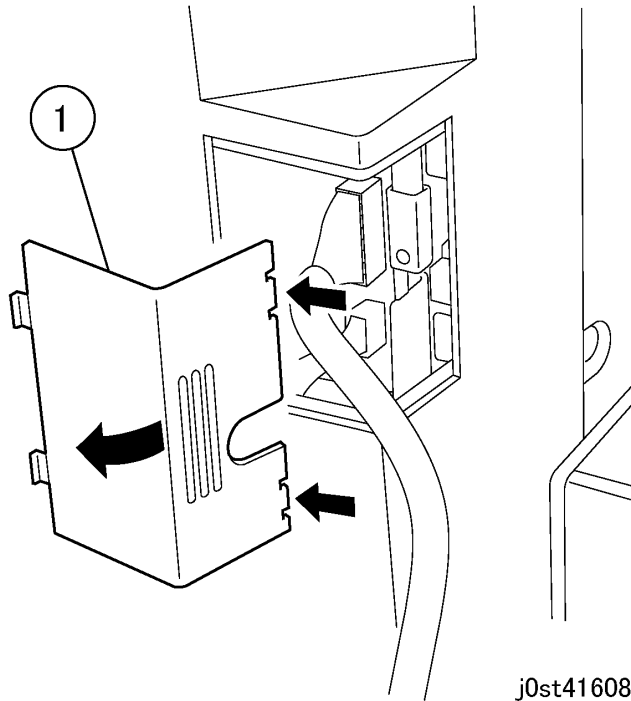


Figure 1 Removing the Left Panel

2. Remove the connector. (Figure 2)

1. Remove the connector.

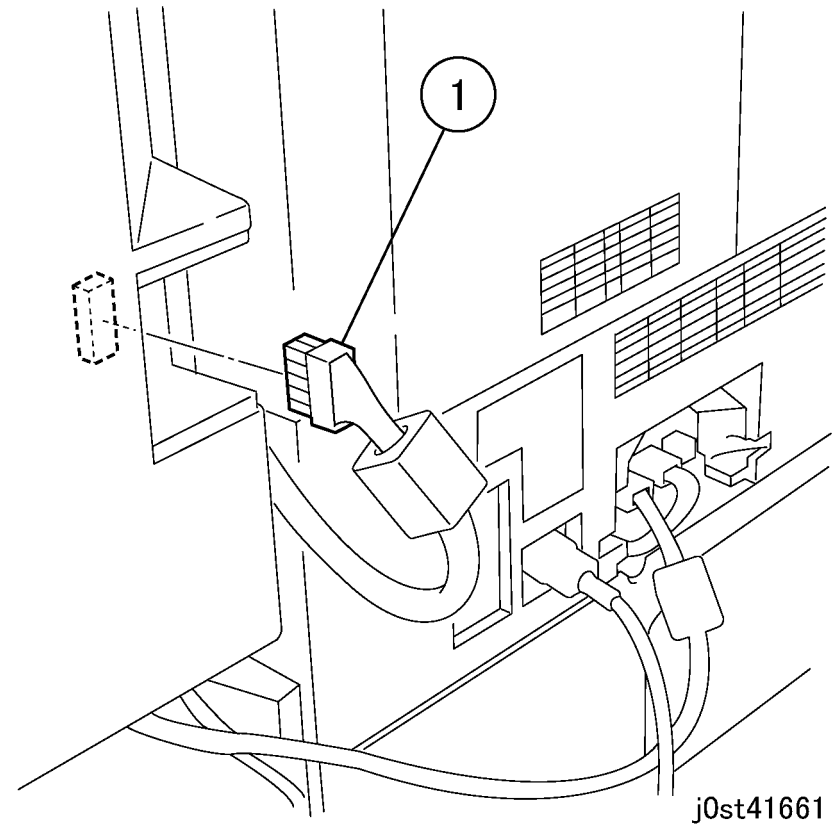


Figure 2 Removing the connector

3. Remove the Rear Cover. (Figure 3)

1. Remove the screws (x4).

2. Remove the Rear Cover.

REP 16.5.1 Stack Height Sensor Assembly

Parts List on PL 17.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the link from the Top Open Cover Assembly. (Figure 1)

1. Lift up the Top Open Cover Assembly.
2. Remove the screws on both sides.
3. Remove the links on both sides.

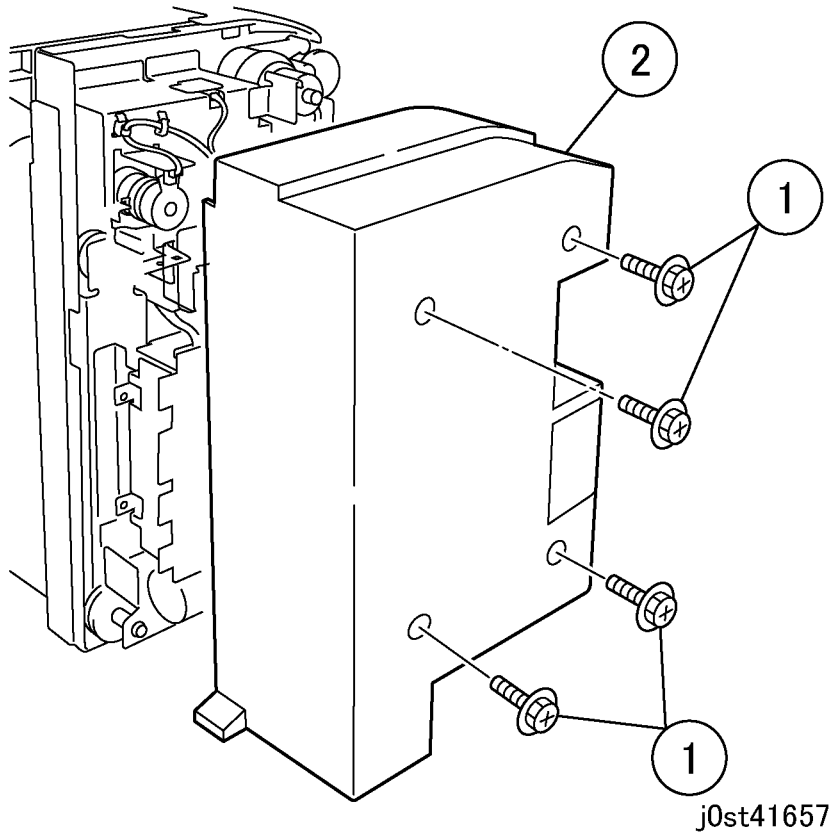


Figure 3 Removing the Rear Cover

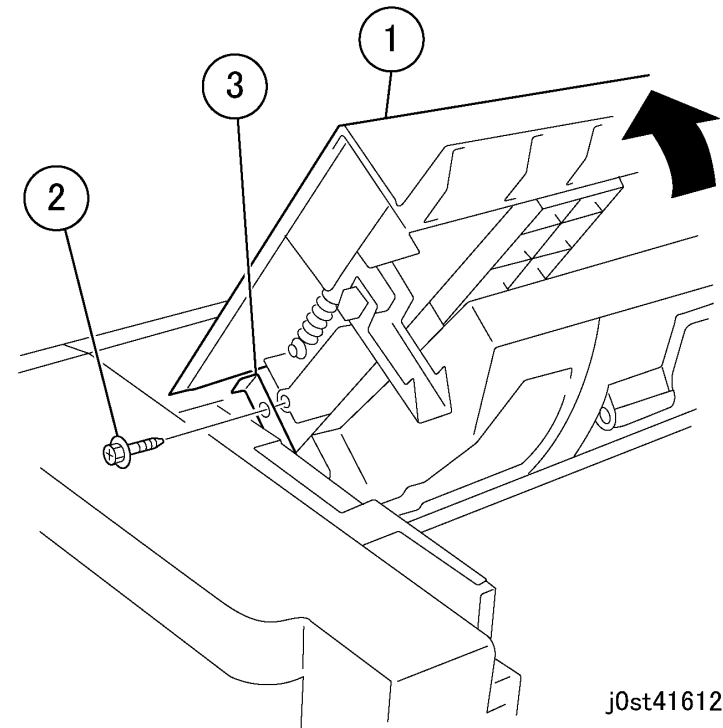


Figure 1 Removing the link

2. Remove the Stack Height Sensor Assembly. (Figure 2)

1. Remove the screw.
2. Disconnect the connector.
3. Remove the Stack Height Sensor Assembly.

REP 16.5.2 Eject Roll Assembly

Parts List on PL 17.5

Removal

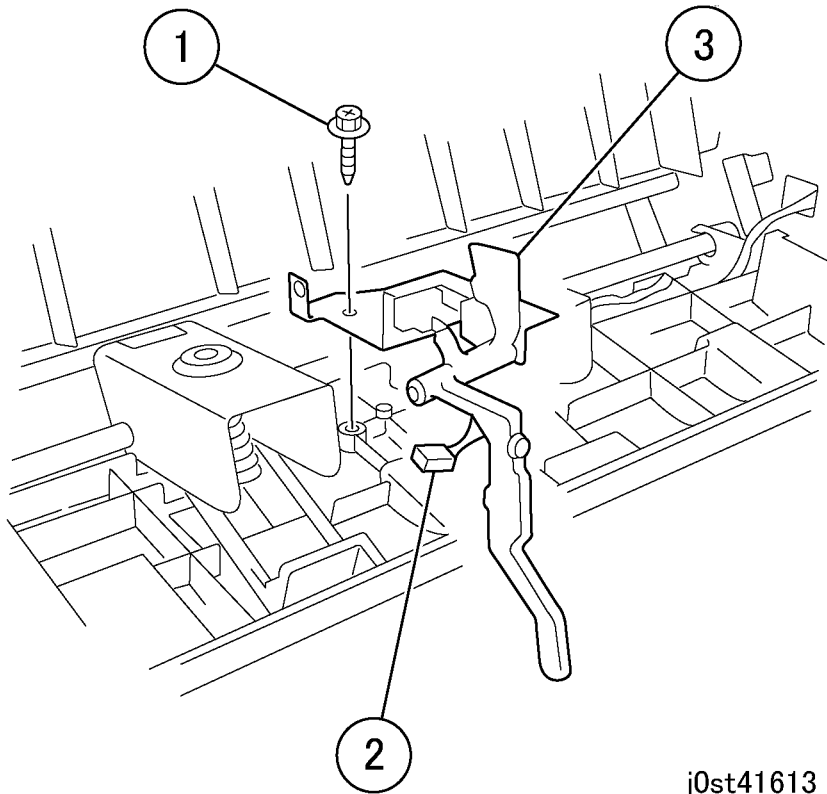
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

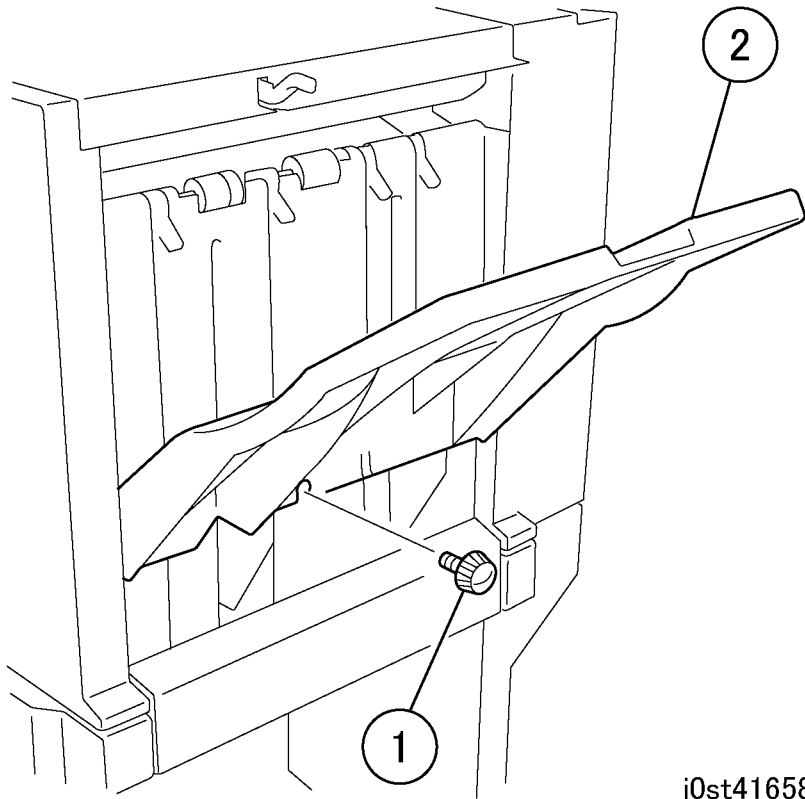
Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the following parts:
 - Rear Cover (REP 16.4.2)
 - Front Cover Assembly (REP 16.4.1)
2. Remove the Stacker Tray. (Figure 1)
 1. Remove the screw.
 2. Remove the Stacker Tray.



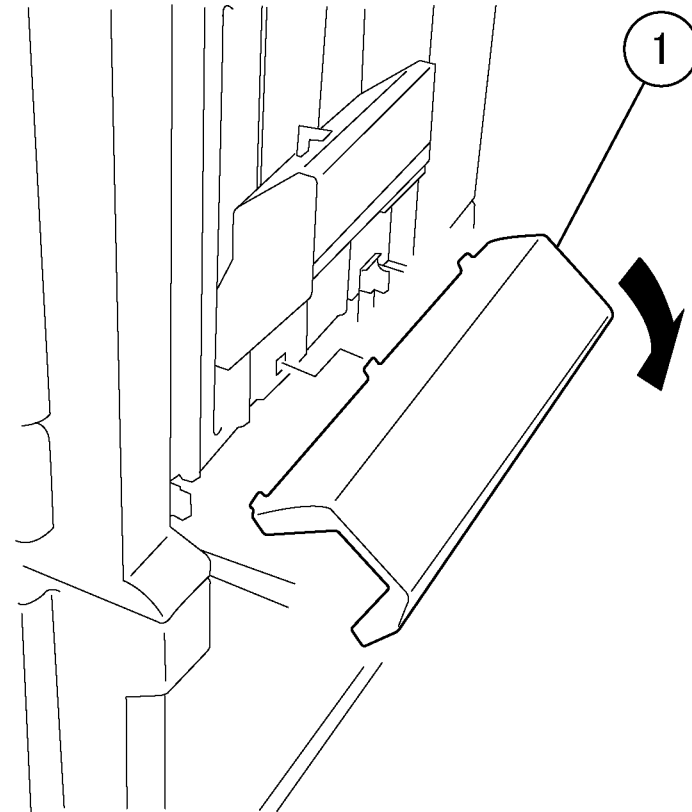
j0st41613

Figure 2 Removing the Stack Height Sensor Assembly



j0st41658

Figure 1 Removing the Stacker Tray

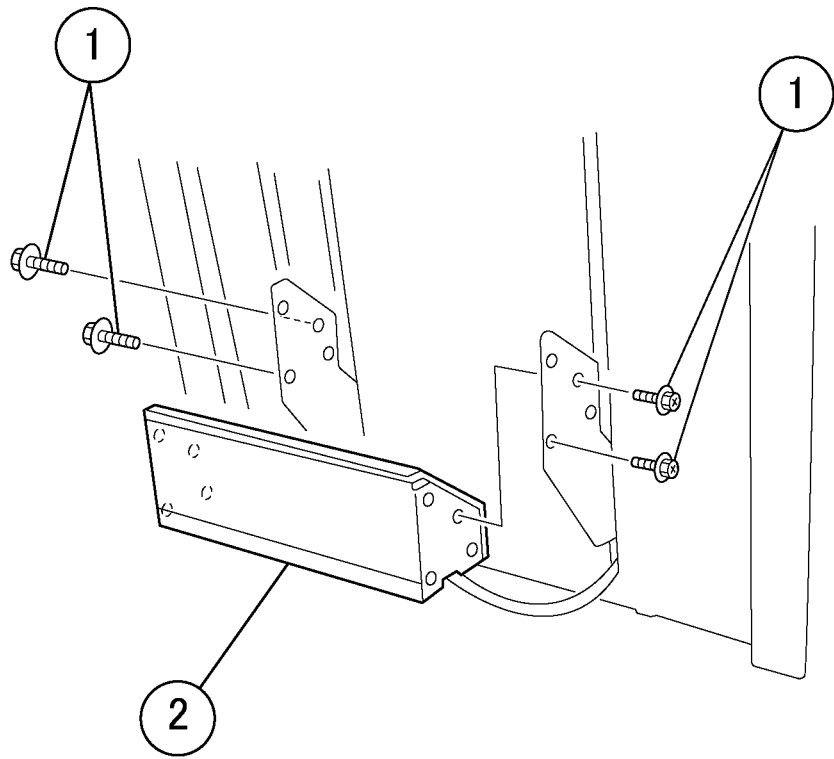


j0st41654

Figure 2 Removing the Right Cover

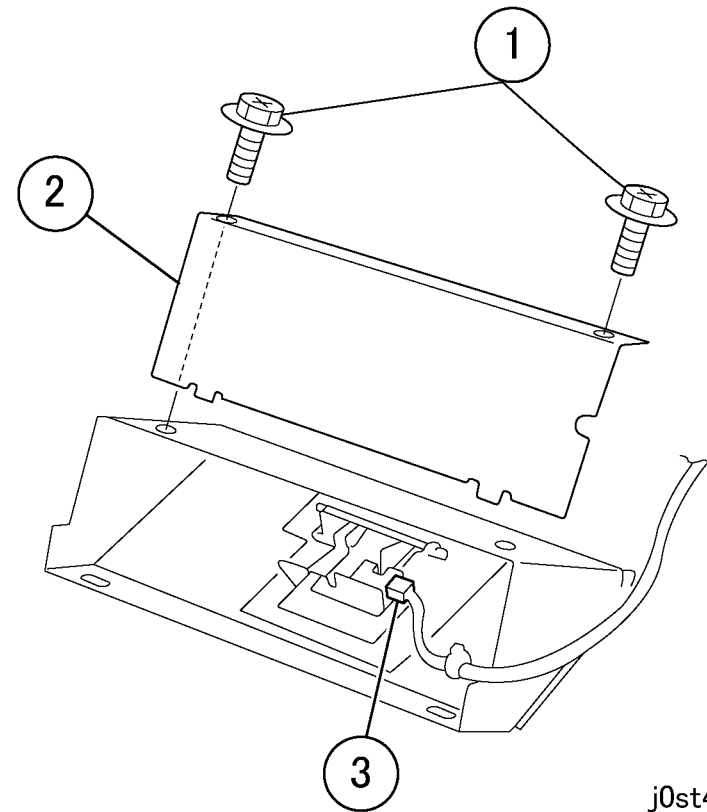
3. Remove the Right Cover. (Figure 2)
 1. Remove the Right Cover.

4. Remove the bracket. (Figure 3)
 1. Remove the screws (x4).
 2. Remove the bracket.



j0st41614

Figure 3 Removing the bracket



j0st41615

Figure 4 Disconnecting the connector

5. Disconnect the connector. (Figure 4)
 1. Remove the screws (x2).
 2. Remove the plate.
 3. Disconnect the connector.

6. Remove the Knob Screws. (Figure 5)
 1. Remove the Knob Screws (x2).

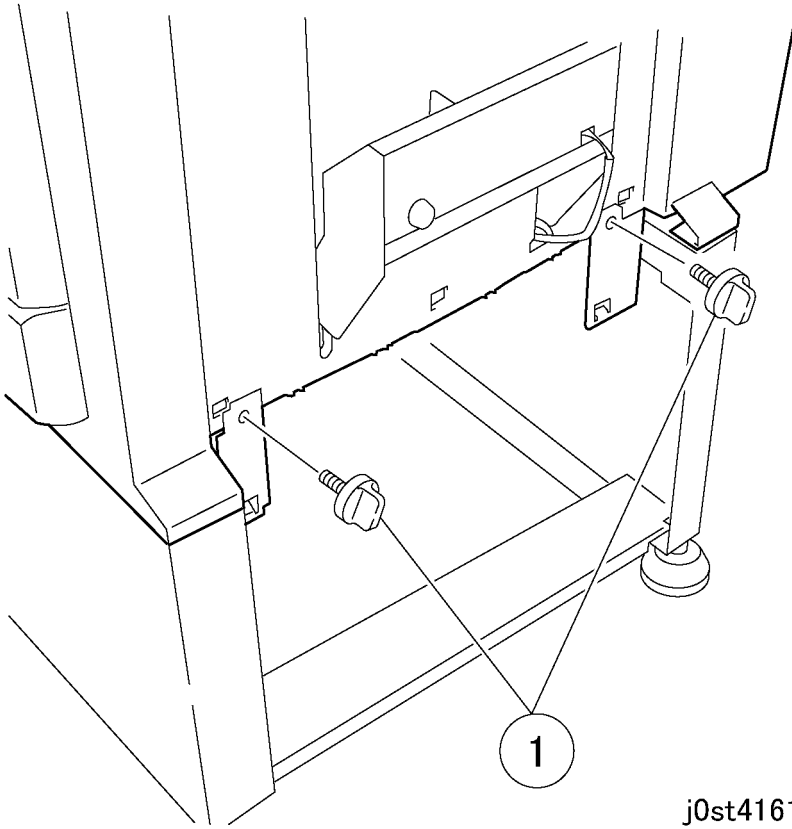
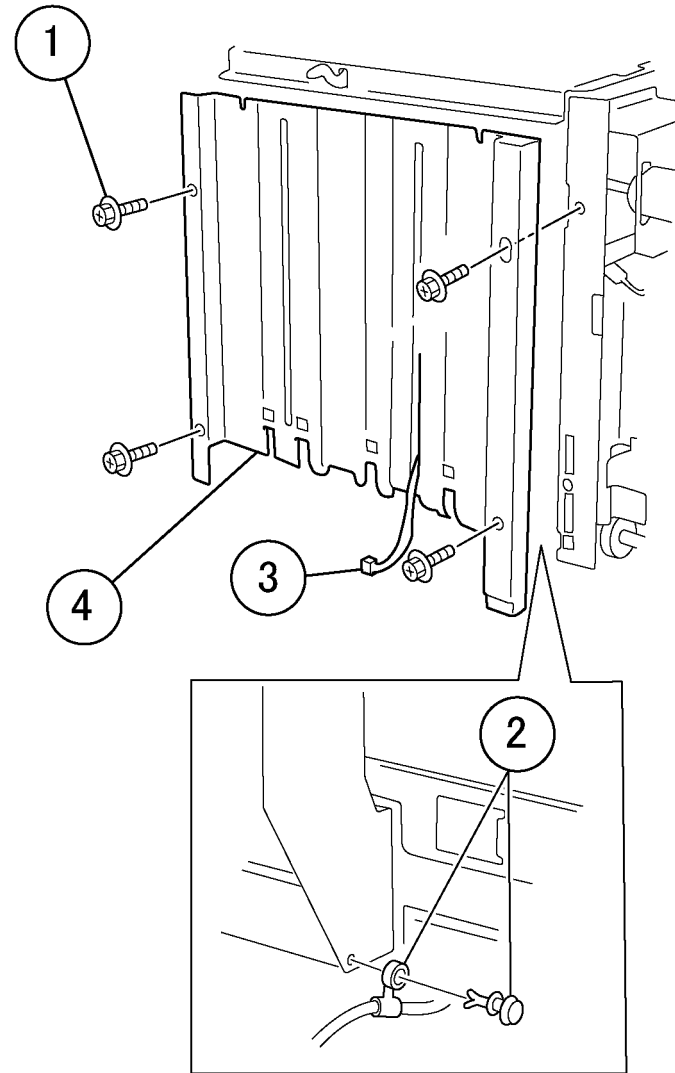


Figure 5 Removing the Knob Screws

j0st41616

7. Remove the Tray Guide. (Figure 6)
 1. Remove the screws (x4).
 2. Remove the rivet to remove the clamp.
 3. Remove the wire from the hole.
 4. Remove the Tray Guide.



j0st41617

Figure 6 Removing the Tray Guide

8. Remove the Set clamp clutch. (Figure 7)
 1. Remove the clamp.
 2. Remove the screw.
 3. Remove the spring.

4. Release the hook to remove the actuator.
5. Remove the Set clamp clutch.

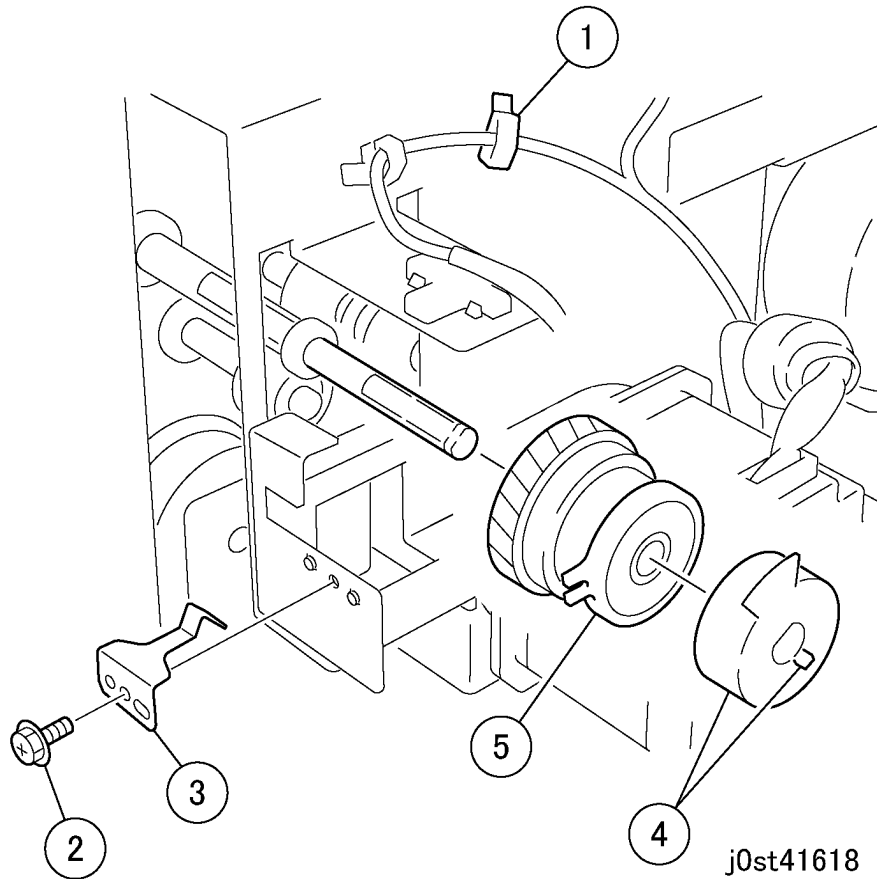


Figure 7 Removing the Set Clamp clutch

9. Remove the Eject Roll. (Figure 8)
 1. Remove the E-Clip and bearing on both sides.
 2. Remove the hook from the Eject Shaft.
 3. Remove the Eject Roll.

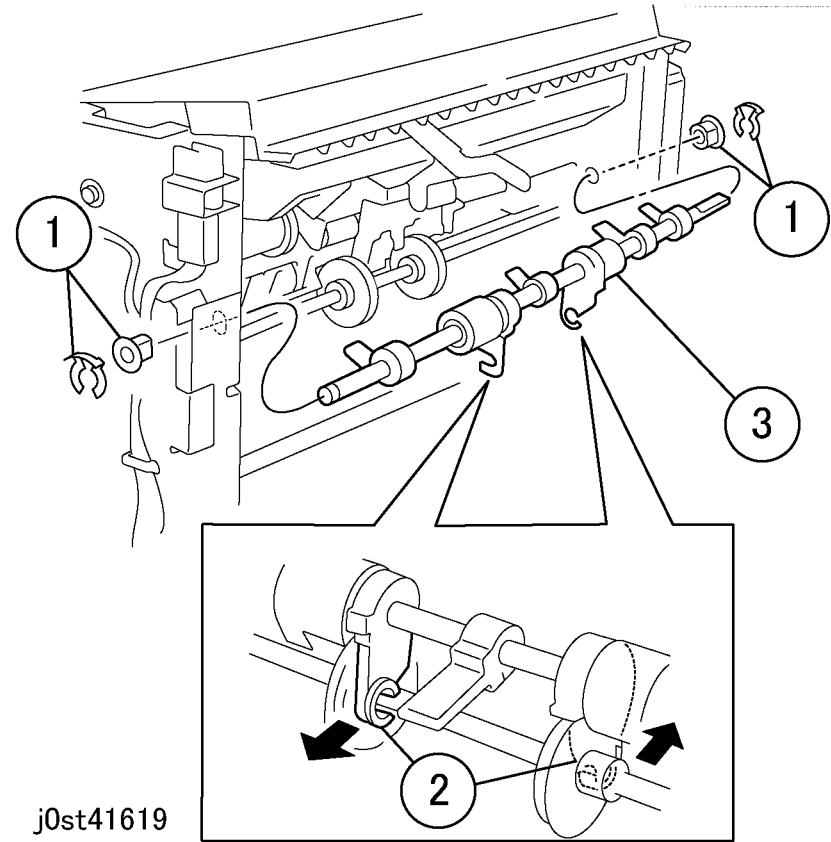


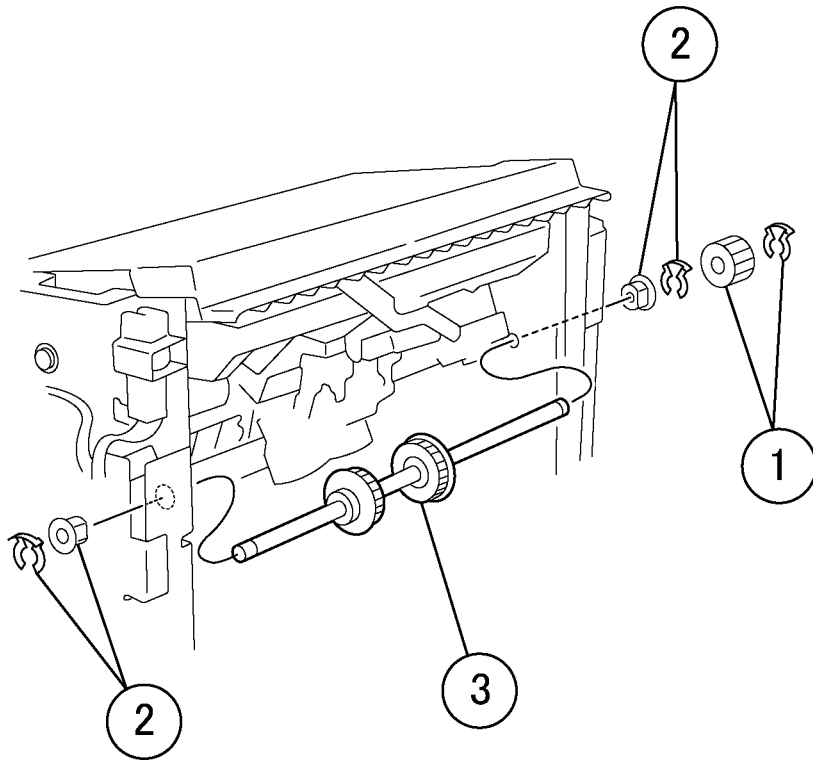
Figure 8 Removing the Eject Roll

10. Remove the Eject Shaft. (Figure 9)
 1. Remove the E-Clip and gear.
 2. Remove the E-Clip and bearing on both sides.
 3. Remove the Eject Shaft.

Replacement

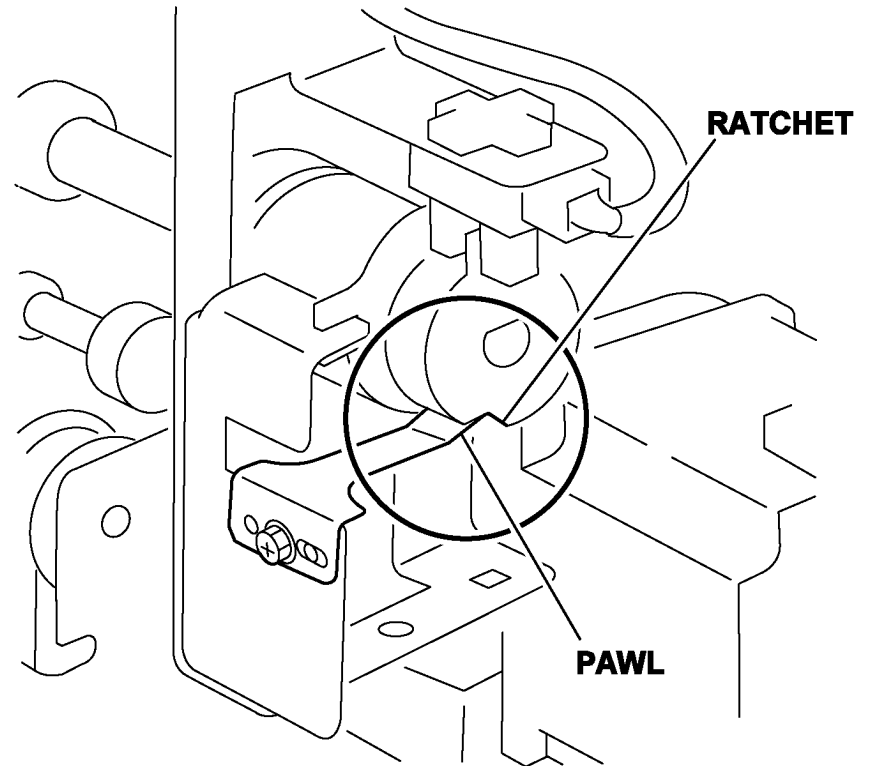
NOTE: Replace the Exit Roll and Eject Roll at the same time.

NOTE: When installing the Actuator, ensure that the stopper is inserted into the ditch of the Actuator as illustrated below. (Figure 10)



j0st41620

Figure 9 Removing the Eject Shaft



j0st41621

Figure 10 Installing the Actuator

REP 16.6.1 Decurler Roll

Parts List on PL 17.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the following parts:
 - Front Cover Assembly (REP 16.1.2)
 - Rear Cover (REP 16.4.1)
2. Remove the Top Cover. (Figure 1)
 1. Loosen the screws (x4).
 2. Remove the Top Cover.

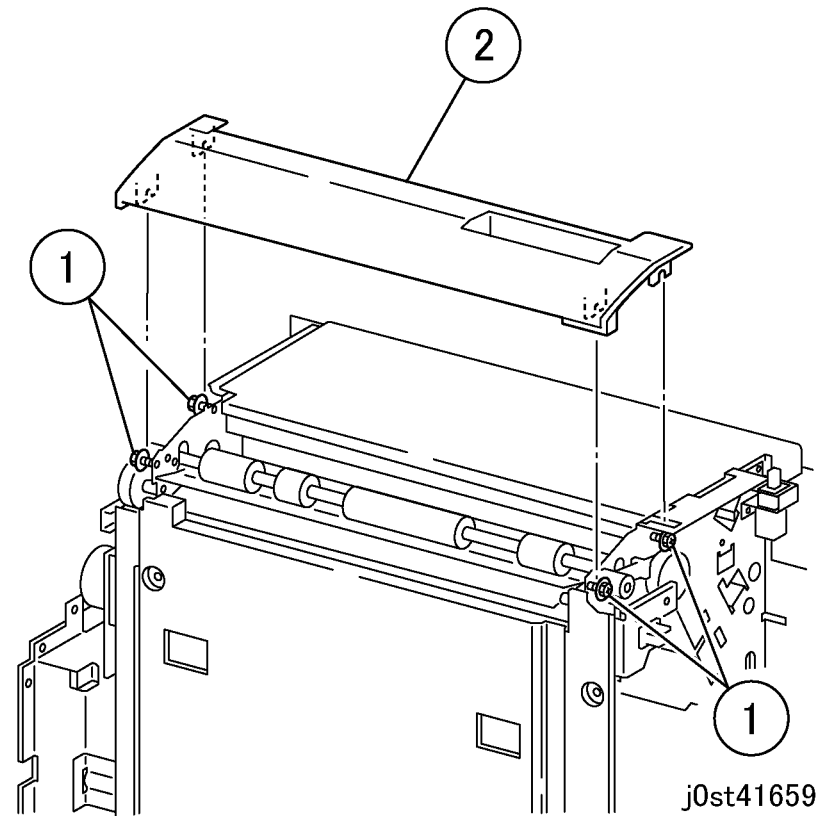


Figure 1 Removing the Top Cover

3. Remove the arm. (Figure 2)
 1. Remove the spring.
 2. Remove the E-Clip.
 3. Remove the arm.

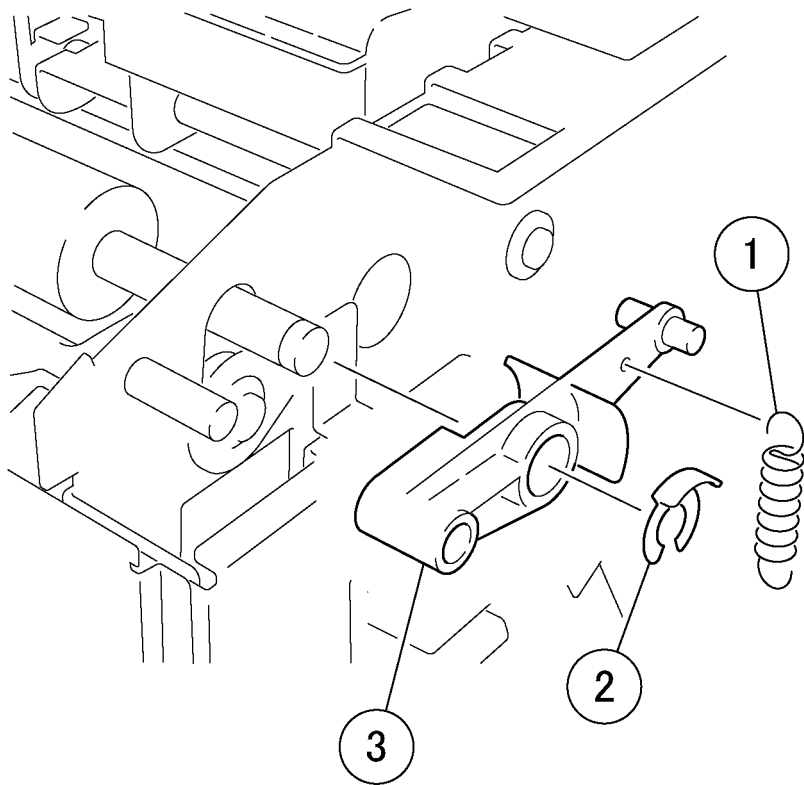


Figure 2 Removing the arm

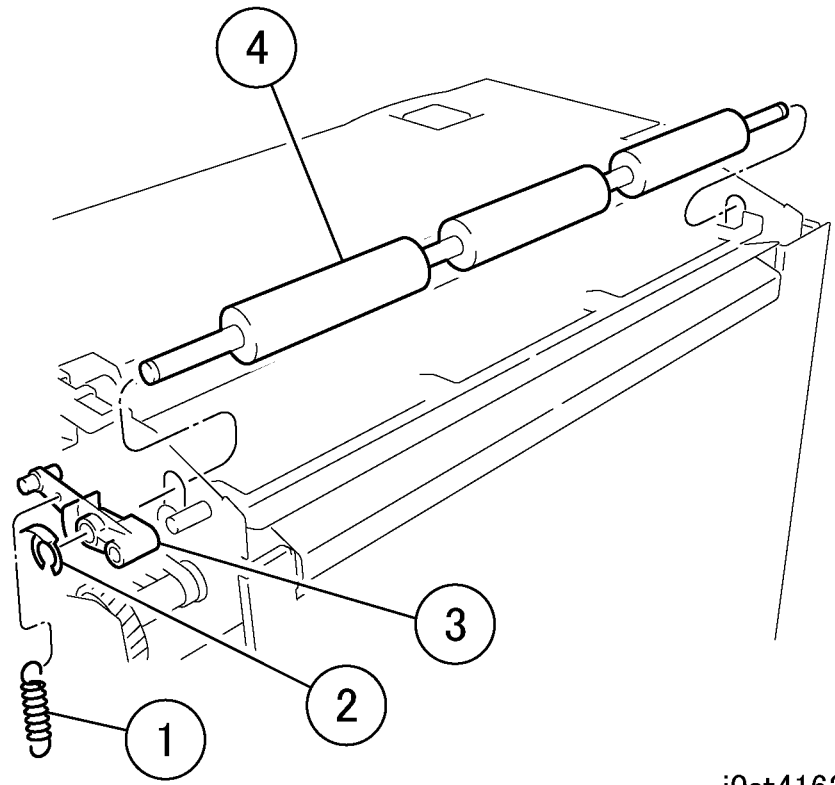


Figure 3 Removing the Decurler Roll Assembly

4. Remove the Decurler Roll Assembly. (Figure 3)
 1. Remove the spring.
 2. Remove the E-Clip.
 3. Remove the arm.
 4. Remove the Decurler Roll Assembly.

REP 16.6.2 Finisher Drive Motor

Parts List on PL 17.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Rear Cover. (REP 16.4.1)
2. Remove the Finisher Drive Motor. (Figure 1)
 1. Disconnect the connector.
 2. Remove the screws (x4).
 3. Remove the Finisher Drive Motor.

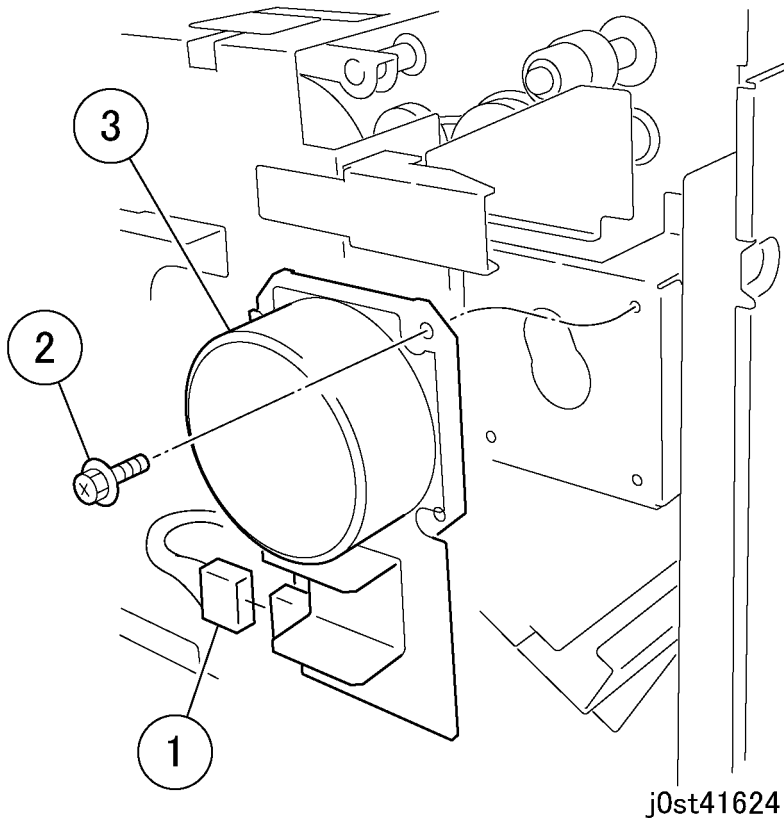


Figure 1 Removing the Finisher Drive Motor

REP 16.7.1 Paper Eject Belt

Parts List on PL 17.7

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Rear Cover. (REP 16.4.1)
2. Turn the actuator. (Figure 1)
 1. Turn the actuator in the direction of the arrow.

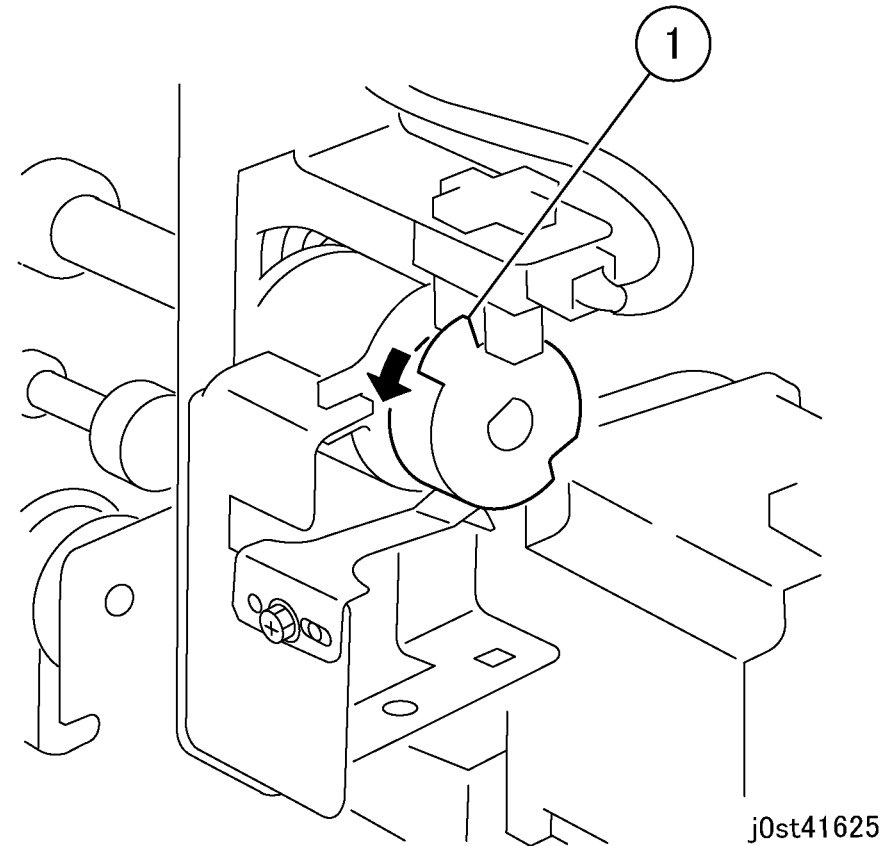
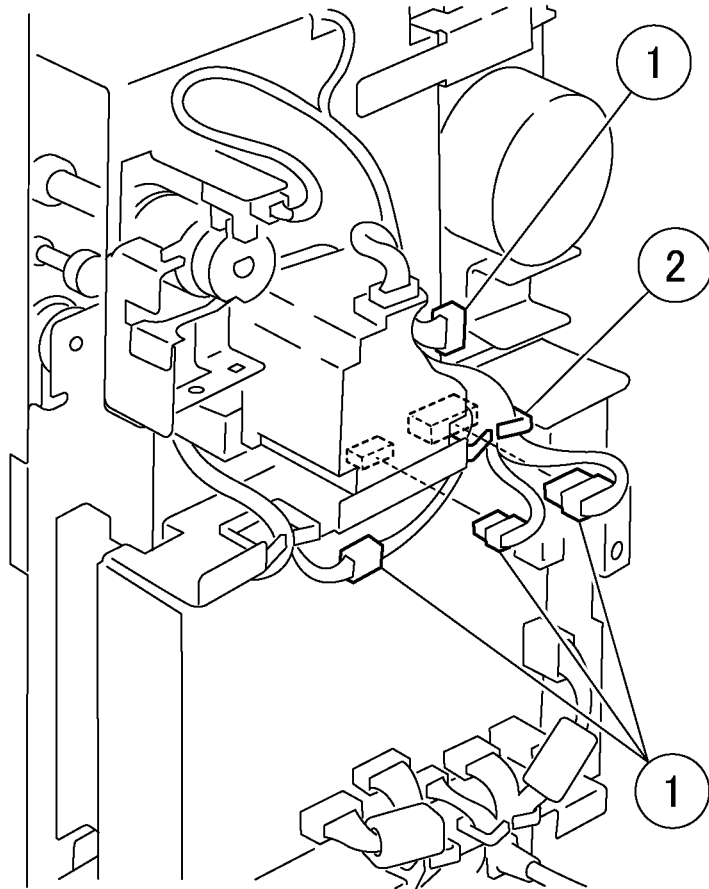


Figure 1 Turning the actuator

3. Release the clamp to remove the wire. (Figure 2)

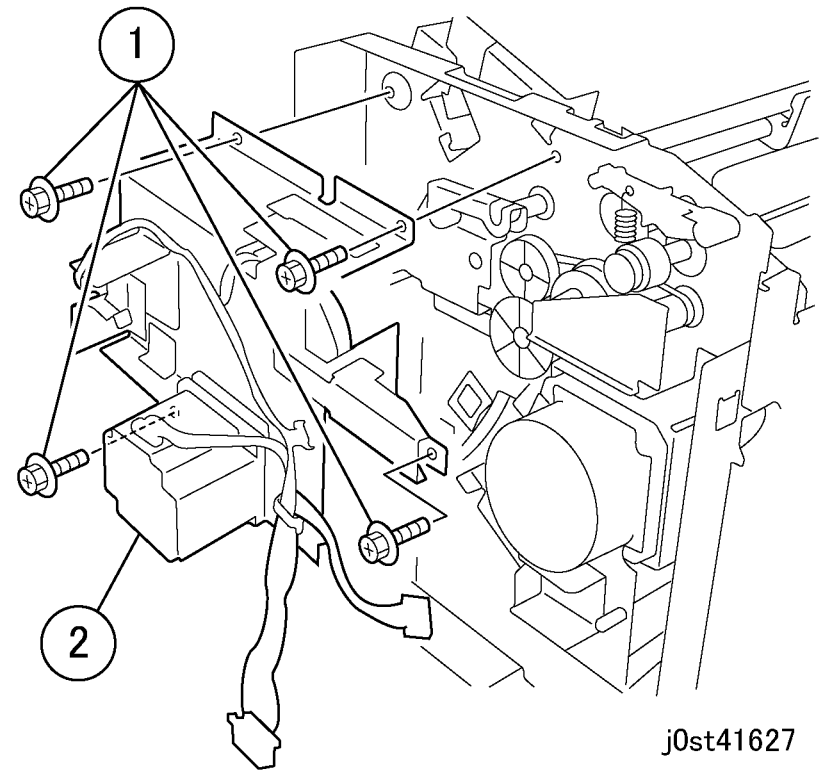
1. Disconnect the connectors (x4).
2. Release the Edge Saddle to remove the wire.



j0st41626

Figure 2 Disconnecting the connectors

4. Remove the Cam Bracket Assembly. (Figure 3)
 1. Remove the screws (x4).
 2. Remove the Cam Bracket Assembly.



j0st41627

Figure 3 Removing the Cam Bracket Assembly

5. Remove the belt. (Figure 4)
 1. Remove the E-Clip to remove the gear.
 2. Remove the E-Clip to remove the pulley.
 3. Remove the Paper Eject Belt.

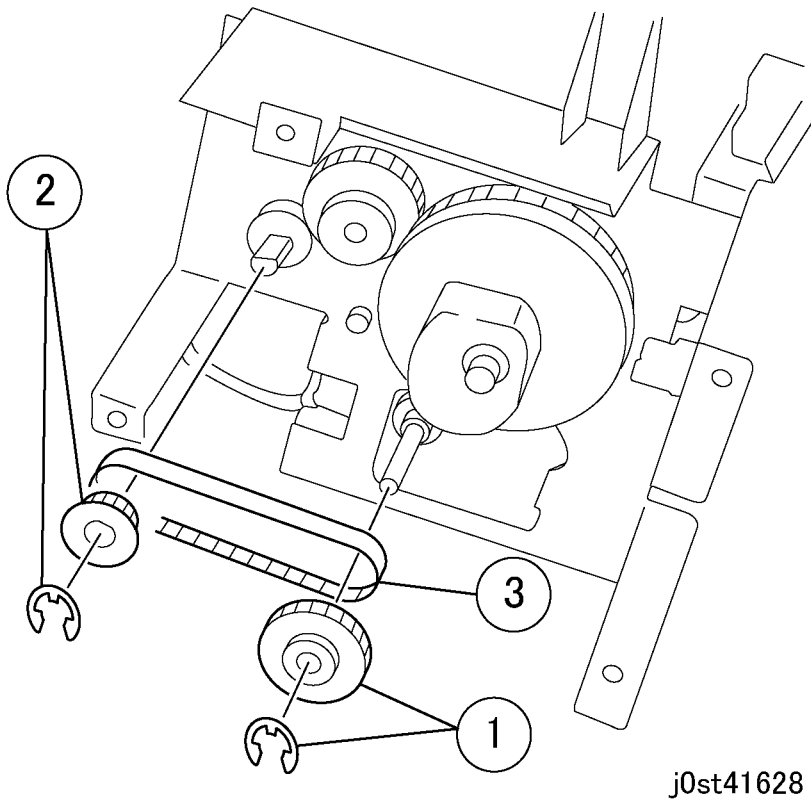


Figure 4 Removing the belt

Replacement

1. To install, carry out the removal steps in reverse order taking note of the following:

NOTE: Make sure the stud on the Cam Bracket Assembly is inserted into the hole. (Figure 5)

1. Lift up the Upper Cover to lift up the roller.
2. Insert the stud into the hole.

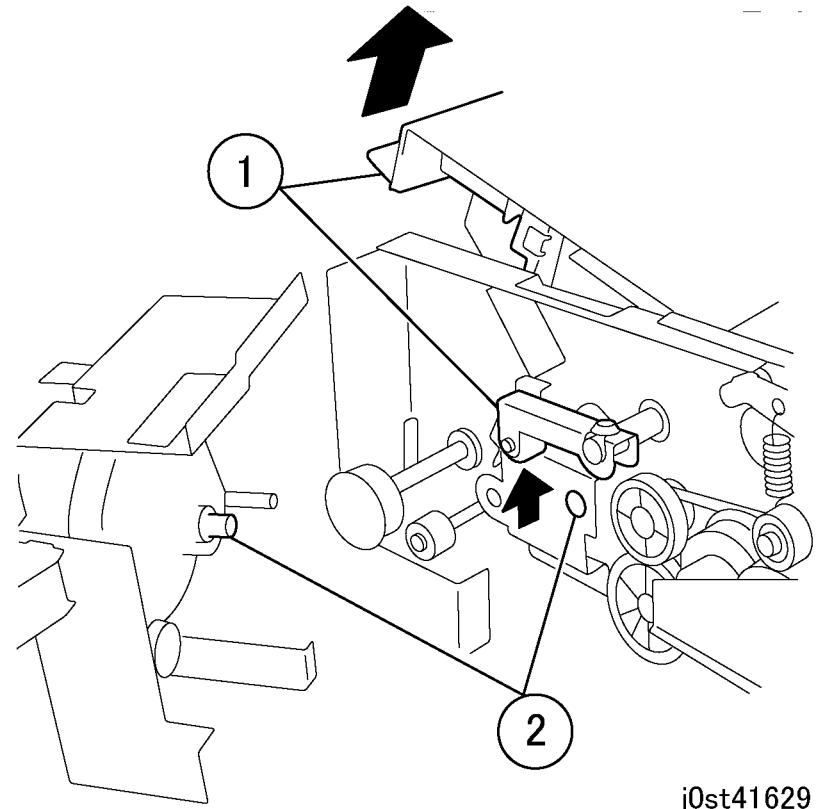
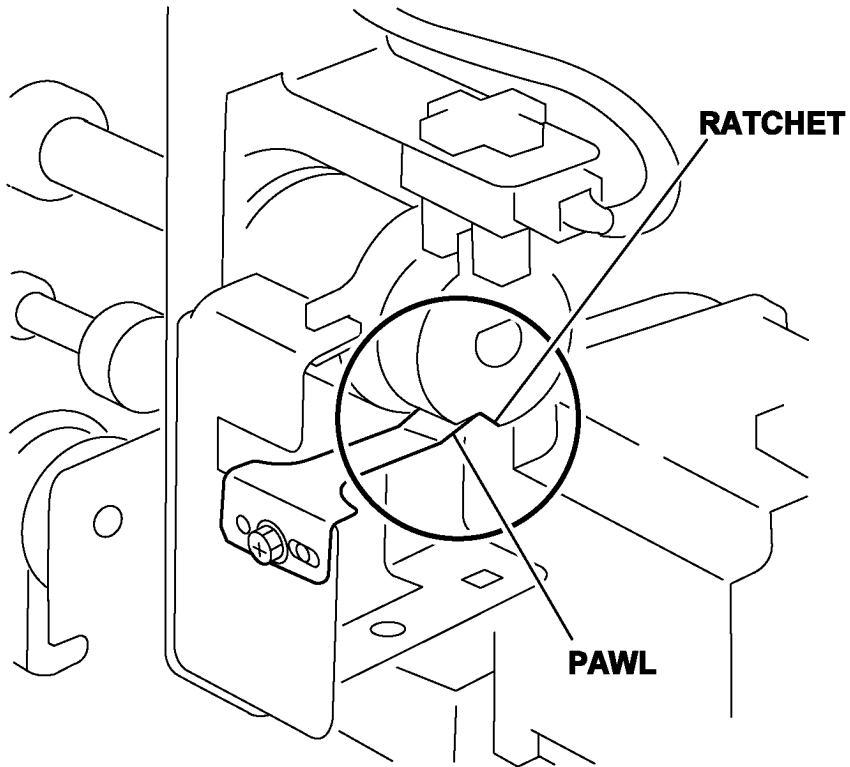


Figure 5 Installing the Cam Bracket Assembly

NOTE: When installing the Actuator, ensure the stopper is inserted into the ditch of the Actuator as illustrated below. (Figure 6)



j0st41621

Figure 6 Installing the Actuator

REP 16.8.1 Staple Unit Rail

Parts List on PL 17.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the following parts:
 - Staple Assembly (REP 16.8.2)
 - Front Cover Assembly (REP 16.1.2)
 - Rear Cover (REP 16.4.1)
2. Disconnect the connectors. (Figure 1)
 1. Disconnect the connectors (x5).
 2. Release the Edge Saddles (x4) to remove the wire.
 3. Remove the screw to remove the Earth Wire.

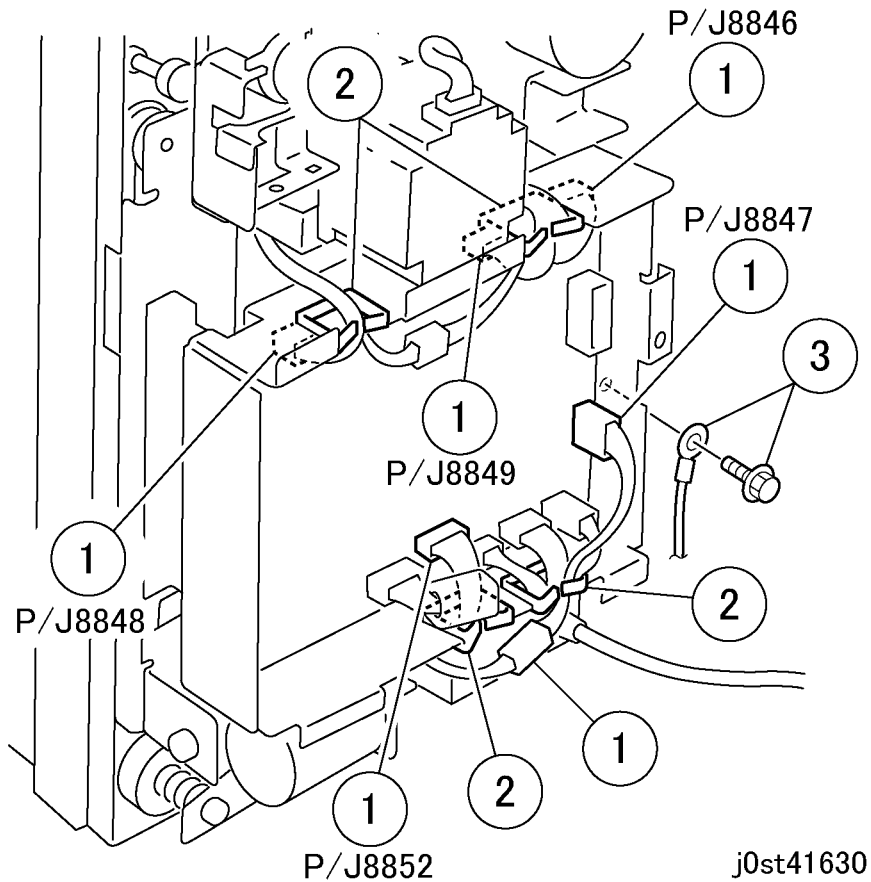


Figure 1 Disconnecting the connectors

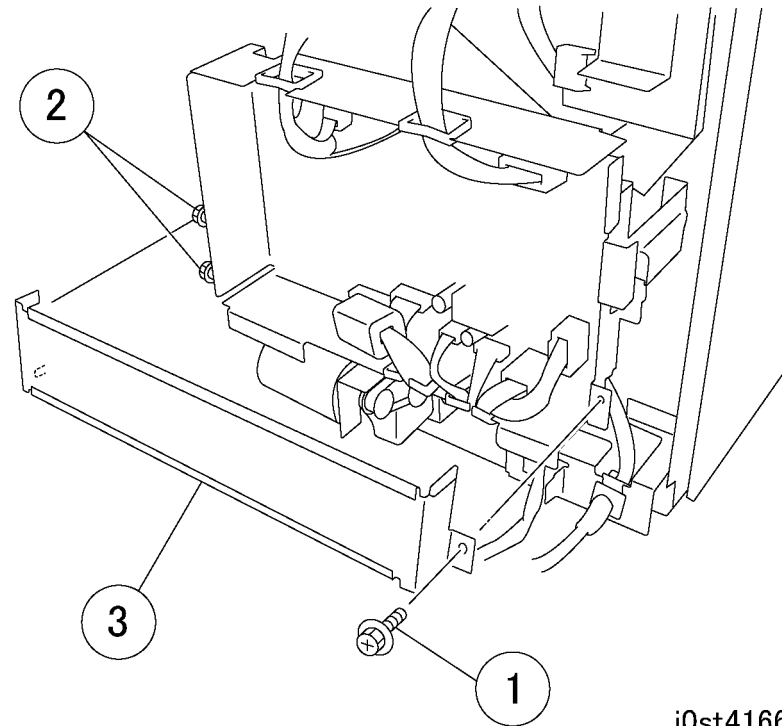
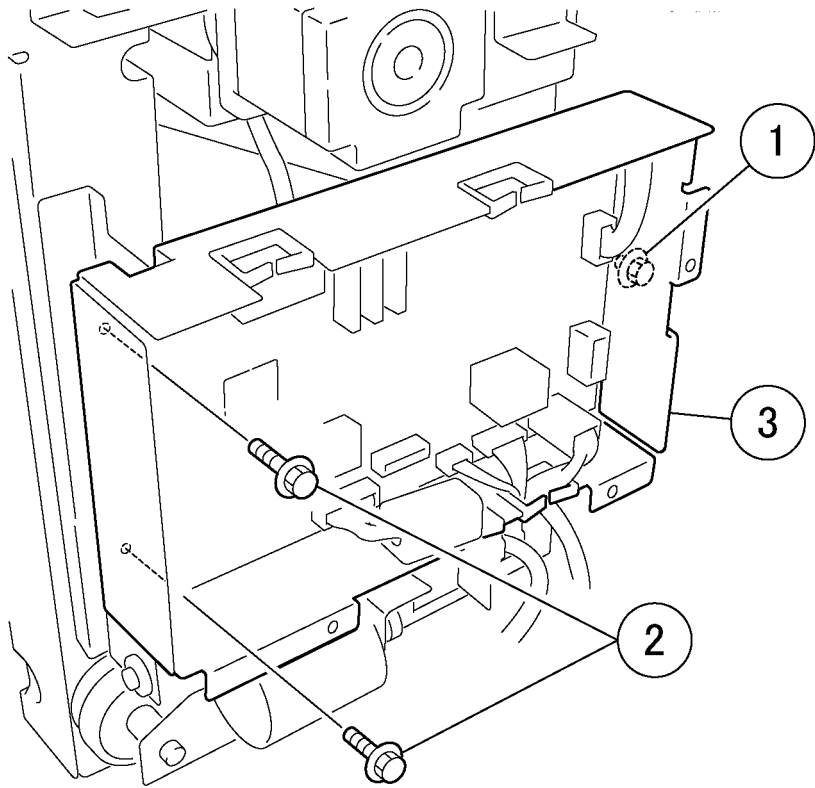


Figure 2 Removing the bracket

3. Remove the bracket. (Figure 2)
 1. Remove the screw.
 2. Loosen the screws (x2).
 3. Remove the bracket.

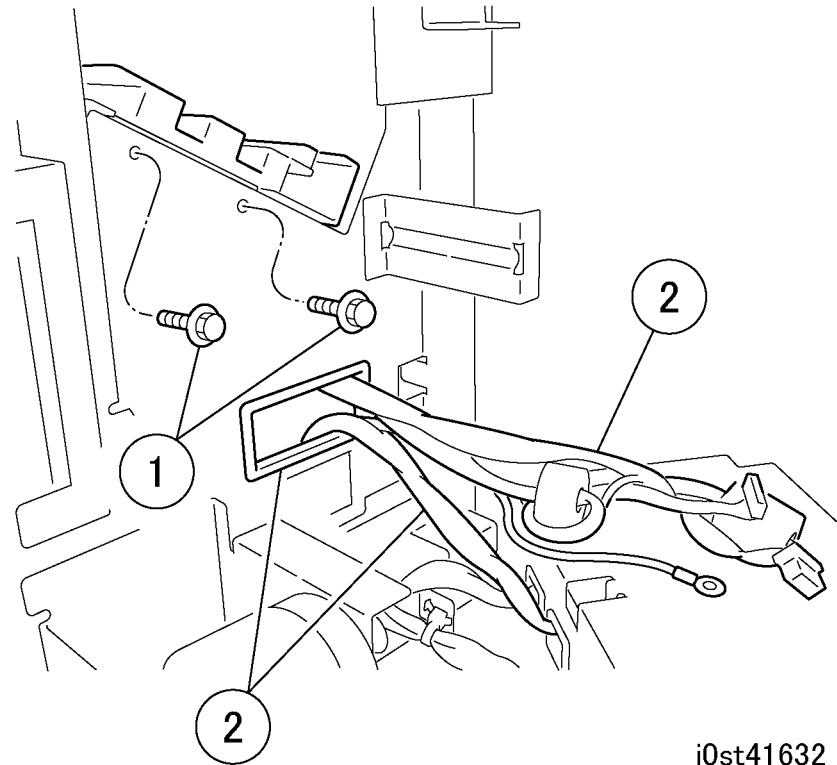
4. Move the PWB Bracket in the direction of the arrow. (Figure 3)
 1. Loosen the screw.
 2. Remove the screws (x2).
 3. Remove the PWB Bracket with the connector still connected.



j0st41631

Figure 3 Moving the PWB Bracket

5. Pull out the Wire Harness. (Figure 4)
 1. Remove the screws (x2).
 2. Pull out the Wire Harness.



j0st41632

Figure 4 Pulling out the Wire Harness

6. Remove the screws. (Figure 5)
 1. Disconnect the connector.
 2. Remove the screws (x2).

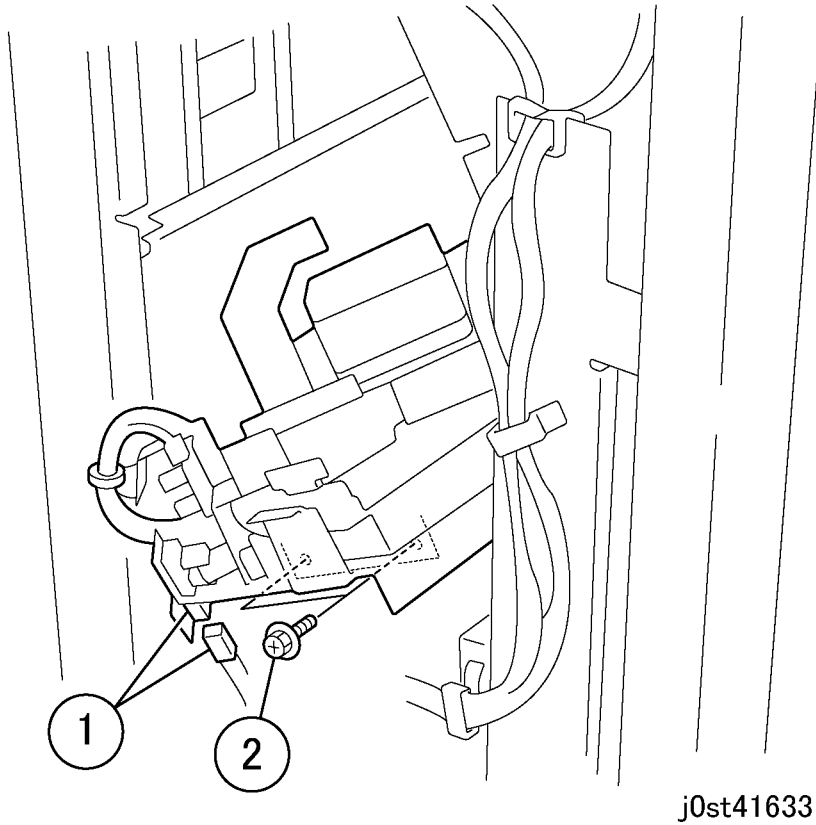


Figure 5 Removing the screws

7. Remove the Rail Assembly. (Figure 6)
 1. Remove the Rail Assembly.

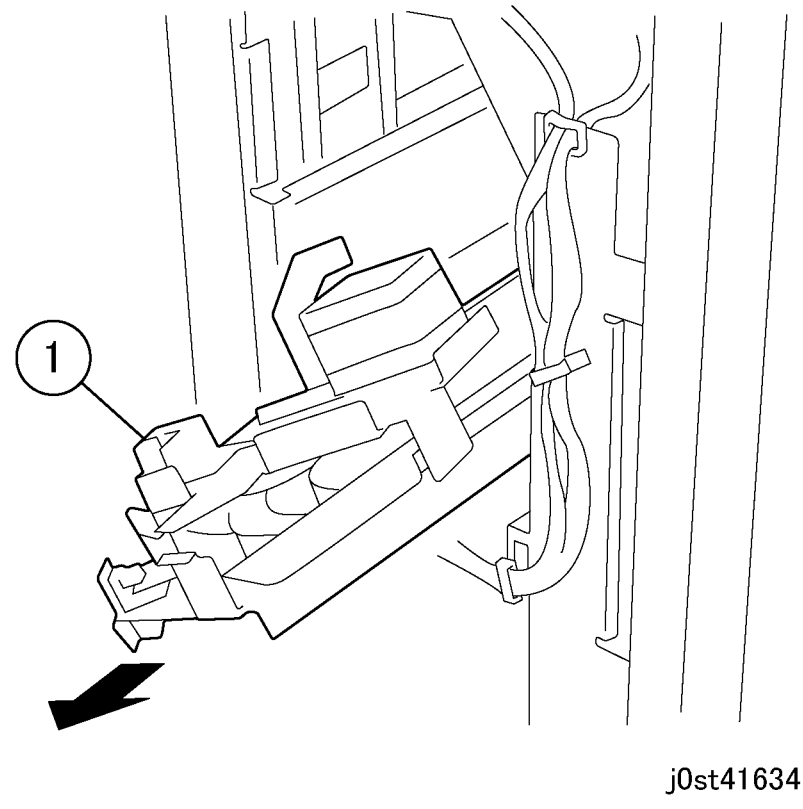
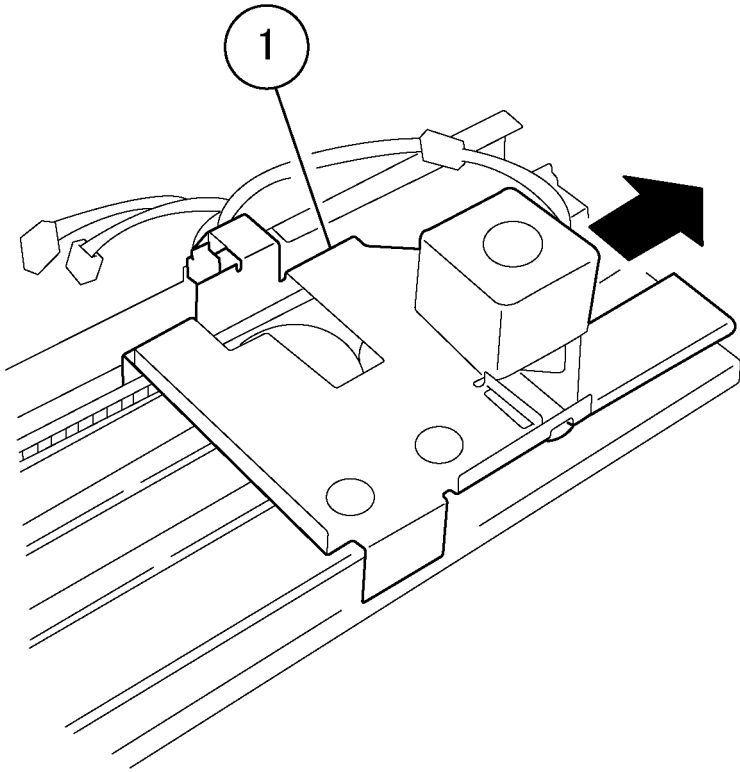


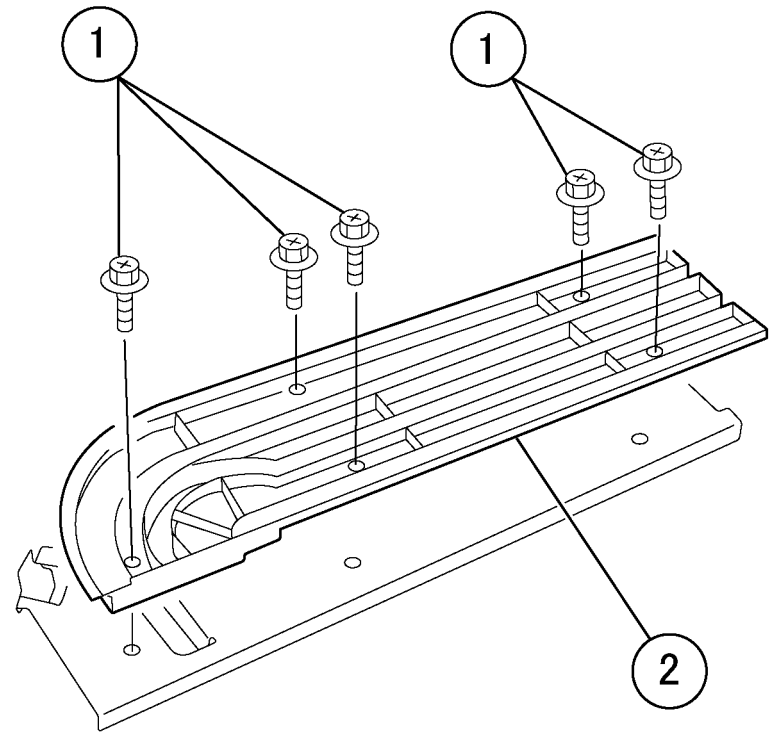
Figure 6 Removing the Rail Assembly

8. To remove the Carriage Assembly, move it in the direction of the arrow. (Figure 7)
 1. Remove the Carriage Assembly.



j0st41635

Figure 7 Removing the Carriage Assembly



j0st41636

Figure 8 Removing the Staple Unit Rail

9. Remove the rail. (Figure 8)
 1. Remove the screws (x5).
 2. Remove the Staple Unit Rail.

REP 16.8.2 Staple Assembly

Parts List on PL 17.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Front Cover Assembly. (REP 16.4.1)
2. Disconnect the connectors. (Figure 1)
 1. Disconnect the connectors (x2).

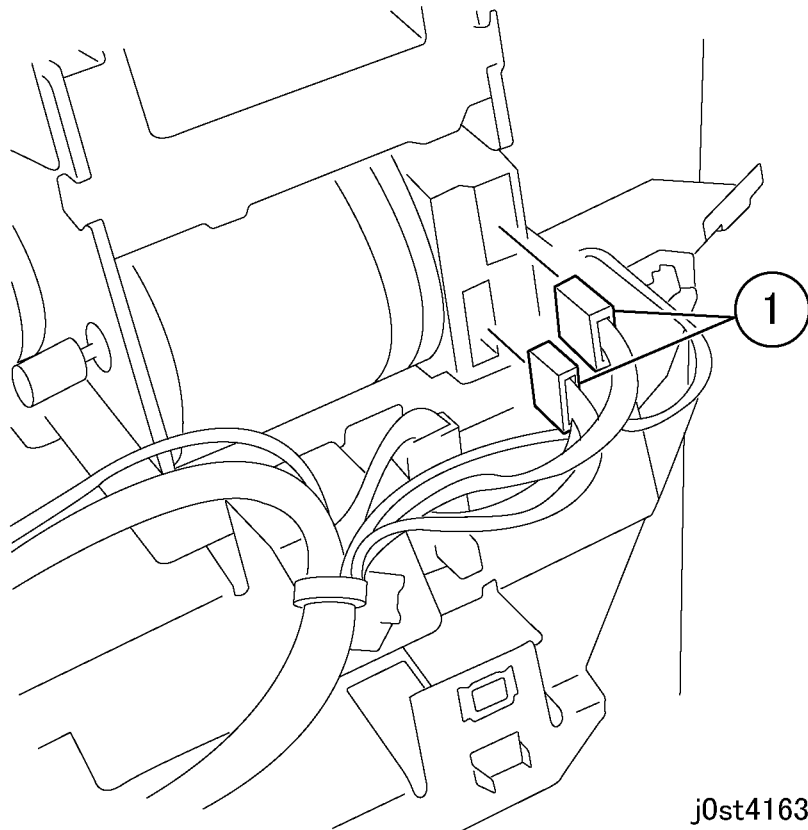


Figure 1 Disconnecting the connectors

1. Remove the screw.
2. Remove the screw to remove the Earth Wire.
3. Remove the Staple Assembly.

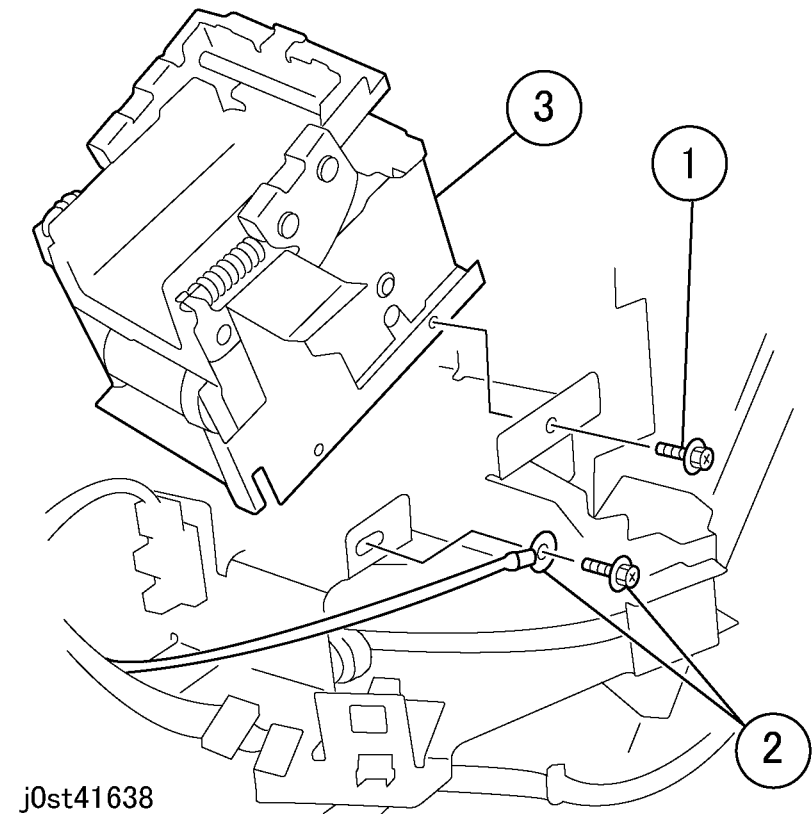


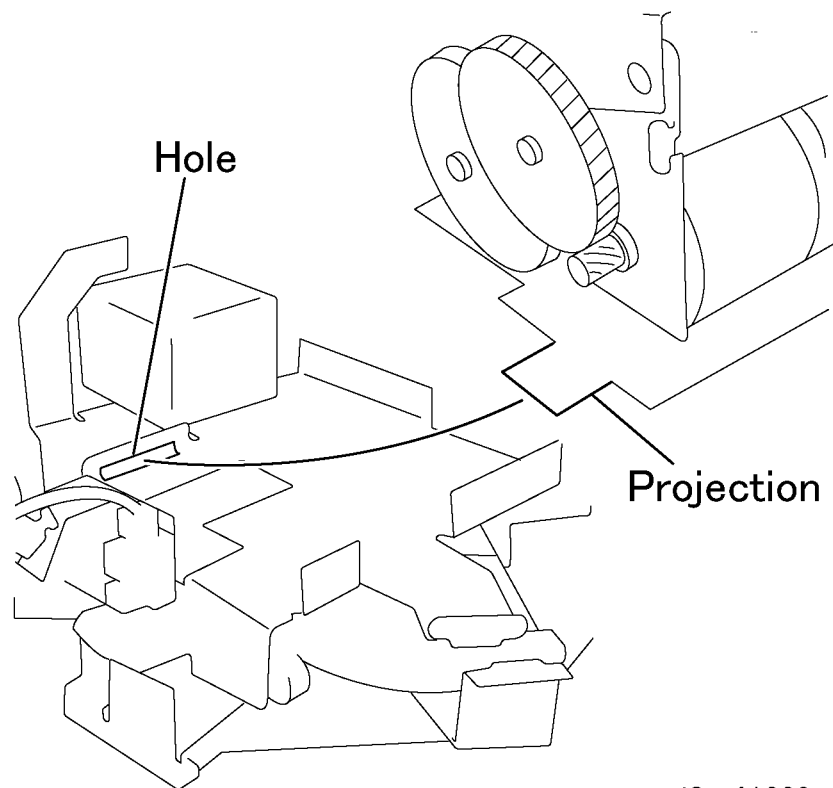
Figure 2 Removing the Staple Assembly

3. Remove the Staple Assembly. (Figure 2)

Replacement

1. To install, carry out the removal steps in reverse order taking note of the following:

NOTE: Ensure the tip of the Staple Assembly is inserted into the hole in the bracket. (Figure 3)



j0st41639

Figure 3 Installing the Staple Assembly

REP 16.9.1 Compiler Tray Assembly

Parts List on PL 17.9

Removal

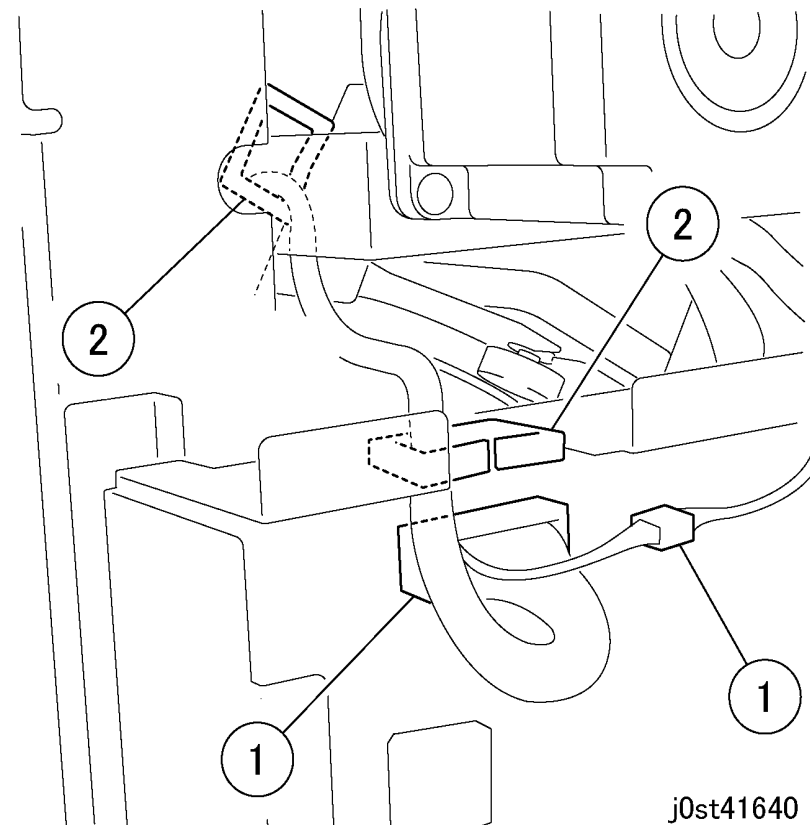
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Staple Assembly (REP 16.8.2).
2. Remove the Tray Guide (Perform REP 16.5.2 up to Step 5.)
3. Release the clamp to remove the wire. (Figure 1)
 1. Disconnect the connectors (x2).
 2. Release the Edge Saddles (x2) to remove the wire.



j0st41640

Figure 1 Disconnecting the connectors

4. Remove the screws. (Figure 2)
 1. Remove the screws (x2).

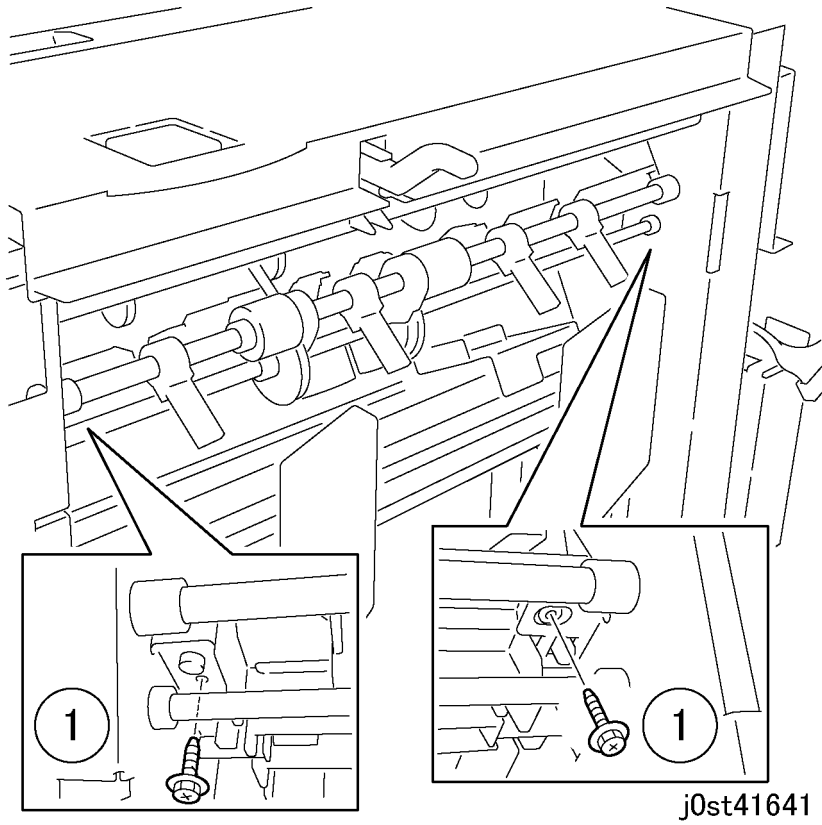


Figure 2 Removing the screws

5. Remove the Compiler Assembly (item 1) (Figure 3).

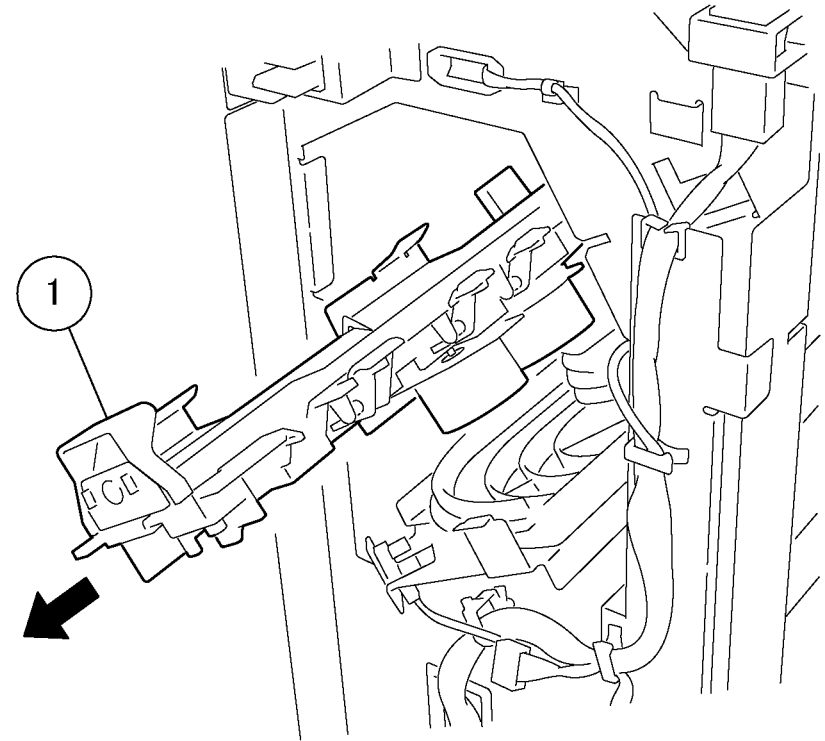


Figure 3 Removing the Compiler Assembly

REP 16.10.1 Stacker Motor Assembly

Parts List on PL 17.10

Removal

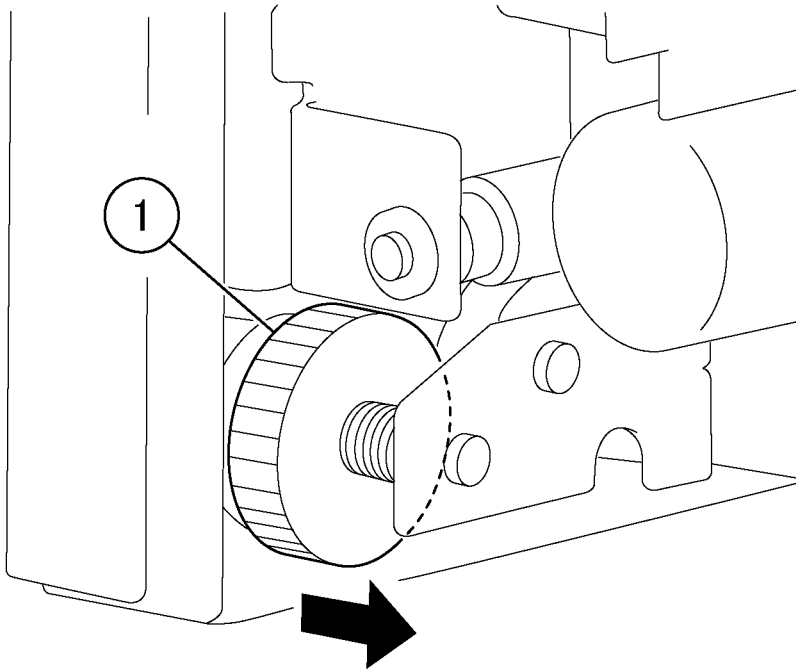
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Rear Cover. (REP 16.4.1)
2. Slide the gear to lower down the Stacker Tray. (Figure 1)
 1. Slide the gear to disengage the teeth of Cam.

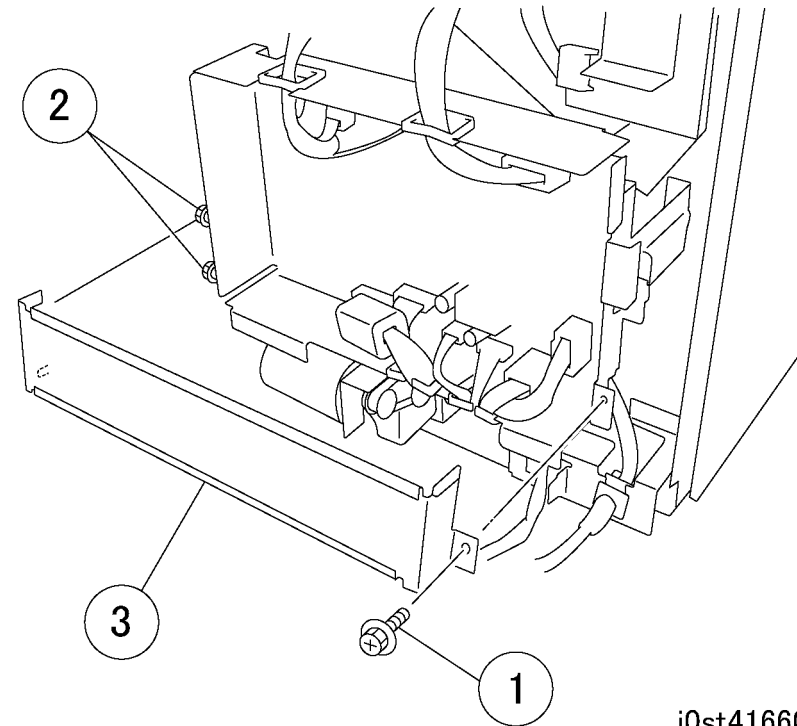


j0st41643

Figure 1 Moving the gear

3. Remove the bracket. (Figure 2)
 1. Remove the screw.

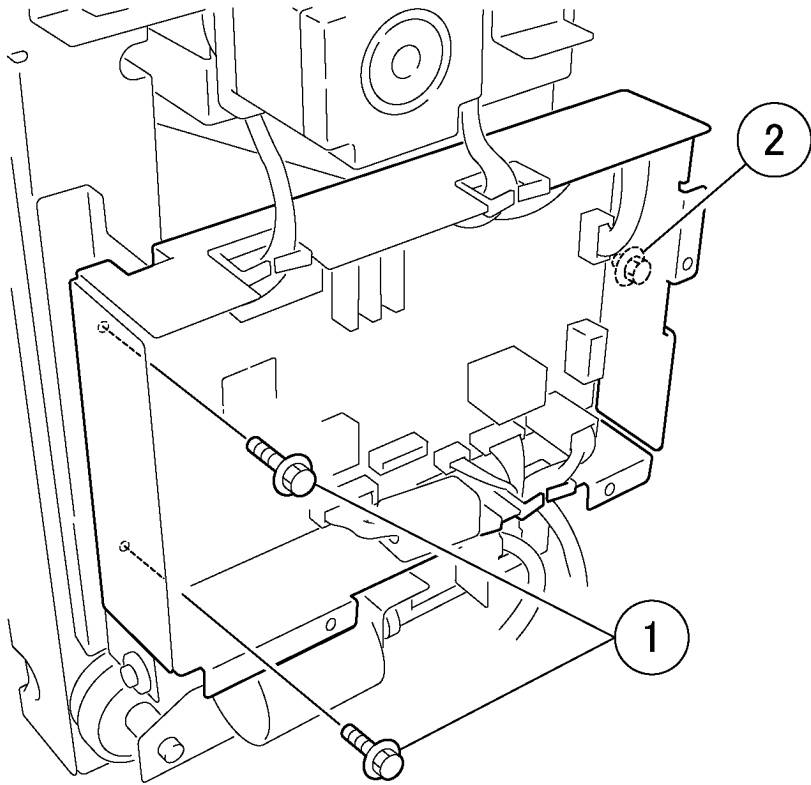
2. Loosen the screws (x2).
3. Remove the bracket.



j0st41660

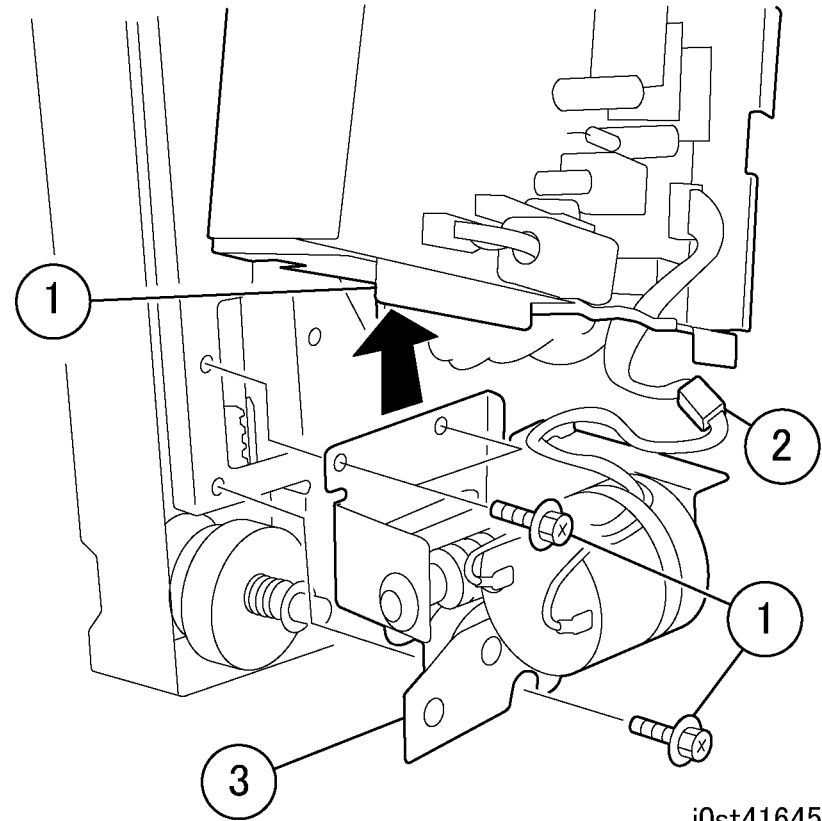
Figure 2 Removing the bracket

4. Remove the screws. (Figure 3)
 1. Remove the screws (x2).
 2. Loosen the screw.



j0st41644

Figure 3 Removing the screws



j0st41645

Figure 4 Removing the Staple Motor Assembly

5. Remove the Stacker Motor Assembly. (Figure 4)
 1. Remove the screws (x3) while sliding the PWB Bracket upwards.
 2. Slide the gear.
 3. Remove the Stacker Motor Assembly.

REP 16.10.2 Elevator Belt Assembly

Parts List on PL 17.10

Removal

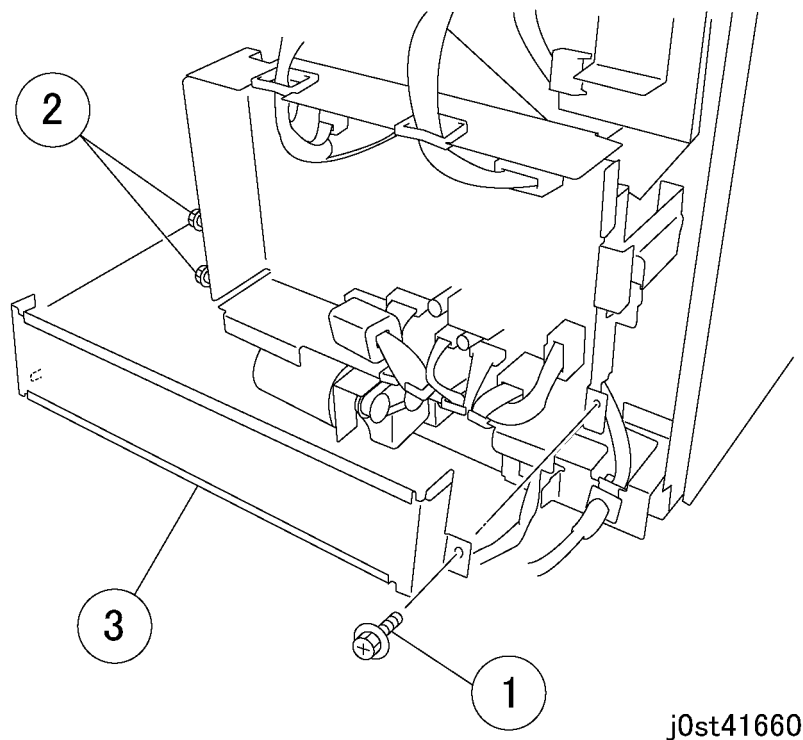
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

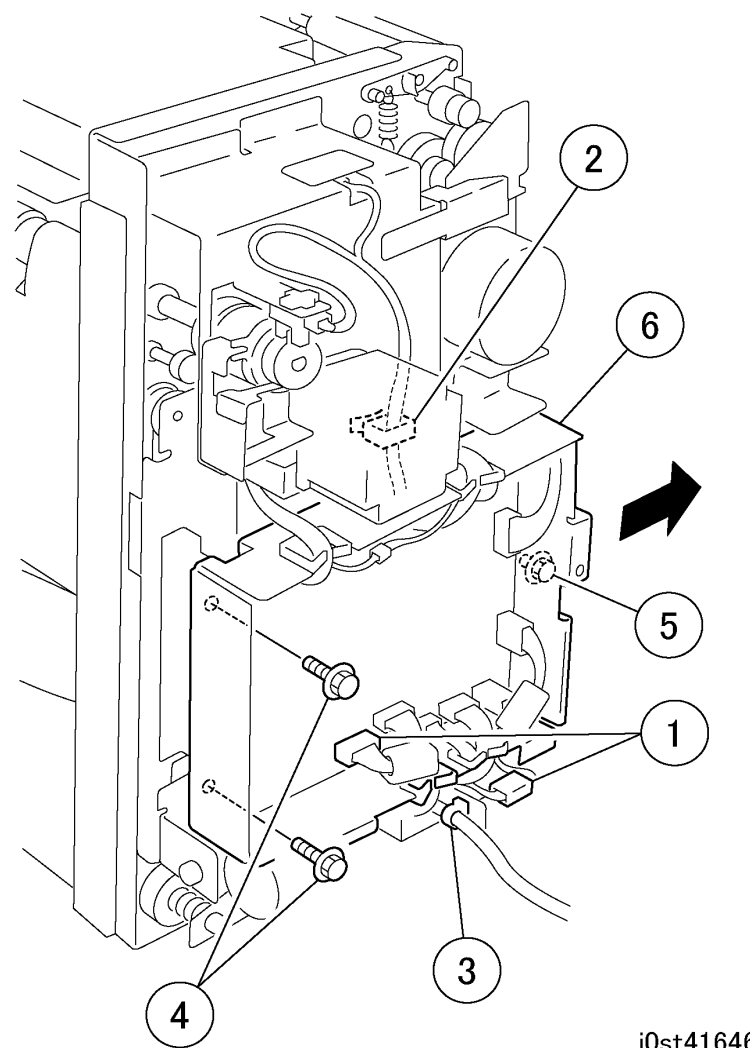
1. Remove the Tray Guide. (Perform REP 16.5.2 up to Step 5.)
2. Remove the bracket. (Figure 1)
 1. Remove the screw.
 2. Loosen the screws (x2).
 3. Remove the bracket.



j0st41660

Figure 1 Removing the bracket

3. Slide the PWB Bracket sideways. (Figure 2)
 1. Disconnect the connectors (x2).
 2. Release the clamps (x2) to remove the wire.
 3. Remove the clamp.
 4. Remove the screws (x2).
 5. Loosen the screw.
 6. Slide the PWB Bracket in the direction of the arrow.



j0st41646

Figure 2 Moving the PWB Bracket

4. Remove the Elevator Belt Assembly. (Figure 3)

1. Remove the screws (x3).
2. Remove the Elevator Belt Assembly.

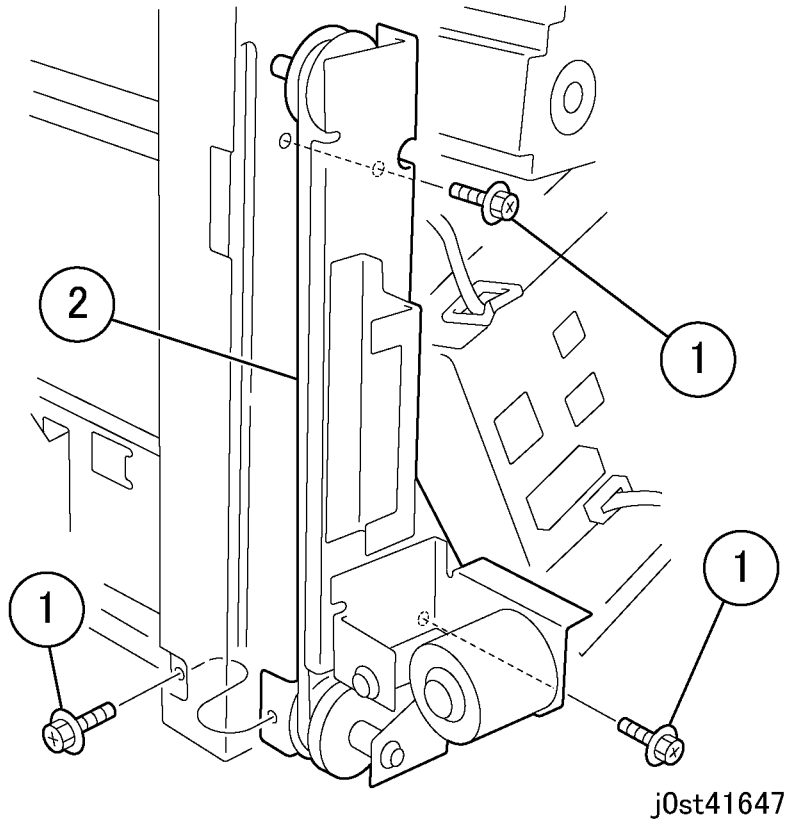


Figure 3 Removing the Elevator Belt Assembly

REP 16.11.1 Paddle Gear Shaft

Parts List on PL 17.11

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Rear Cover. (REP 16.4.1)
2. Remove the Cam Bracket Assembly. (Perform REP 16.7.1 up to Step 4.)
3. Remove the bearing. (Figure 1)
 1. Remove the E-Clip.
 2. Remove the gear.
 3. Remove the bearing.

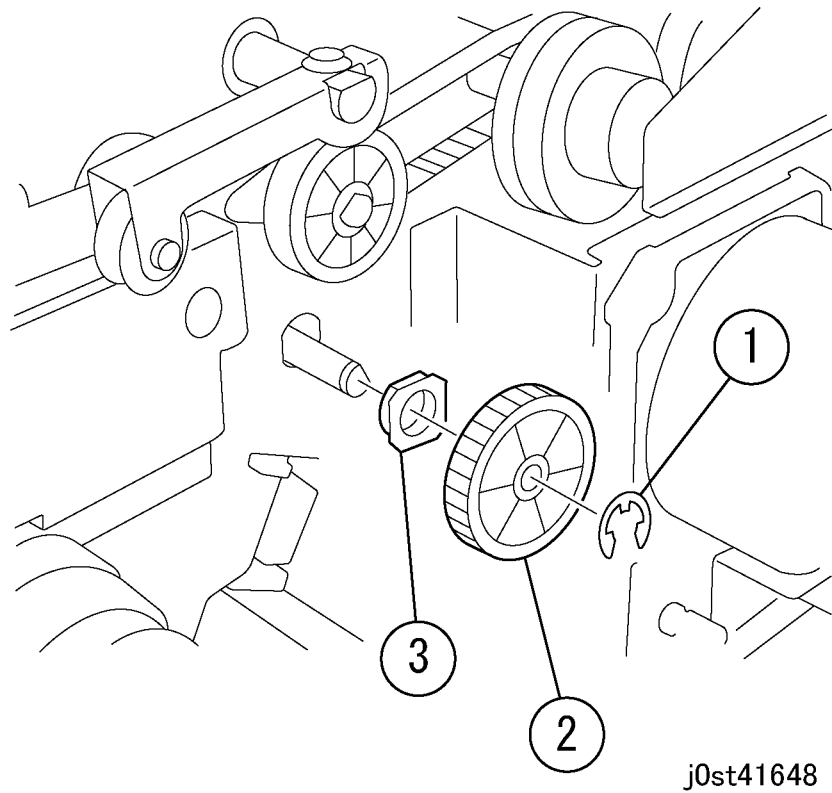


Figure 1 Removing the bearing

4. Remove the screw securing the Paddle Gear Shaft. (Figure 2)
1. Remove the screw.

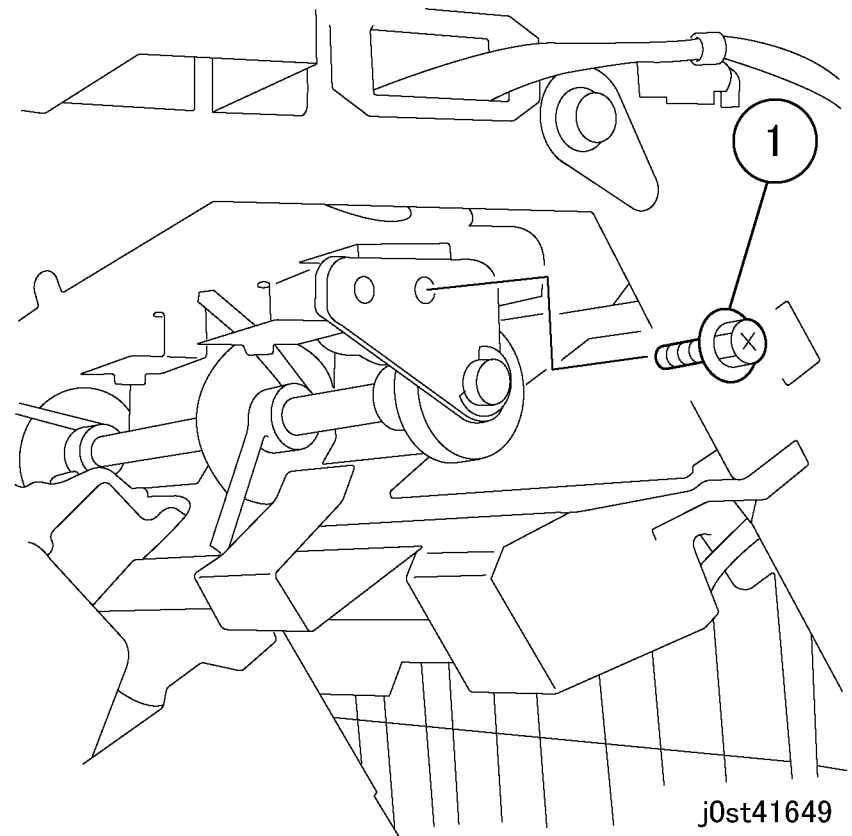


Figure 2 Removing the screw

5. Remove the Paddle Gear Shaft. (Figure 3)
1. Remove the Paddle Gear Shaft.

REP 16.12.1 Finisher PWB

Parts List on PL 17.12

Removal

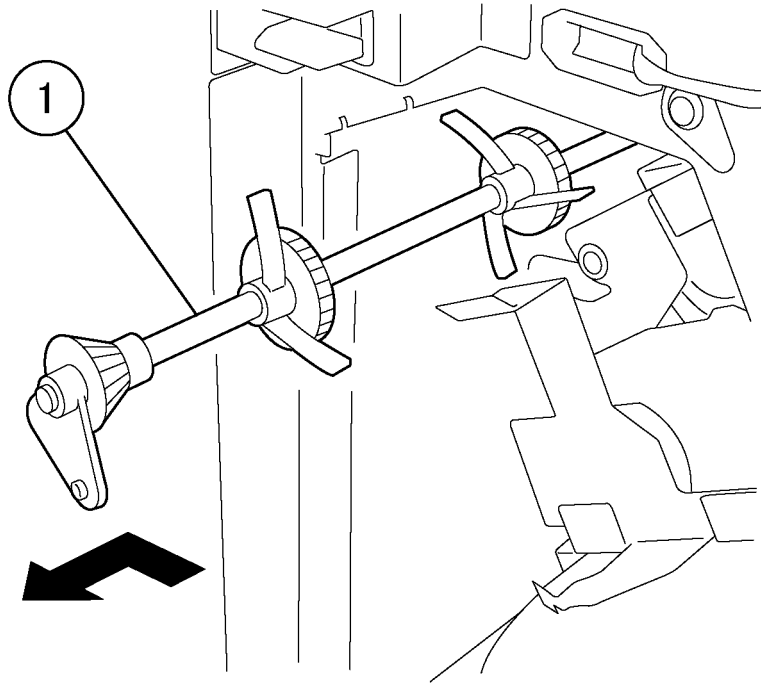
WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

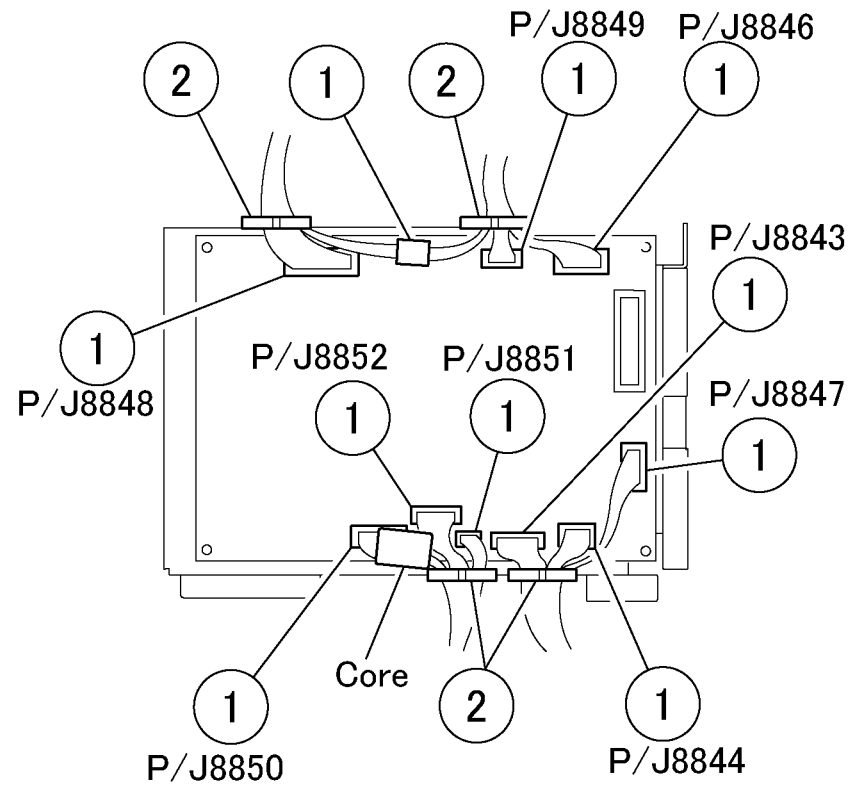
Check that "Ready to Copy" is displayed on the Control Panel display.

1. Remove the Rear Cover. (REP 16.4.1)
2. Disconnect the connectors. (Figure 1)
 1. Disconnect the connectors (x10).
 2. Release the Edge Saddles (x4) to remove the wire.



j0st41650

Figure 3 Removing the Paddle Gear Shaft



j0st41651

Figure 1 Disconnecting the connectors

3. Remove the Finisher PWB. (Figure 2)

1. Remove the screws (x5).
2. Remove the Finisher PWB.

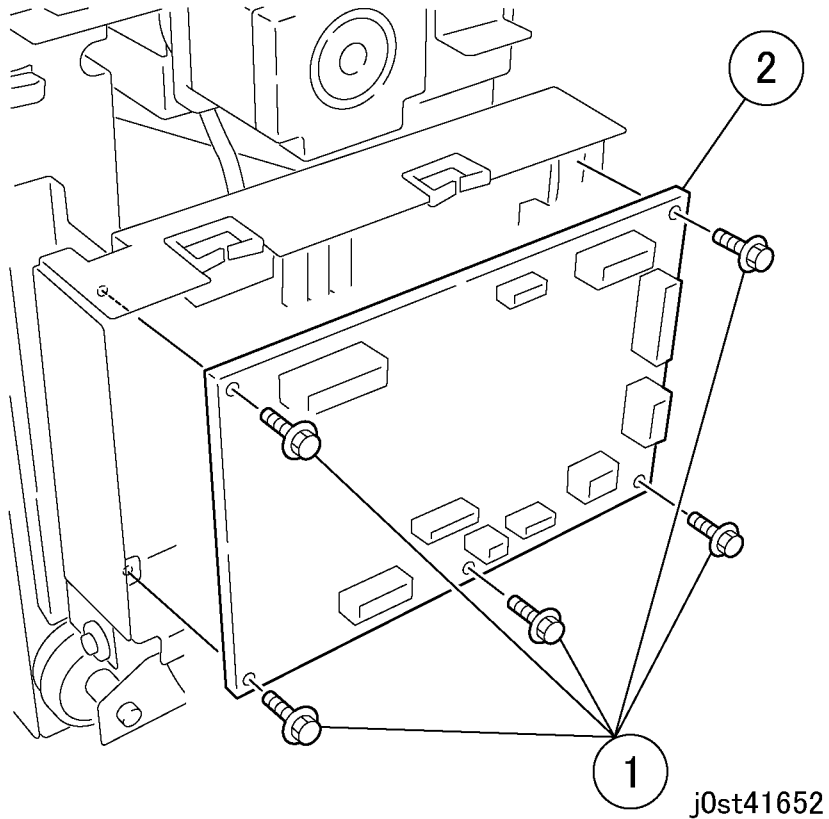


Figure 2 Removing the Finisher PWB

Replacement

1. To install, carry out the removal steps in reverse order taking note of the following:

NOTE: When installing, keep the core shown in Figure 2 inside the box.

REP 16.12.2 Finisher LVPS PWB

Parts List on PL 17.13

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

1. Switch off the power and disconnect the Power Cord.
2. Remove the Front Cover. (REP 16.4.1)
3. Open the Top Cover Assembly.
4. Remove the Rear Cover. (REP 16.4.2)
5. Remove the Stacker Tray. (Figure 1)
 1. Remove the screw (1).
 2. Remove the Stacker Tray.

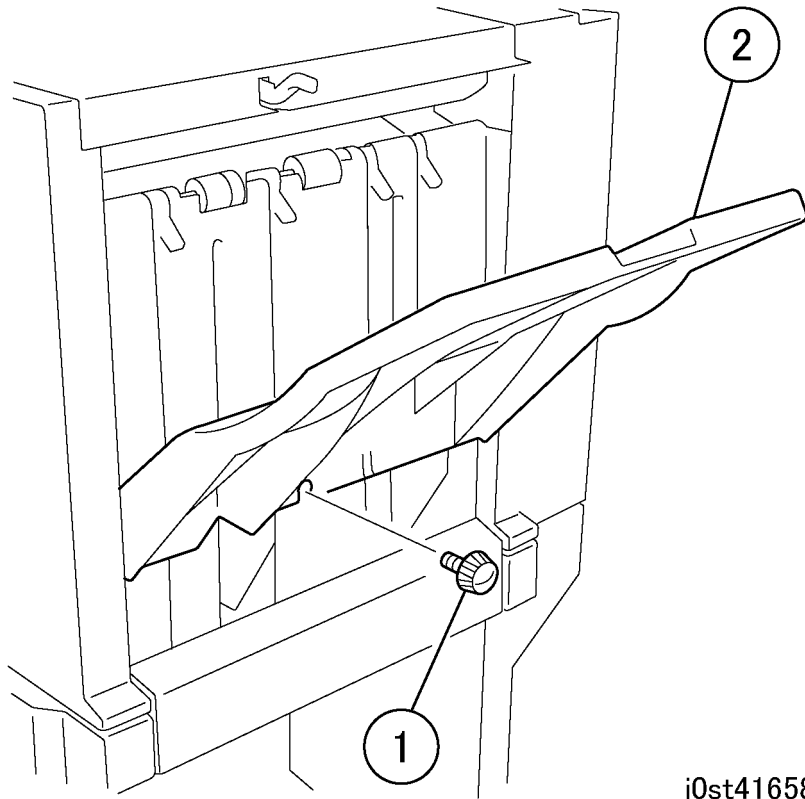


Figure 1 Removing the Stacker Tray

3. Remove the Stacker Bracket Cover. (Figure 2)

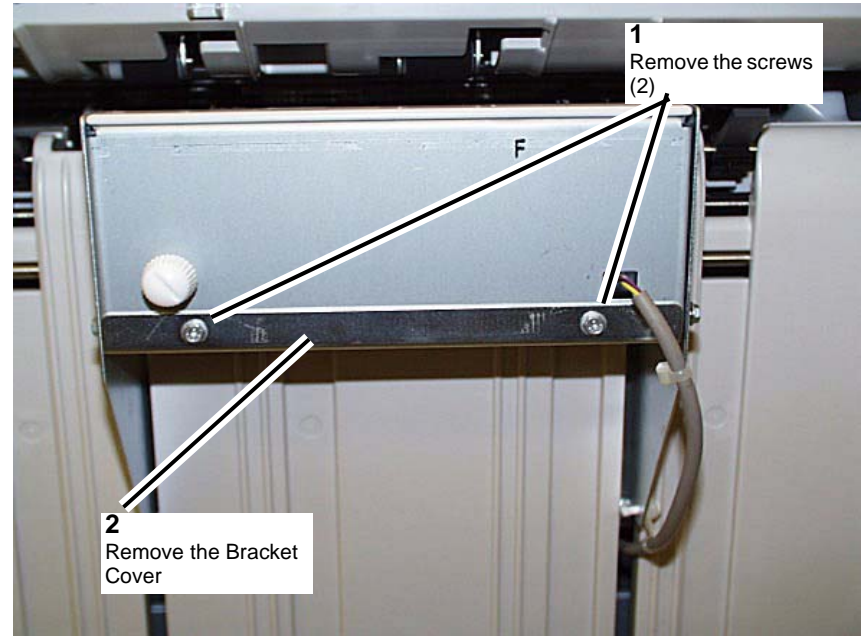
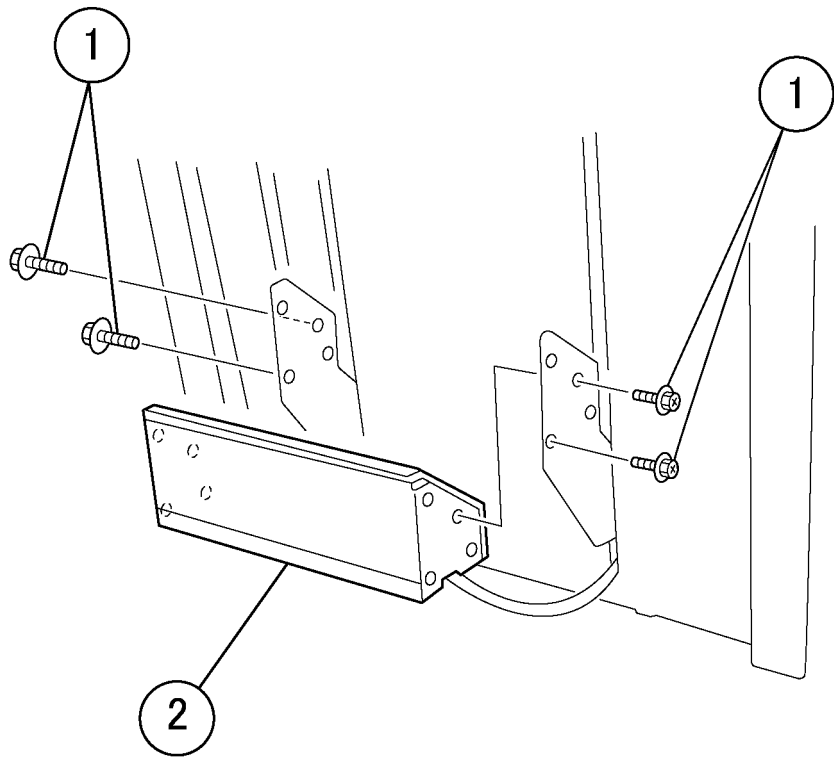


Figure 2 Removing the Stacker Bracket Cover

4. Remove the Stacker Bracket. (Figure 3)
 1. Remove the screws (4).
 2. Remove the Bracket.

j0st41658



j0st41614

Figure 3 Removing the Stacker Bracket

3. Disconnect the Connector. (Figure 4)

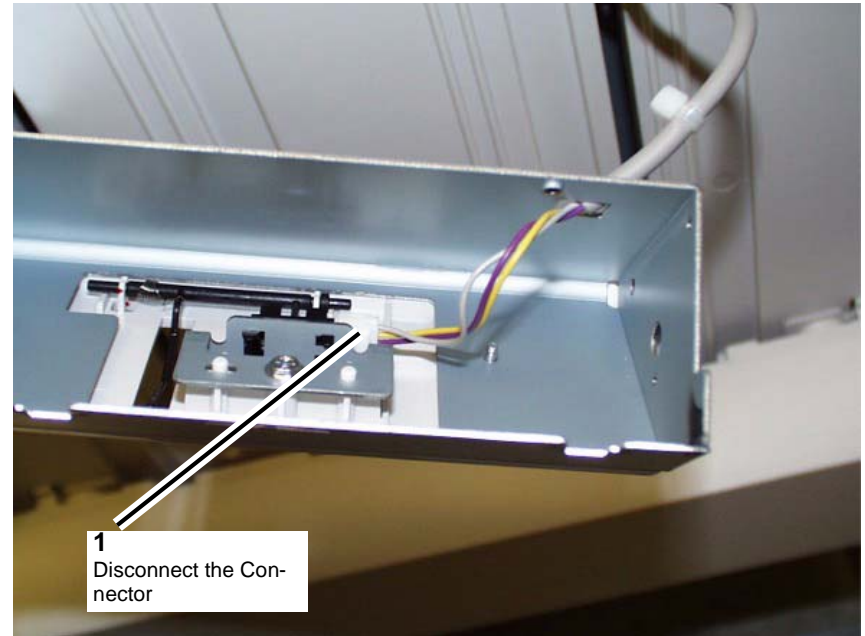
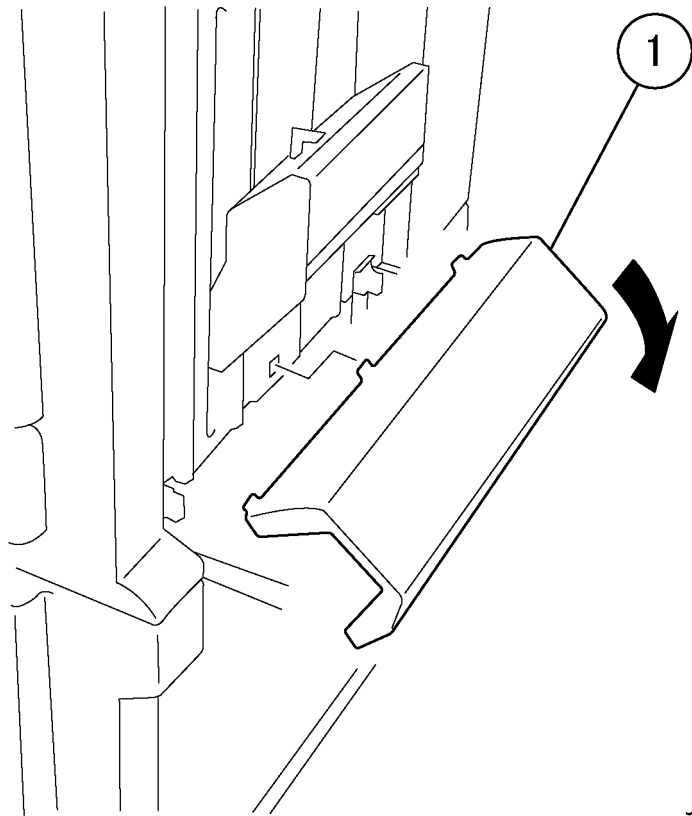


Figure 4 Disconnecting the connector

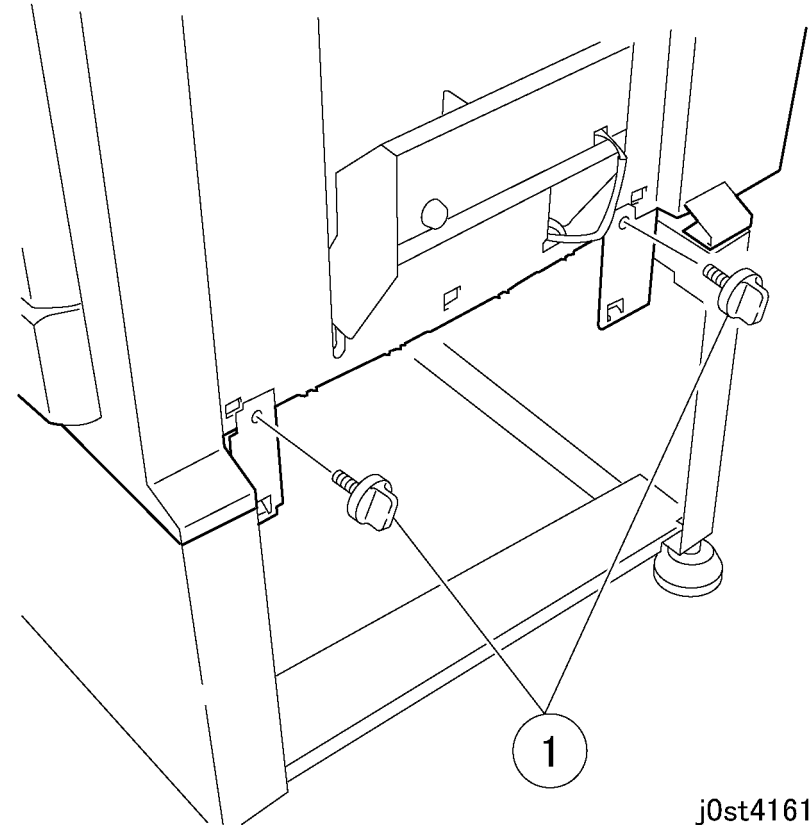
4. Remove the Right Cover. (Figure 5)
 1. Remove the Right Cover.



j0st41654

Figure 5 Removing the Right Cover

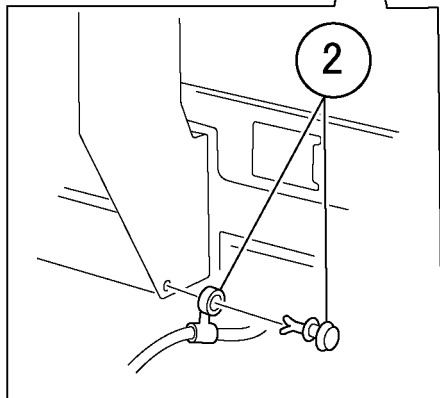
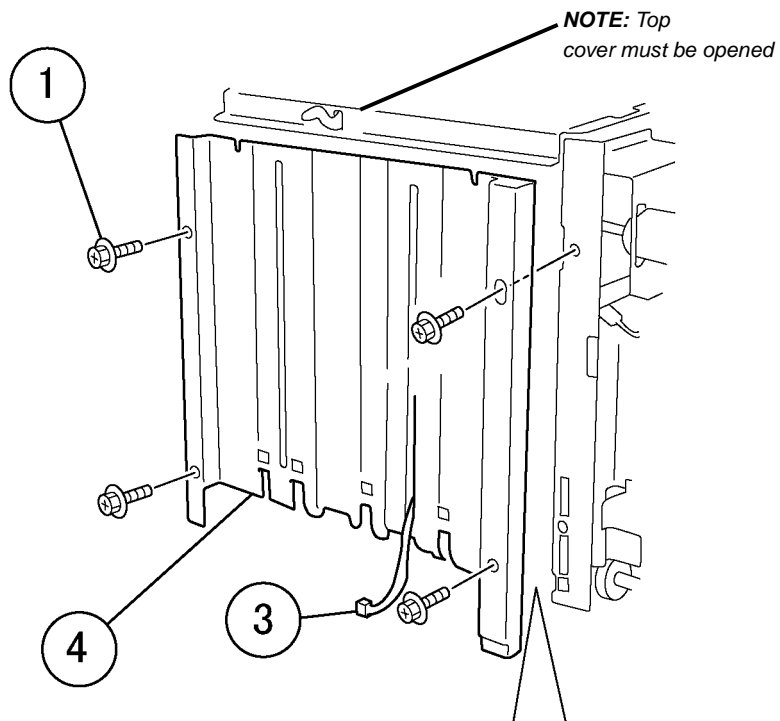
2. Remove the knob screws. (Figure 6)
1. Remove the knob screws (2)



j0st41616

Figure 6 Removing the knob screws (2)

2. Remove the Tray Guide. (Figure 7)
1. Remove the screws (4).
2. Remove the plastic rivet to remove the wire harness clamp.
3. Remove the wire harness from the Tray Guide opening.
4. Remove the Tray Guide.



j0st41617

Figure 7 Removing the Tray Guide

- Remove the screws (3) from Low Voltage Power Supply housing cover. (Figure 8)

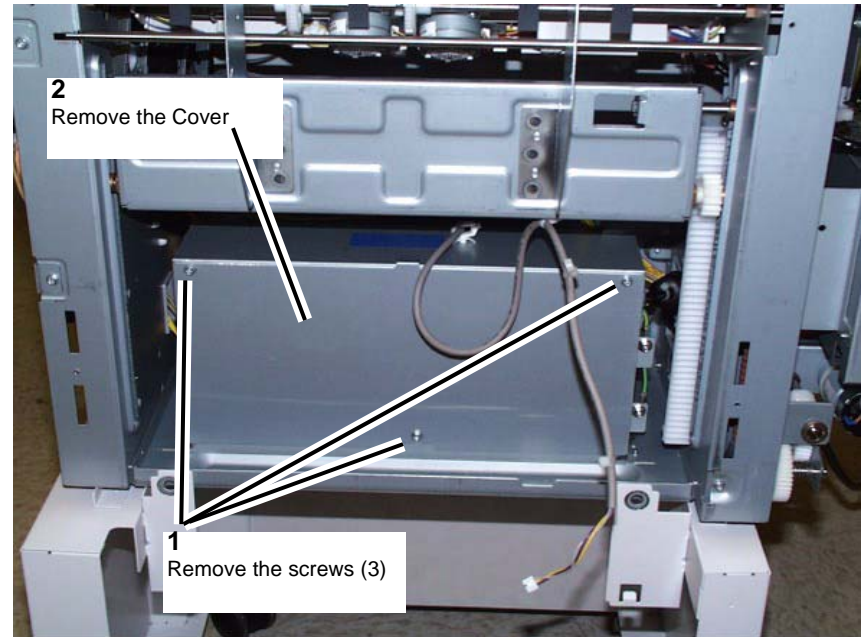


Figure 8 Removing the LVPS housing cover

- Disconnect the connectors (3) from the Power Supply. (Figure 9)

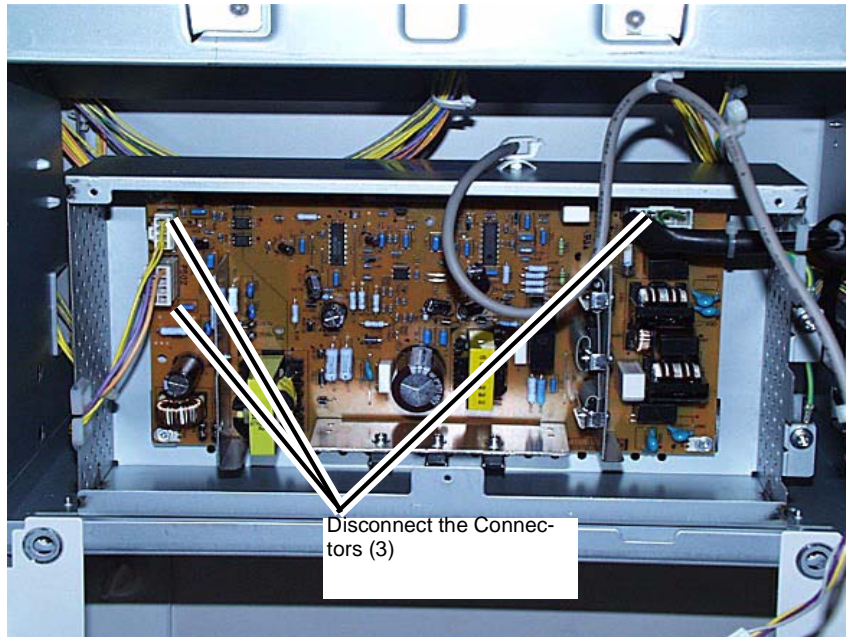


Figure 9 Disconnecting the Connectors (3)

7. Remove the screws (4). (Figure 10)

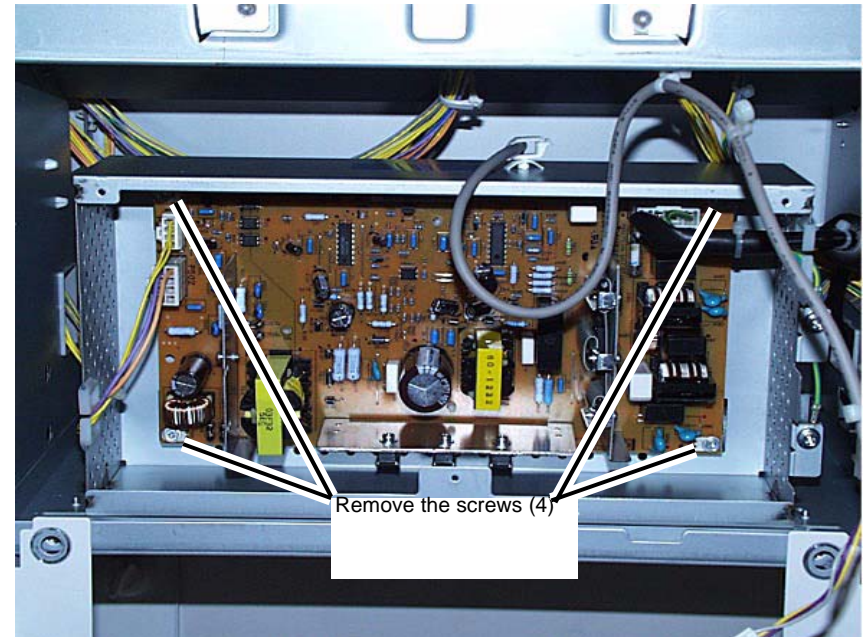


Figure 10 removing the screws (4)

8. Pinch together the legs of the plastic PWB StandOffs to release the locking tabs (2). (Figure 11, Figure 12)

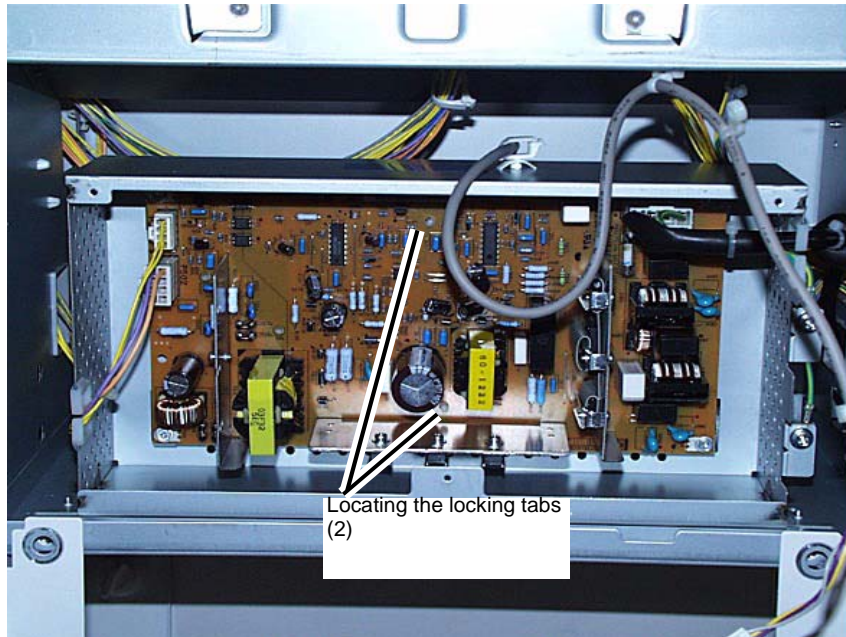


Figure 11 Locating the locking tabs

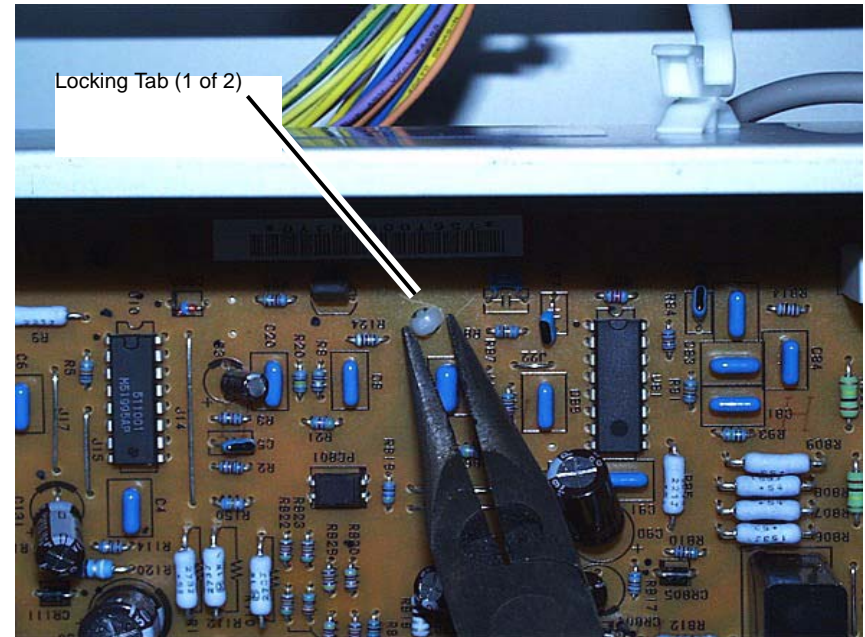


Figure 12 Releasing the locking tabs (2)

9. Remove the Low Voltage Power Supply PWB.

Replacement

1. When installing the Tray Guide, be sure to insert the lower tabs (2) into the Finisher frame.

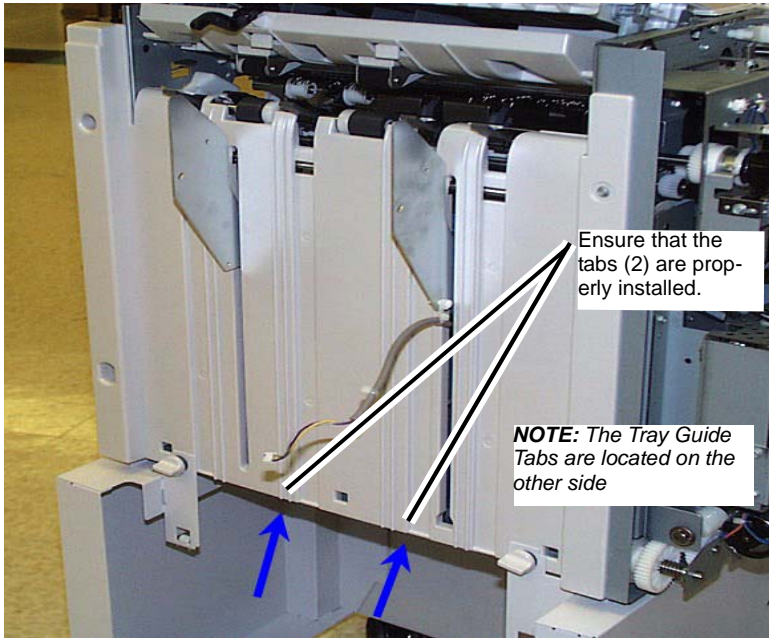


Figure 13 Installing the Tray Guide

REP 22.1 A-Finisher

Parts List on PL22.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Disconnect the A-Finisher Wire Harness. (Figure 1)
 - (1) Remove Clamp.
 - (2) Disconnect Connectors (2).

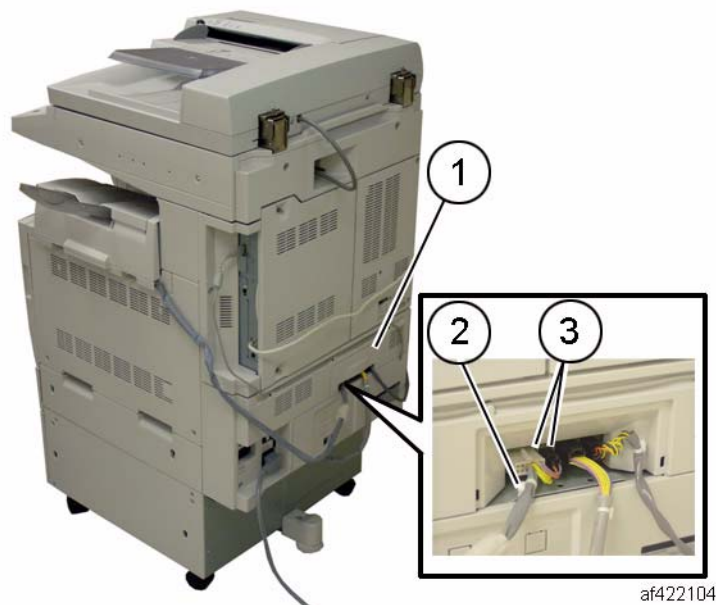


Figure 1 Disconnecting the Connectors (af422104)

2. Loosen the Thumb Screws. (2) (Figure 2)

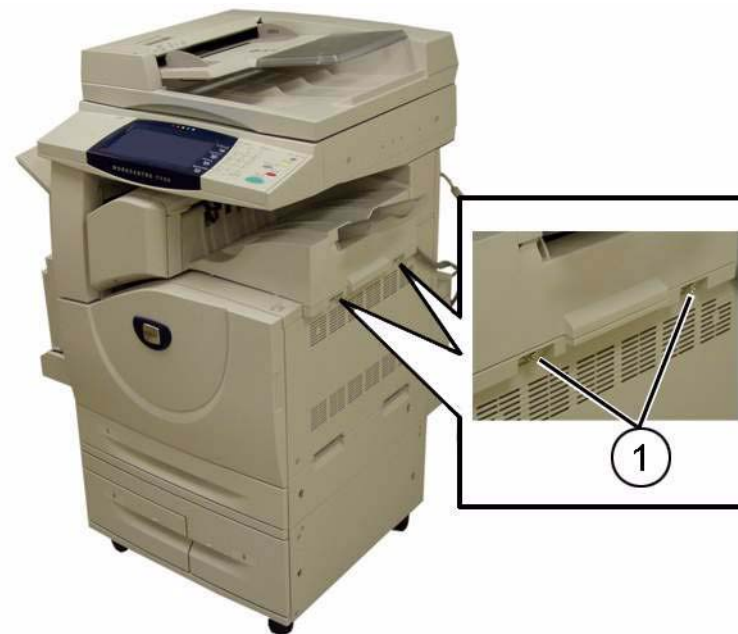


Figure 2 Loosen the Thumb Screws (af422105)

3. Remove the A-Finisher. (Figure 3)



Figure 3 Remove the A-Finisher (af422106)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.3.1 Paddle Belt

Parts List on PL 22.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine. (REP 22.1)
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the front Pulley. (Figure 1)
 - (1) Remove E-Clip.
 - (2) Remove Flange.
 - (3) Remove Belt from Pulley.
 - (4) Remove Pulley.

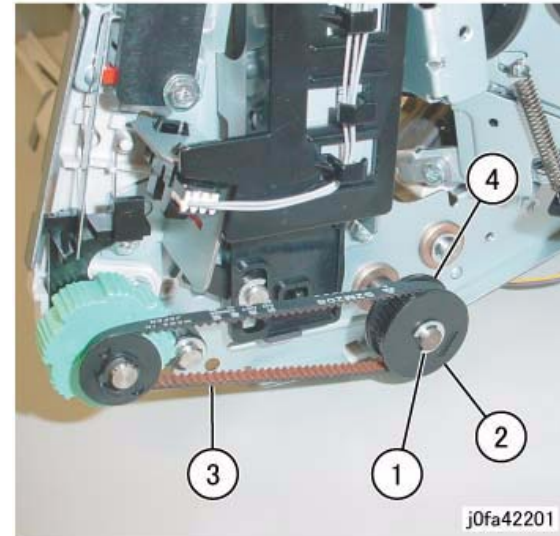


Figure 1 Removing the Pulley (j0fa42201)

4. Remove the front Bearing. (Figure 2)
(1)Remove Bearing.

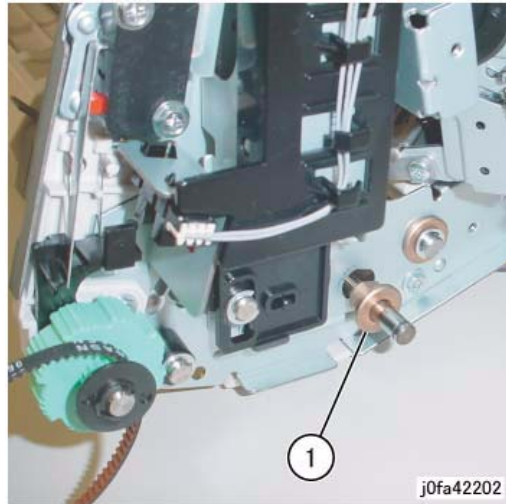


Figure 2 Removing the Bearing (j0fa42202)

5. Remove the rear Gear. (Figure 3)
(1)Remove E-Clip.
(2)Remove Gear.

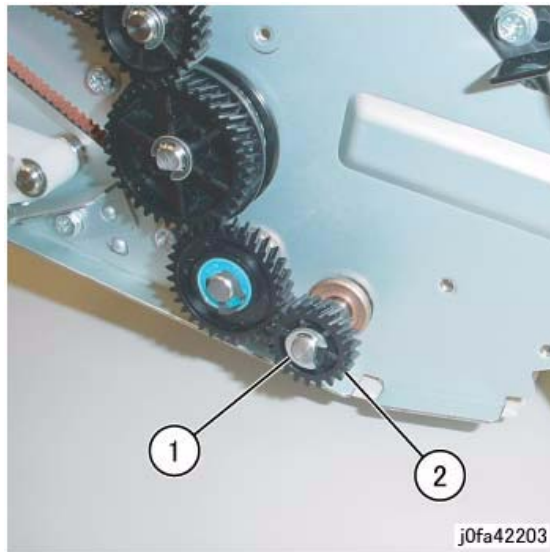


Figure 3 Removing the Gear (j0fa42203)

6. Remove the rear Bearing. (Figure 4)
(1)Remove Bearing.

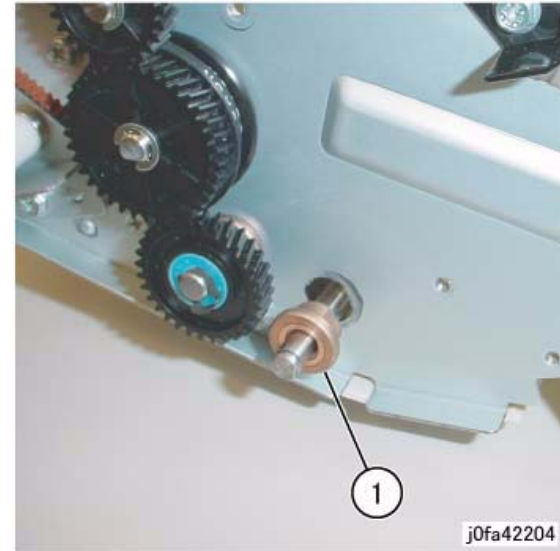


Figure 4 Removing the Bearing (j0fa42204)

7. Remove the Paddle Link Assembly. (Figure 5)
(1)Remove Paddle Link Assembly.

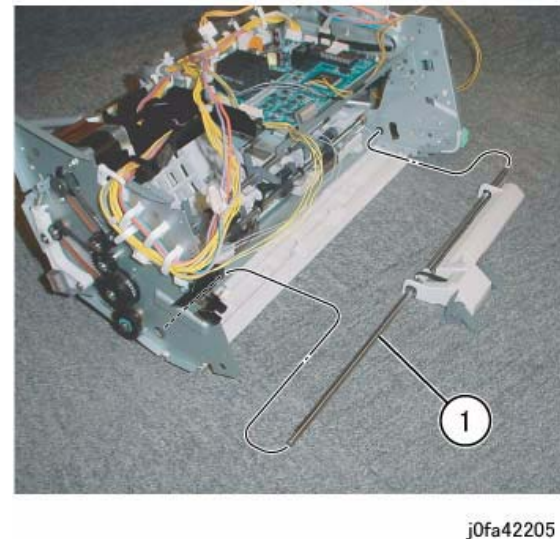


Figure 5 Removing the Paddle Link Assembly (j0fa42205)

8. Remove the Bearing. (Figure 6)

- (1) Remove E-Clip.
- (2) Remove Bearing.

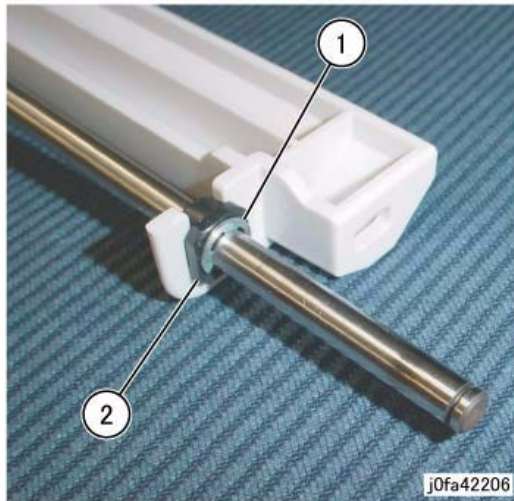


Figure 6 Removing Bearing (0fa42206)

9. Remove the Shaft Assembly. (Figure 7)

- (1) Remove Paddle Belt from Pulley.
- (2) Remove Shaft Assembly in the direction of the arrow.

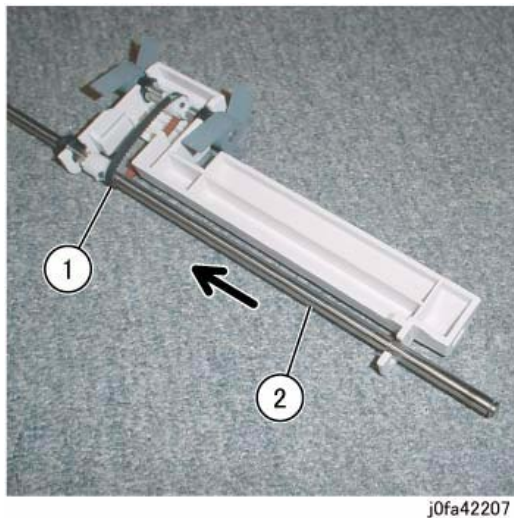


Figure 7 Removing Shaft Assembly (j0fa42207)

10. Remove the Paddle Belt. (Figure 8)

- (1) Remove E-Clips (2).
- (2) Move Bearings (2) in the direction of the arrow.
- (3) Remove Sub Paddle Shaft Assembly.
- (4) Remove Paddle Belt.

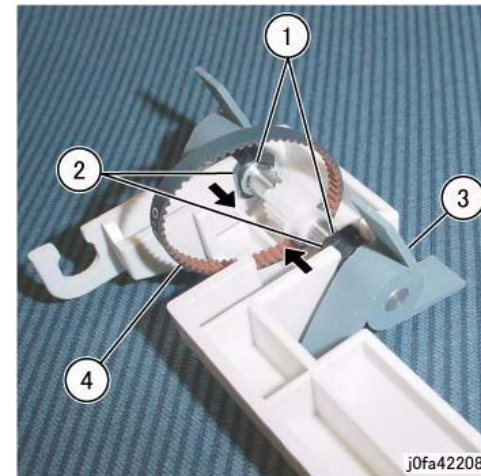


Figure 8 Removing the Paddle Belt (j0fa42208)

Replacement

- 1. Reverse the removal procedure for replacement.
- 2. Install the Paddle Link Assembly as shown in the figure. (Figure 9)

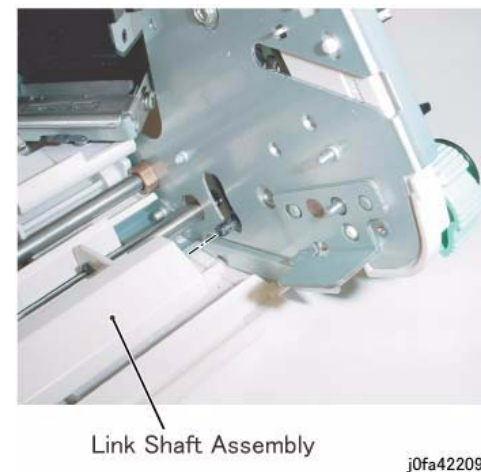


Figure 9 Installing the Paddle Link Assembly (j0fa42209)

REP 22.3.2 Sub Paddle Solenoid

Parts List on PL 22.3

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Turn over the A-Finisher.
4. Remove the Bottom Cover. (PL 22.2)
5. Disconnect the Connector. (Figure 1)
(1)Release Clamps (3) and remove the wire.
(2)Disconnect Connector.

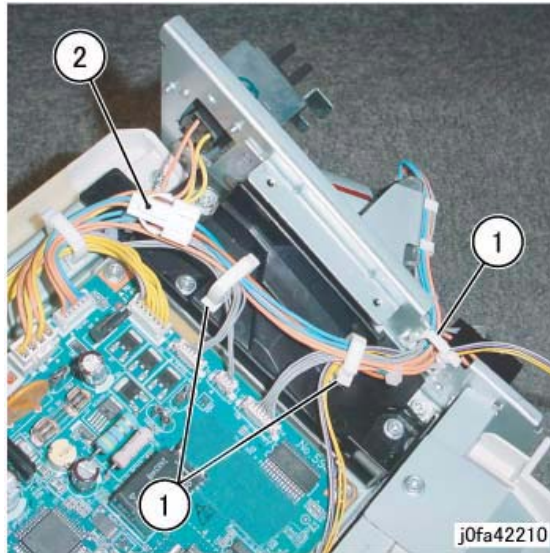


Figure 1 Disconnecting the Connector (j0fa42210)

6. Turn over the A-Finisher.
7. Remove the Sub Paddle Solenoid Assembly. (Figure 2)

- (1)Disconnect Connector.
- (2)Release Wire from Hook.
- (3)Remove Screws (2).
- (4)Remove Sub Paddle Solenoid Assembly.

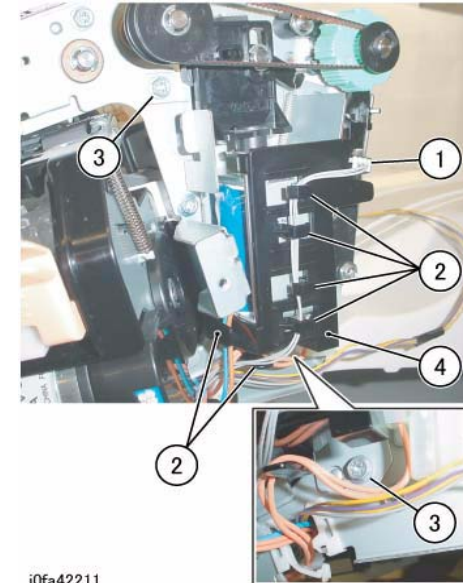


Figure 2 Removing the Sub Paddle Solenoid Assembly (j0fa42211)

8. Remove the Support. (Figure 3)
(1)Remove Screw.
(2)Remove Support.

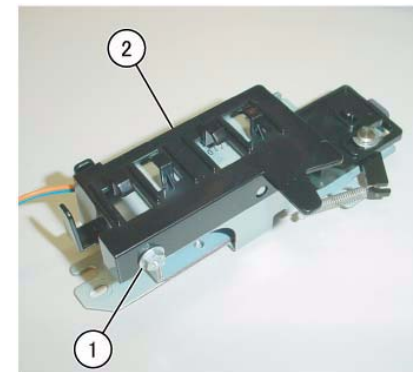
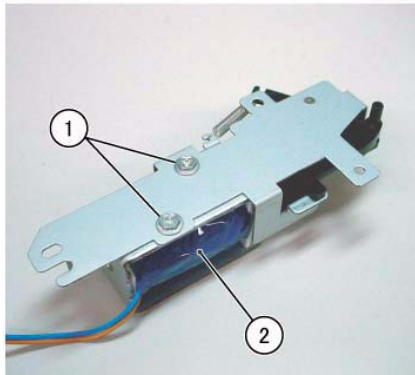


Figure 3 Removing the Support (j0fa42212)

9. Remove the Sub Paddle Solenoid. (Figure 4)
 - (1)Remove Screws (2).
 - (2)Remove the Sub Paddle Solenoid.

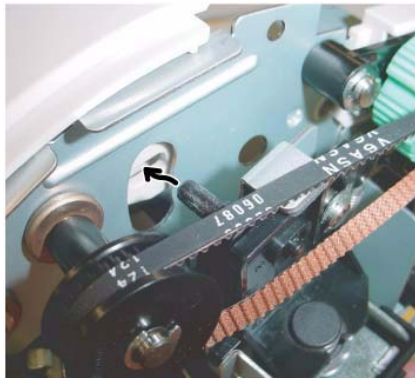


j0fa42213

Figure 4 Removing the Sub Paddle Solenoid (j0fa42213)

Replacement

1. Reverse the removal procedure for replacement.
2. Install the Sub Paddle Assembly as shown in the figure. (Figure 5)



j0fa42214

Figure 5 Installing the Sub Paddle Assembly (j0fa42214)

REP 22.4.1 Exit Roll Assembly

Parts List on PL 22.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

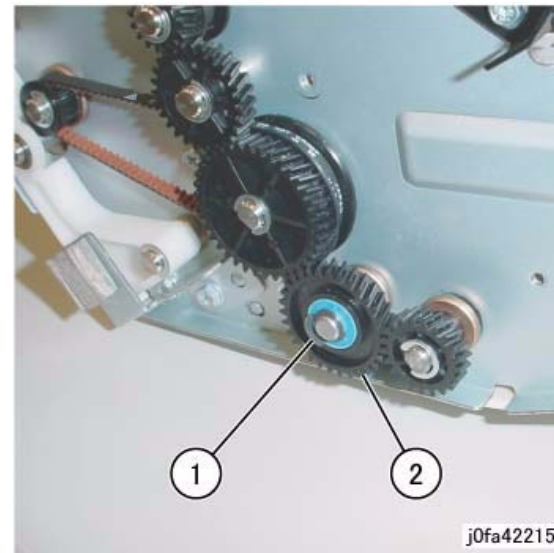
Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Pinch Roll. (REP 22.5.1)
4. Remove the Gear. (Figure 1)
 - (1)Remove KL-Clip.
 - (2)Remove Gear.



j0fa42215

Figure 1 Removing the Gear (j0fa42215)

5. Remove the front Bearing. (Figure 2)
 - (1)Remove E-Clip.
 - (2)Remove Bearing.

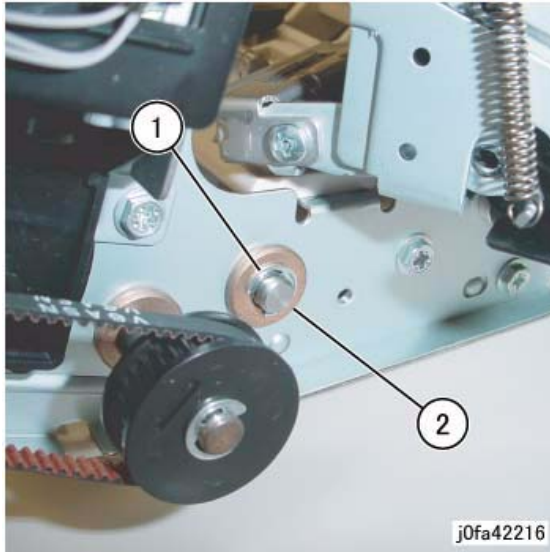


Figure 2 Removing the Bearing (j0fa42216)

6. Remove the rear Bearing. (Figure 3)
(1)Remove E-Clip.
(2)Remove Bearing.

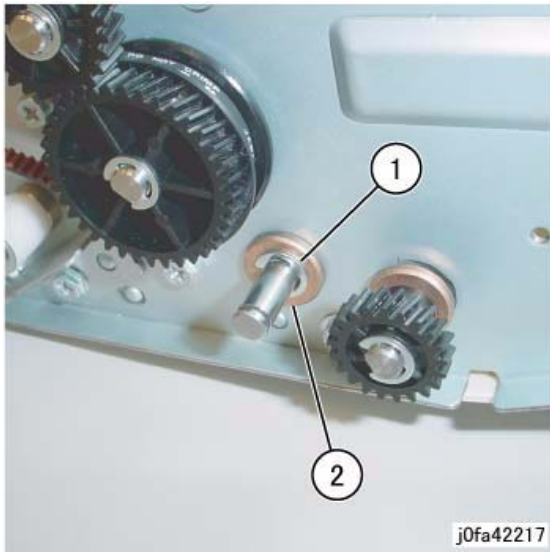


Figure 3 Removing the Bearing (j0fa42217)

7. Remove the Exit Roll Assembly. (Figure 4)
(1)Remove Exit Roll Assembly.

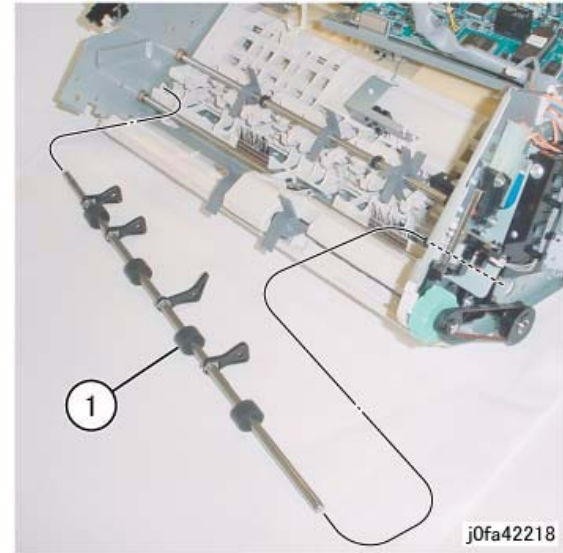


Figure 4 Removing the Exit Roll Assembly (j0fa42218)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.4.2 Staple Assembly

Parts List on PL 22.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Staple Assembly. (Figure 1)

- (1)Remove Clamps (2).
- (2)Disconnect Connectors (2).
- (3)Remove Screws (2).
- (4)Remove Staple Assembly.

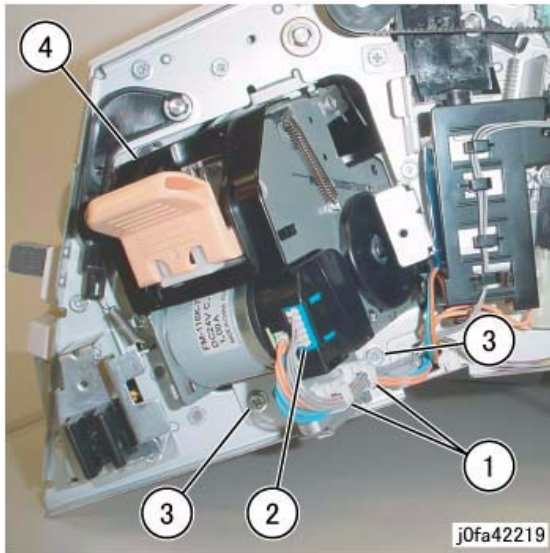


Figure 1 Removing the Staple Assembly (j0fa42219)

4. Remove the Bracket from the Staple Assembly. (Figure 2)
 - (1)Remove Screws (2).

- (2)Remove Bracket.

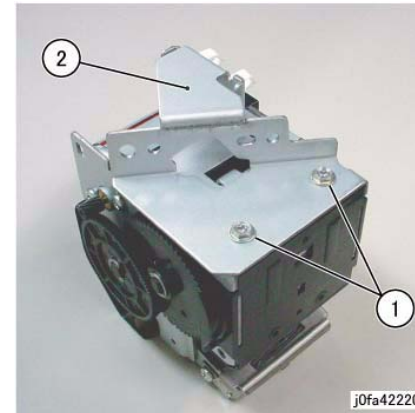


Figure 2 Removing the Bracket (j0fa42220)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.4.3 Set Clamp Home Sensor

Parts List on PL 22.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Rear Cover. (PL 22.1)
3. Disconnect the Connector. (Figure 1)
 - (1)Release Clamp and remove the wire.
 - (2)Disconnect Connector.

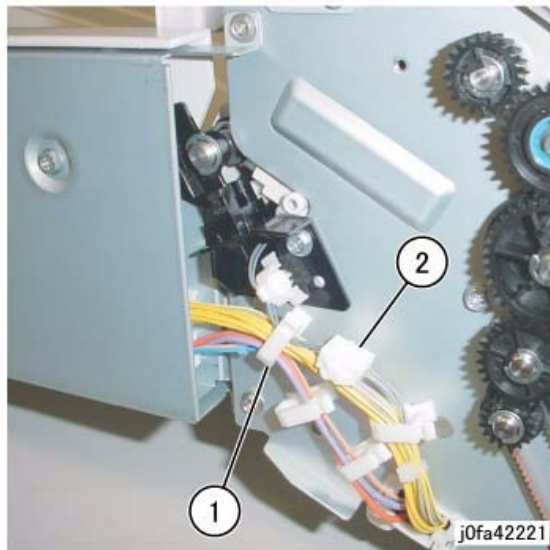


Figure 1 Disconnecting Connector (j0fa42221)

4. Remove the Set Clamp Home Sensor Assembly. (Figure 2)
 - (1)Remove Screw.
 - (2)Remove Set Clamp Home Sensor Assembly.

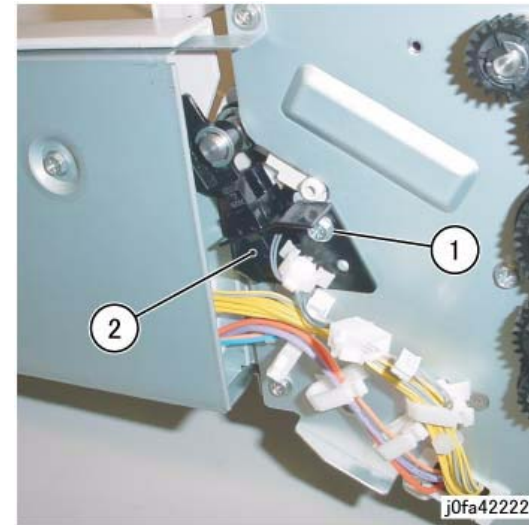


Figure 2 Removing the Set Clamp Home Sensor Assembly (j0fa42222)

5. Remove the Set Clamp Home Sensor. (Figure 3)
 - (1)Remove Set Clamp Home Sensor from Bracket.
 - (2)Disconnect Connector.

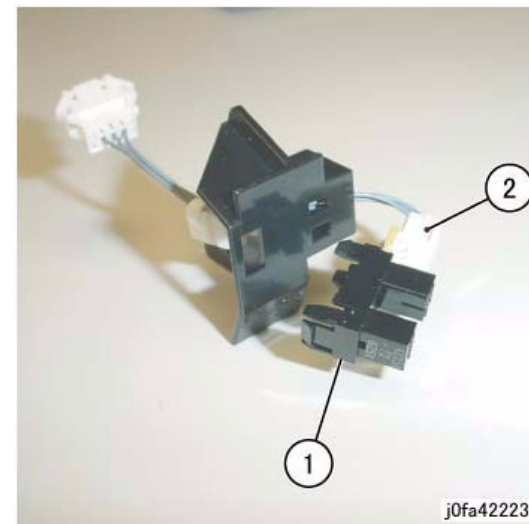


Figure 3 Removing the Set Clamp Home Sensor (j0fa42223)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.4.4 Exit Roll Assembly

Parts List on PL 22.4

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Remove the Left Cover. (PL 22.2)
5. Remove the Upper Frame Section. (Figure 1)
 - (1)Remove Screw and Bracket.
 - (2)Remove Screws (2).
 - (3)Remove Screw and Bracket.
 - (4)Remove Screws (2).
 - (5)Remove the Upper Frame Section

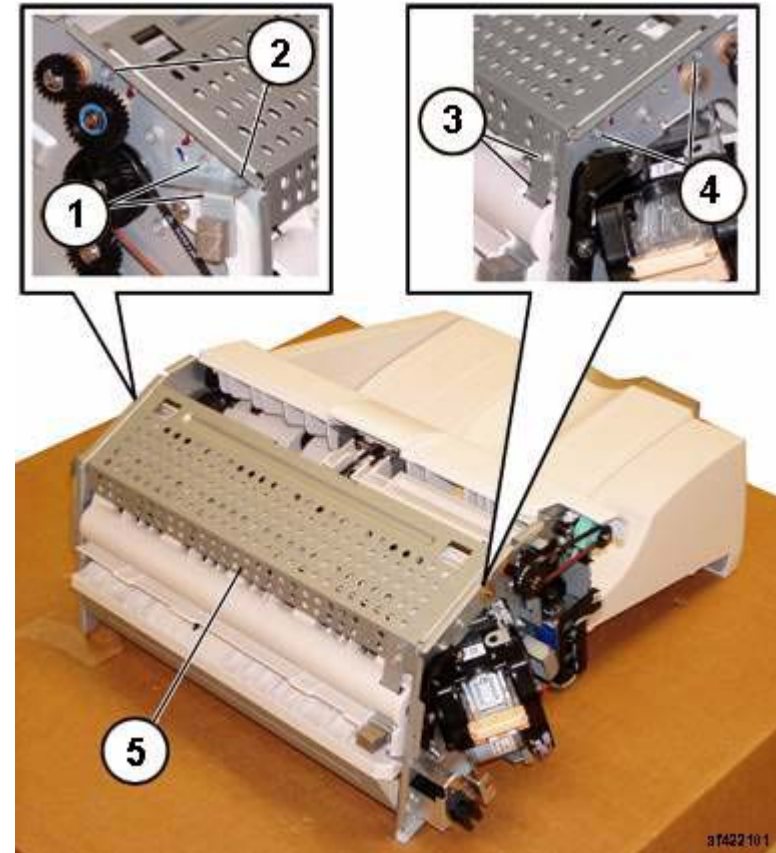


Figure 1 Removing the Upper Frame Section (af422101)

NOTE: The screws do not thread into the Upper Chute. They are used like pins to secure the Upper Chute in place.

6. Remove the Upper Chute Assembly. (Figure 2)
 - (1)Remove Screws (2).
 - (2)Remove Screw.
 - (3)Carefully Remove the Upper Chute Assembly.

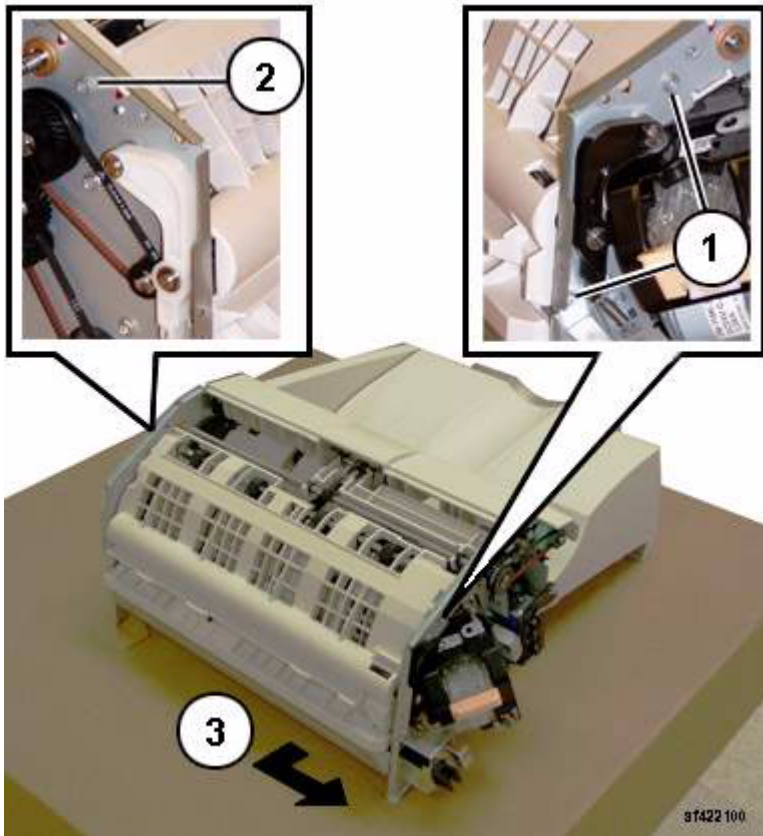


Figure 2 Removing the Upper Chute Assembly (af422100)

7. Remove the Exit Roll Assembly. (Figure 3)
 - (1) Remove E-ring and Bearing.
 - (2) Remove E-ring and Bearing.
 - (3) Remove the Exit Roll Assembly.

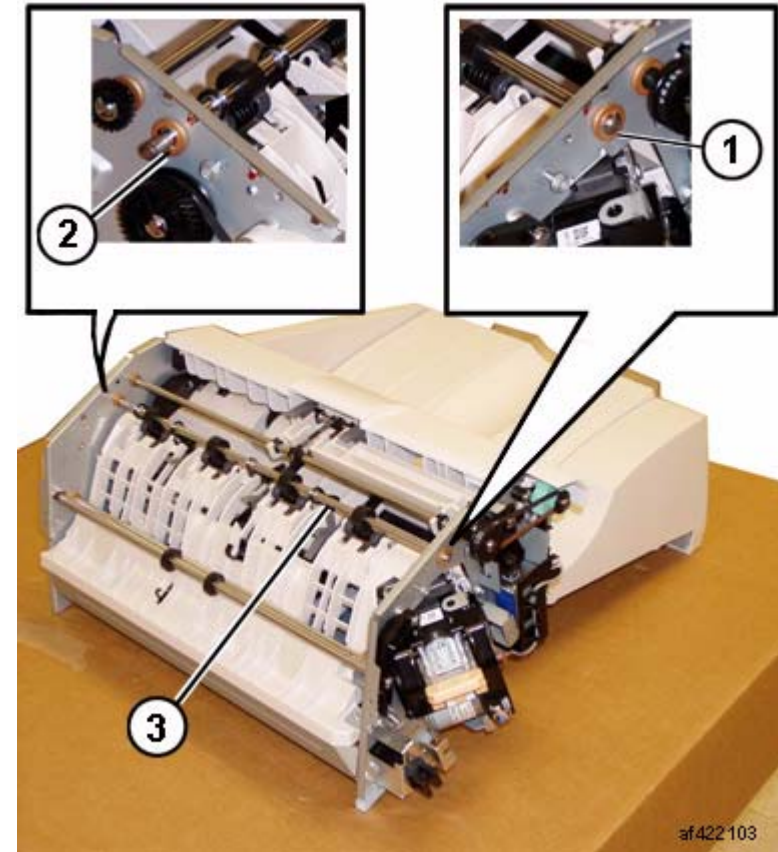


Figure 3 Removing the Exit Roll Assembly (af422103)

Replacement

1. Reverse the removal procedure for replacement.

NOTE: Ensure that the Paper Guides on the Upper Chute (PL 22.6) are not folded back on top of the Exit Roll Assembly (PL 22.5).

REP 22.5.1 Pinch Roll

Parts List on PL 22.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Pinch Roll. (Figure 1)
(1)Raise Springs (4) in the direction of the arrow.
(2)Remove Pinch Rolls (4).

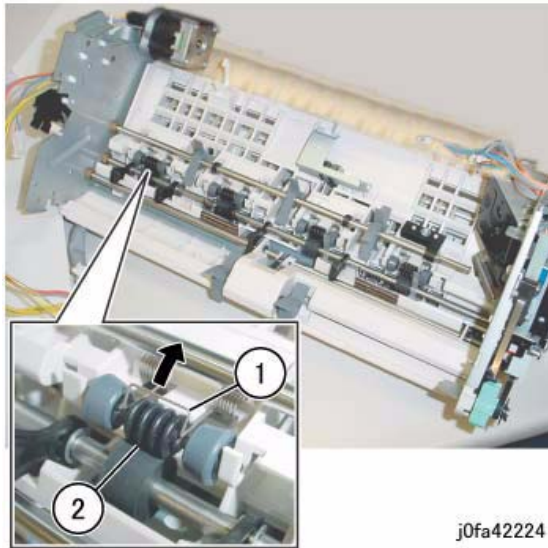


Figure 1 Removing the Pinch Rolls (j0fa42224)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.5.2 Finisher Entrance Sensor

Parts List on PL 22.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Turn over the A-Finisher.
3. Remove the Bottom Cover. (PL 22.2)
4. Remove the Connector Bracket. (Figure 1)
(1)Release Clamps (3) and remove the wire.
(2)Disconnect Connectors (5).
(3)Remove Screws (2).
(4)Remove Connector Bracket.

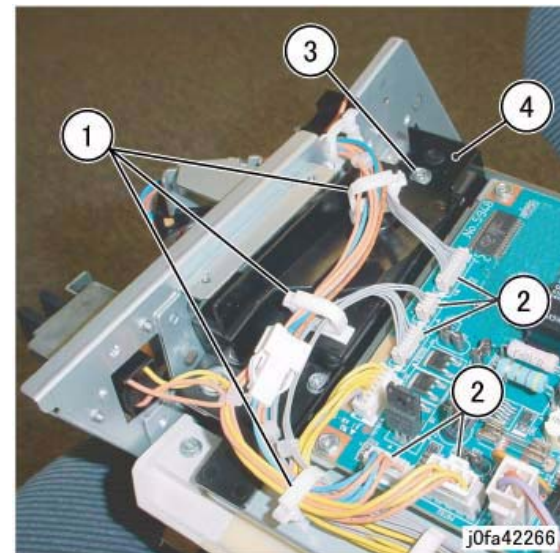


Figure 1 Removing the Connector Bracket (j0fa42266)

5. Remove the Bottom Plate. (Figure 2)

- (1)Release Clamps (5) and remove the wire.
- (2)Disconnect Connectors (8).
- (3)Remove Wire from Hook.
- (4)Remove Screws (4).
- (5)Remove Bottom Plate.

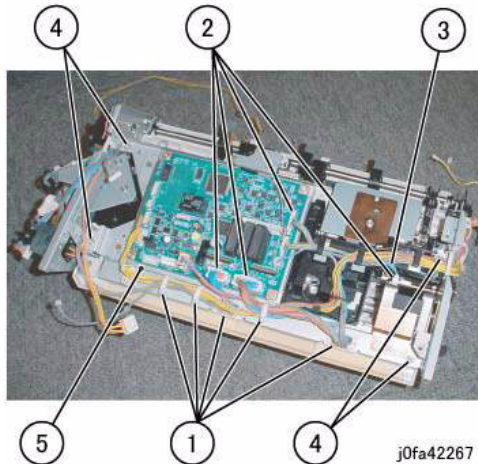


Figure 2 Removing the Bottom Plate (j0fa42267)

6. Remove the Finisher Entrance Sensor Assembly. (Figure 3)
 - (1)Disconnect Connector.
 - (2)Remove Tapping Screw.
 - (3)Remove Finisher Entrance Sensor Assembly.

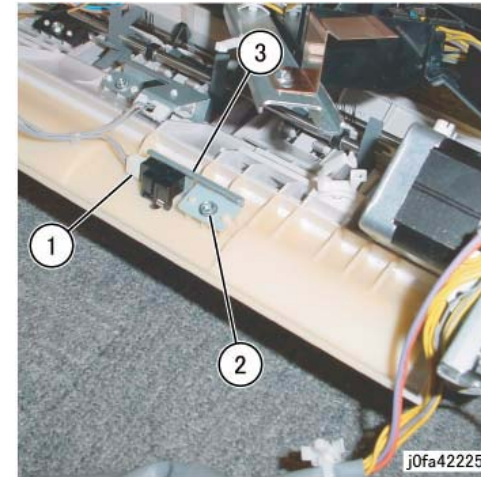


Figure 3 Removing the Finisher Entrance Sensor Assembly (j0fa42225)

7. Remove the Finisher Entrance Sensor. (Figure 4)
 - (1)Remove Finisher Entrance Sensor from Bracket.

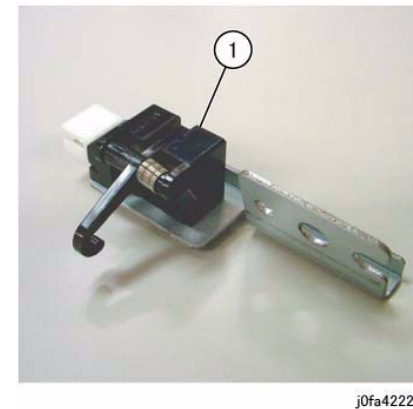


Figure 4 Removing the Finisher Entrance Sensor (j0fa42226)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.5.3 Compile Exit Sensor

Parts List on PL 22.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Turn over the A-Finisher.
3. Remove the Bottom Cover. (PL 22.2)
4. Remove the Connector Bracket. (Figure 1)
 - (1)Release Clamps (3) and remove the wire.
 - (2)Disconnect Connectors (5).
 - (3)Remove Screws (2).
 - (4)Remove Connector Bracket.

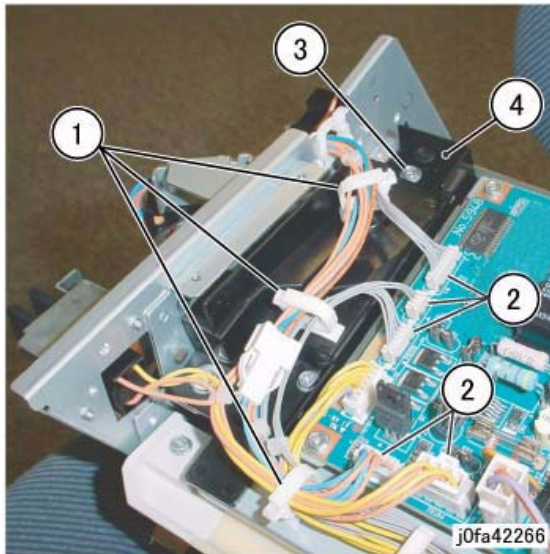


Figure 1 Removing the Connector Bracket (0fa42266)

5. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Release Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

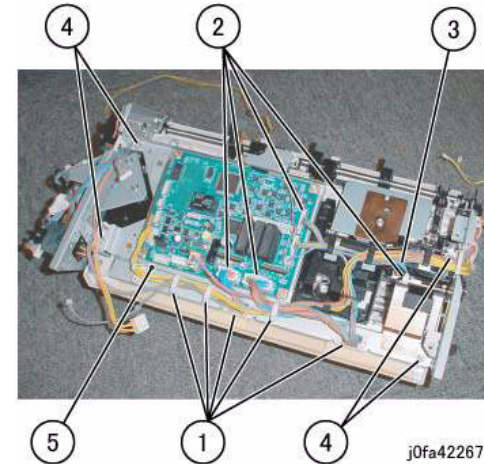


Figure 2 Moving the Bottom Plate (j0fa42267)

6. Remove the Compile Exit Sensor Assembly. (Figure 3)
 - (1)Remove Screw.
 - (2)Remove Compile Exit Sensor Assembly.

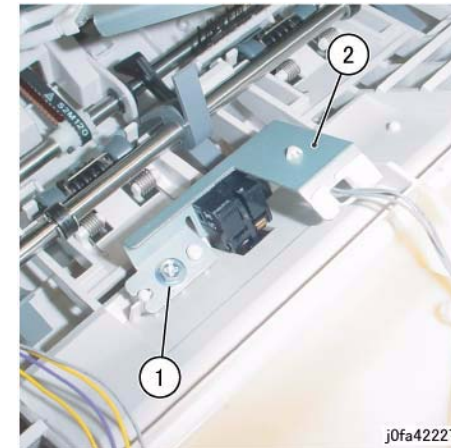


Figure 3 Removing the Compile Exit Sensor Assembly (j0fa42227)

7. Remove the Compile Exit Sensor. (Figure 4)
 - (1)Release Clamps (2) and remove the wire.
 - (2)Disconnect Connector.
 - (3)Remove Compile Exit Sensor.

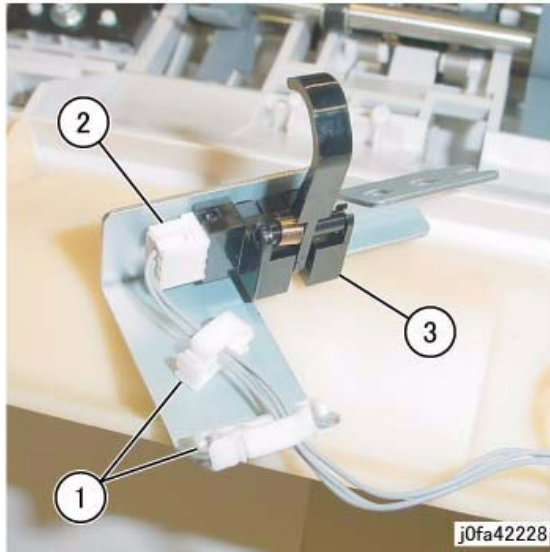


Figure 4 Removing the Compile Exit Sensor (j0fa42228)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.5.4 Main Paddle Shaft Assembly

Parts List on PL 22.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Gear. (Figure 1)
 - (1)Remove E-Clip.
 - (2)Remove Gear.
 - (3)Remove KL-Clip.
 - (4)Remove Gear.

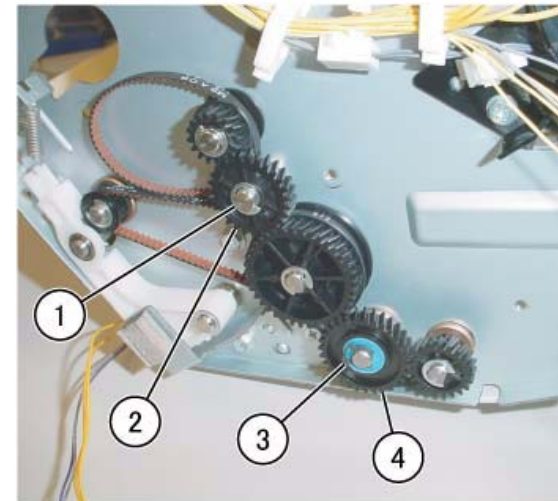


Figure 1 Removing the Gear (j0fa42292)

4. Remove the Gear Pulley. (Figure 2)
(1)Remove E-Clip.
(2)Remove Gear.
(3)Remove Flange.

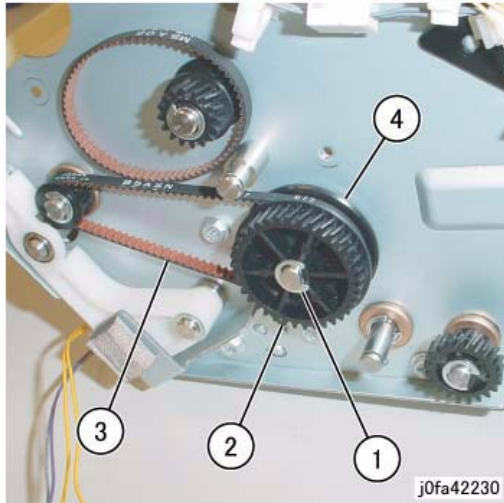


Figure 2 Removing the Gear Pulley (j0fa42293)

5. Remove the Bearing. (Figure 3)
(1)Remove Bearing.

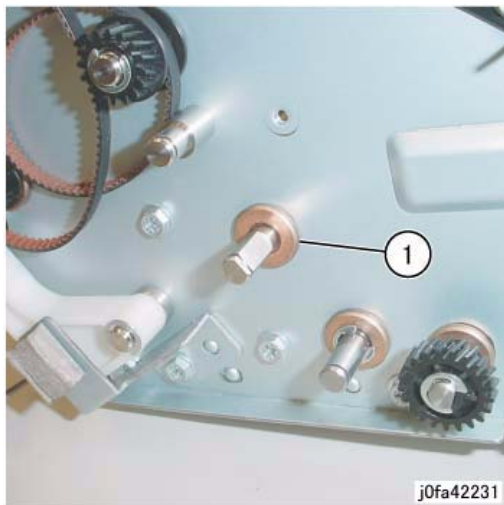


Figure 3 Removing the Bearing (j0fa42294)

6. Remove the Support Bearing from the ENT Lower Chute Assembly. (Figure 4)
(1)Remove Tapping Screw.
(2)Remove Support Bearing.

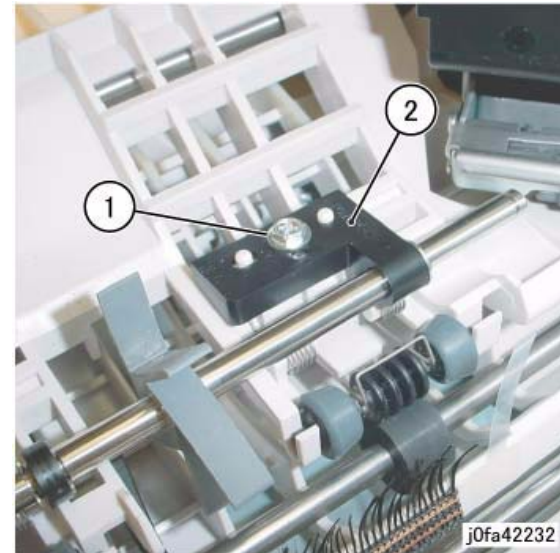


Figure 4 Removing the Support Bearing (j0fa42232)

7. Remove the Main Paddle Shaft Assembly. (Figure 5)
(1)Remove Main Paddle Shaft Assembly.

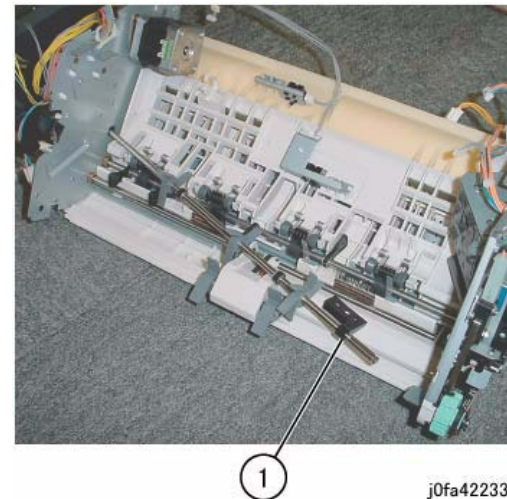


Figure 5 Removing the Main Paddle Shaft Assembly (j0fa42233)

8. Remove the Support Bearing from the Main Paddle Shaft Assembly. (Figure 6)
 - (1)Remove E-Clip.
 - (2)Remove Support Bearing.

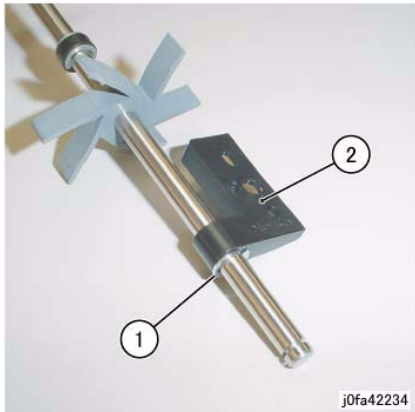


Figure 6 Removing the Support Bearing (j0fa42234)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.5.5 Lower Chute Assembly

Parts List on PL 22.5

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

*Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]*

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Turn over the A-Finisher (Transport).
4. Remove the Stapler Assembly. (Figure 1)
 - (1)Release Clamps (2) and remove the wire.
 - (2)Disconnect Connectors (2).
 - (3)Remove Screws (2).
 - (4)Remove Stapler Assembly.

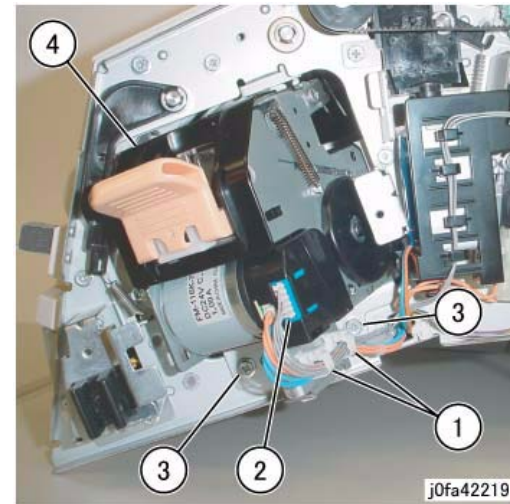
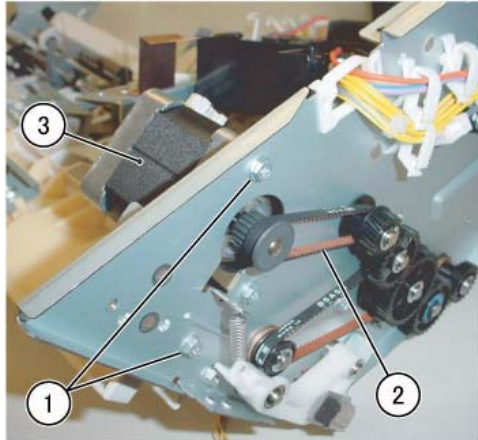


Figure 1 Removing the Stapler Assembly (j0fa42219)

5. Turn over the A-Finisher.
6. Remove the Transport Motor. (Figure 2)
 - (1)Remove Screws (2).

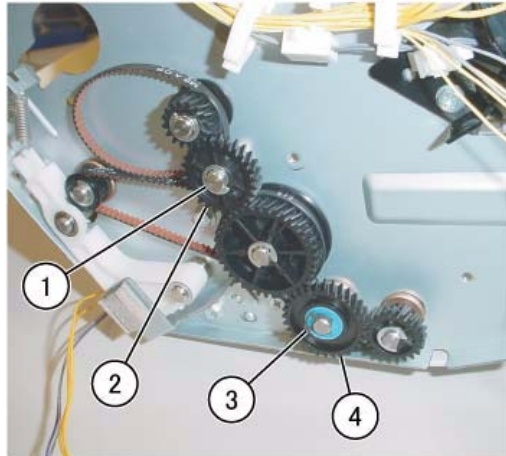
- (2)Remove Belt from Pulley.
- (3)Remove Transport Motor.



j0fa42236

Figure 2 Removing the Transport Motor (j0fa42236)

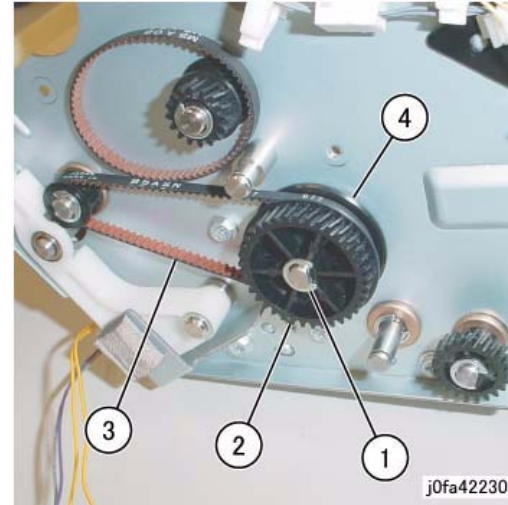
- 7. Remove the Gear. (Figure 3)
- (1)Remove E-Clip.
- (2)Remove Gear.
- (3)Remove KL-Clip.
- (4)Remove Gear.



j0fa42229

Figure 3 Removing the Gear (j0fa42229)

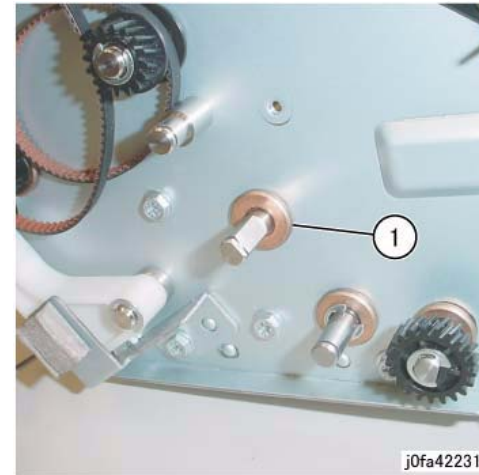
- 8. Remove the Gear Pulley. (Figure 4)
- (1)Remove E-Clip.
- (2)Remove Gear.
- (3)Remove Pulley from Belt.
- (4)Remove Flange.



j0fa42230

Figure 4 Removing the Gear Pulley (j0fa42230)

- 9. Remove the Bearing. (Figure 5)
- (1)Remove the Bearing.



j0fa42231

Figure 5 Removing the Bearing (j0fa42231)

10. Remove the ENT Lower Chute Assembly. (Figure 6)
 - (1)Remove Screws (2).
 - (2)Loosen Screws (2).
 - (3)Remove ENT Lower Chute Assembly.

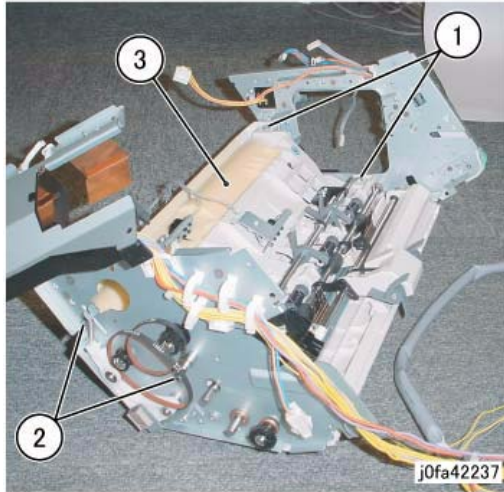


Figure 6 Removing the ENT Lower Chute Assembly (j0fa42237)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.6.1 ENT Roll Assembly

Parts List on PL 22.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Remove the Left Cover. (PL 22.2)
5. Remove the Upper Frame Section. (Figure 1)
 - (1)Remove Screw and Bracket.
 - (2)Remove Screws (2).
 - (3)Remove Screw and Bracket.
 - (4)Remove Screws (2).
 - (5)Remove the Upper Frame Section

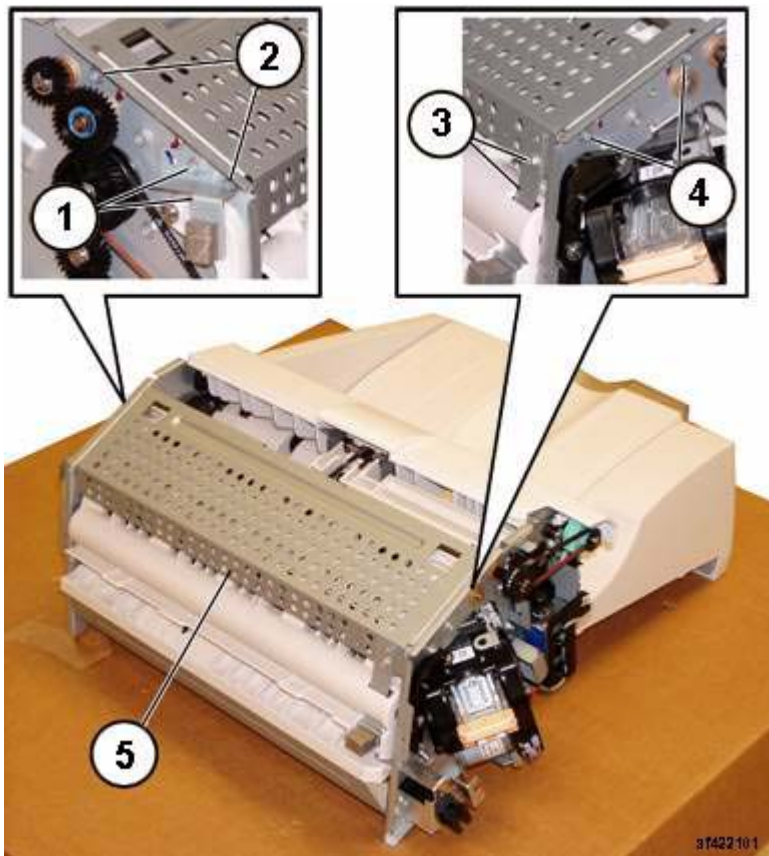


Figure 1 Removing the Upper Frame Section (af422101)

NOTE: The screws do not thread into the Upper Chute. They are used like pins to secure the Upper Chute in place.

6. Remove the Upper Chute Assembly. (Figure 2)
 - (1) Remove Screws (2).
 - (2) Remove Screw.
 - (3) Carefully Remove the Upper Chute Assembly.

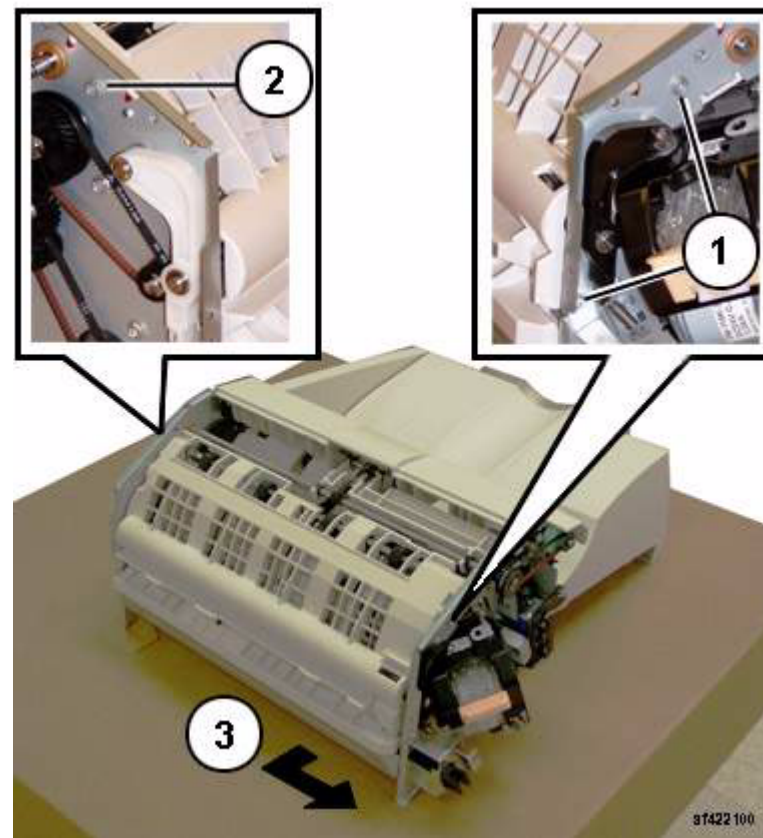


Figure 2 Removing the Upper Chute Assembly (af422100)

7. Remove the ENT Roll Assembly. (Figure 3)
 - (1) Disconnect Spring.
 - (2) Remove E-Rings (2).

NOTE: Capture the Bearing

- (3) Remove Arm.
- (4) Slide Shaft out of the Bearing in the Arm.

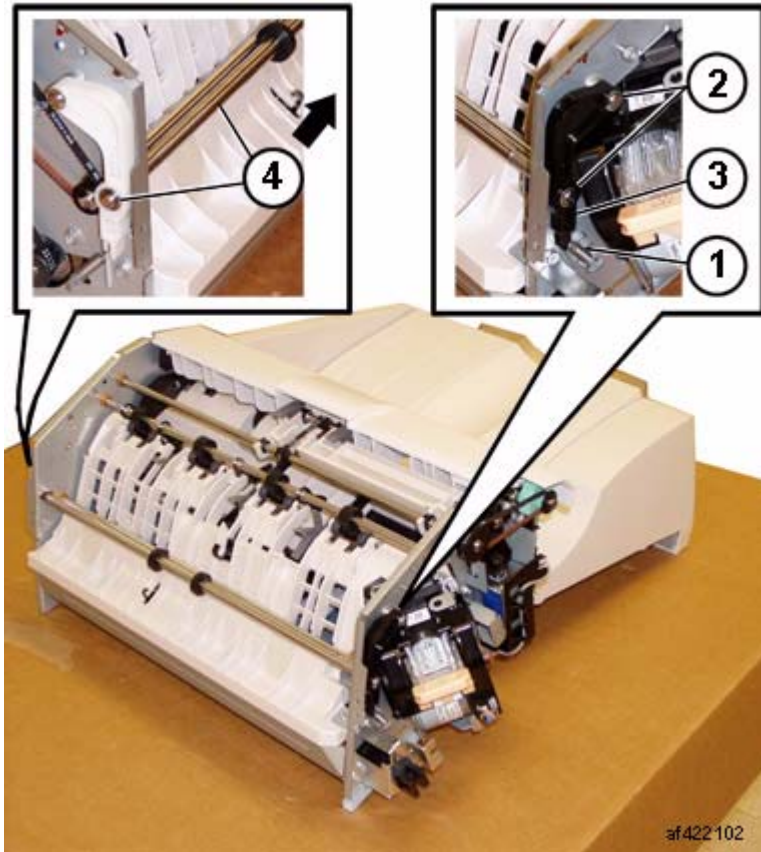


Figure 3 Removing the Gear (af422102)

REP 22.6.2 Upper Chute Assembly

Parts List on PL 22.6

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

*Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]*

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Remove the Left Cover. (PL 22.2)
5. Remove the Upper Frame Section. (Figure 1)
 - (1) Remove Screw and Bracket.
 - (2) Remove Screws (2).
 - (3) Remove Screw and Bracket.
 - (4) Remove Screws (2).
 - (5) Remove the Upper Frame Section

Replacement

1. Reverse the removal procedure for replacement.

NOTE: Ensure that the Paper Guides on the Upper Chute (PL 22.6) are not folded back on top of the Exit Roll Assembly (PL 22.5).

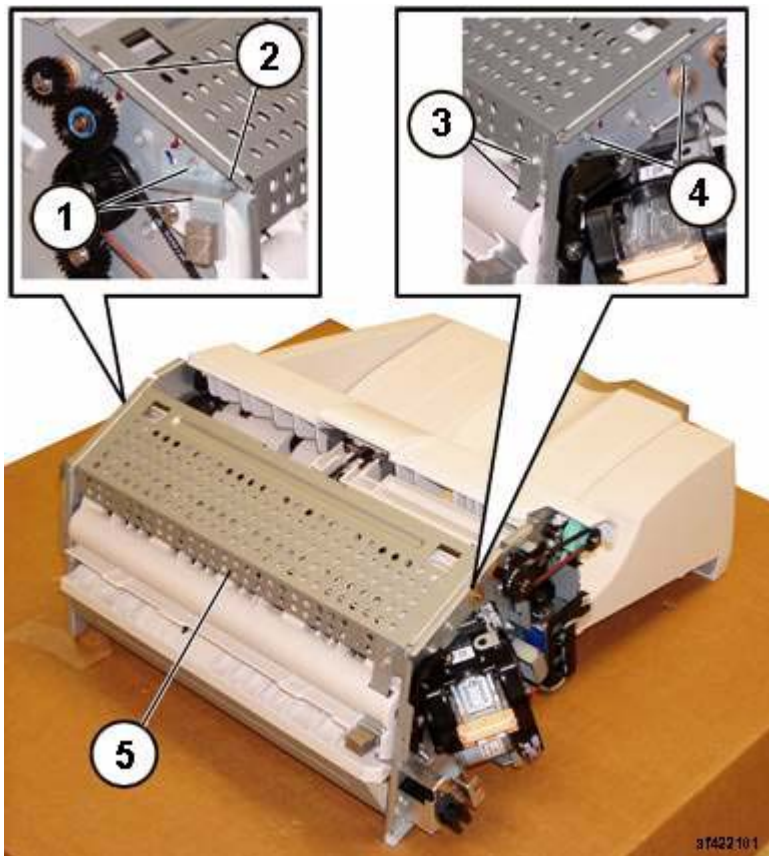


Figure 1 Removing the Upper Frame Section (af422101)

NOTE: The screws do not thread into the Upper Chute. They are used like pins to secure the Upper Chute in place.

6. Remove the Upper Chute Assembly. (Figure 2)
 - (1) Remove Screws (2).
 - (2) Remove Screw.
 - (3) Carefully Remove the Upper Chute Assembly.

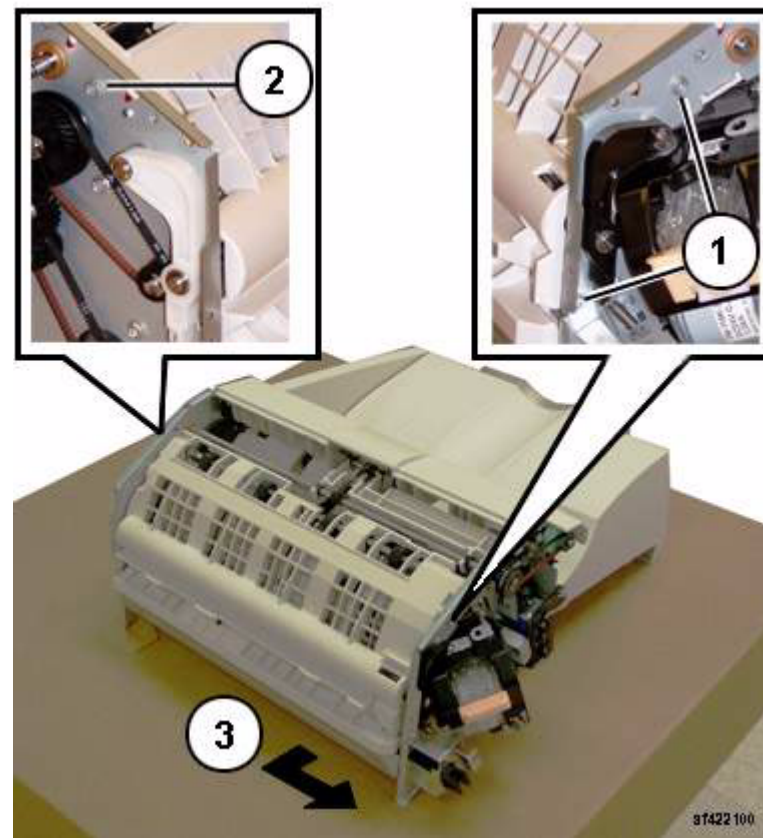


Figure 2 Removing the Upper Chute Assembly (af422100)

Replacement

1. Reverse the removal procedure for replacement.

NOTE: Ensure that the Paper Guides (PL 22.6) are not folded back on top of the Exit Roll Assembly (PL 22.5).

REP 22.7.1 Finisher Control PWB

Parts List on PL 22.7

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Turn over the Finisher.
3. Remove the Bottom Cover. (PL 22.2)
4. Remove the Finisher Control PWB. (Figure 1)
 - (1) Disconnect Connectors (12).
 - (2) Remove Screws (4).
 - (3) Remove Finisher Control PWB.

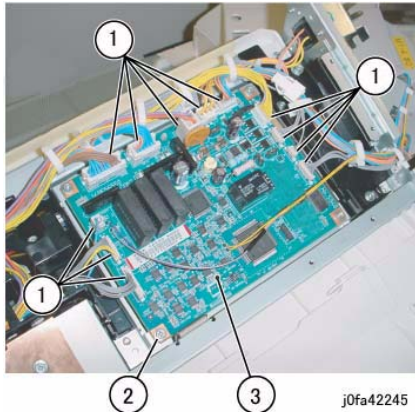


Figure 1 Removing the Finisher Control PWB (j0fa42245)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.8.1 Stacker Tray Assembly

Parts List on PL 22.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Tray Cover. (PL 22.2)
7. Disconnect Connector. (Figure 1)
 - (1) Release Clamp.
 - (2) Remove Clamp.
 - (3) Release and remove Wire from Hook.
 - (4) Release Clamp.
 - (5) Disconnect Connector.
 - (6) Release and remove Wire from Hook.

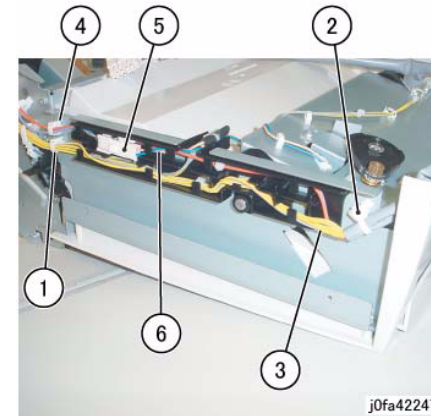


Figure 1 Disconnecting the Connector (j0fa42247)

8. Release the Clamps and the Hook to remove the wire. (Figure 2)
 - (1)Release Clamps (5).
 - (2)Remove Wire from Hook.

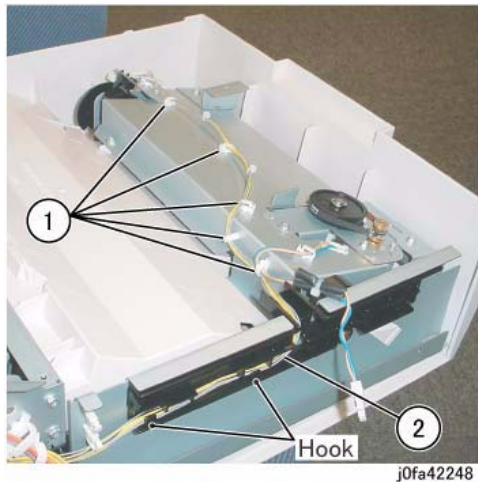


Figure 2 Disconnecting the Wire (j0fa42248)

9. Remove the Stacker Stack Sensor Assembly. (Figure 3)
 - (1)Remove Screw.
 - (2)Remove Stacker Stack Sensor Assembly.
 - (3)Release Clamps (4).
 - (4)Disconnect Connectors (2).

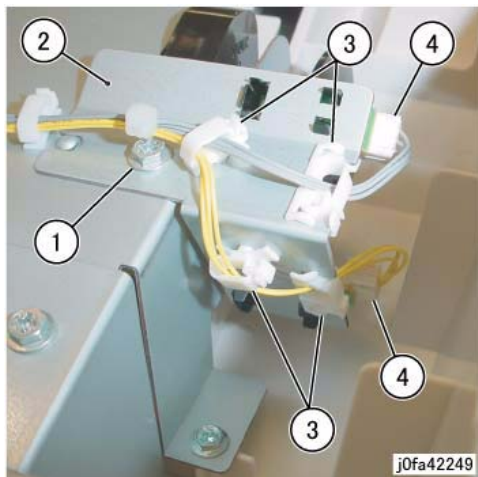


Figure 3 Removing the Stacker Sensor Assembly (j0fa42249)

10. Remove the Stacker Tray Assembly. (Figure 4)
 - (1)Remove Screws (5).
 - (2)Remove Stacker Tray Assembly.

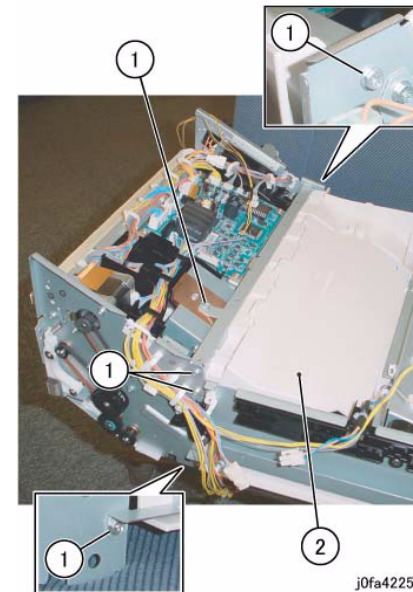


Figure 4 Removing the Stacker Tray Assembly (j0fa42250)

Replacement

1. Reverse the removal procedure for replacement.
2. Install the Stacker Tray Assembly and A-Finisher as shown in the figure. (Figure 5)



Figure 5 Installing the Stacker Tray Assembly (j0fa42251)

REP 22.8.2 Stacker Shaft Assembly

Parts List on PL 22.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Rear Cover. (PL 22.1)
3. Turn over the A-Finisher.
4. Remove the Tray Cover. (PL 22.2)
5. Remove the rear Bracket. (Figure 1)
(1)Remove Screw.
(2)Remove Bracket.

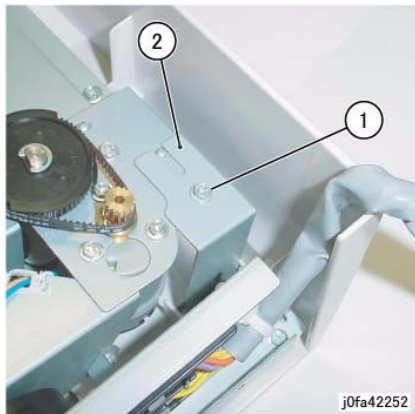


Figure 1 Removing the Bracket (j0fa42252)

6. Remove the front Bracket. (Figure 2)
(1)Remove Screw.
(2)Remove Bracket.

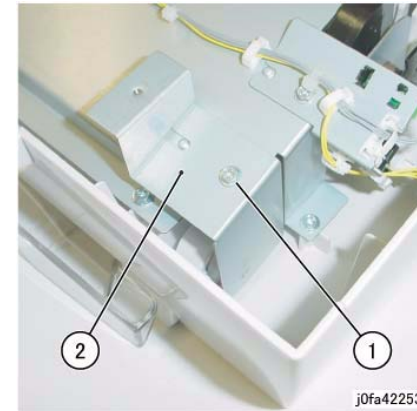


Figure 2 Removing the Bracket (j0fa42253)

7. Remove the Top Tray. (Figure 3)
(1)Raise A-Finisher slightly in the direction of the arrow.
(2)Remove Top Tray.

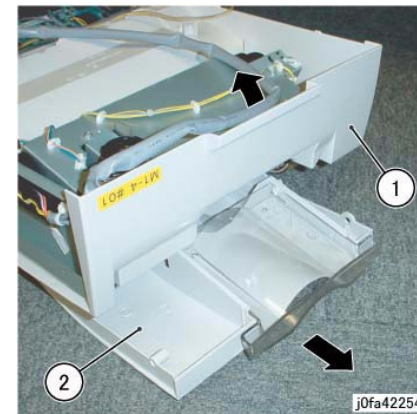


Figure 3 Removing the Top Tray (j0fa42254)

8. Disconnect Connector. (Figure 4)
(1)Release Clamps (5) and remove the wire.
(2)Release Wire from Hook.
(3)Disconnect Connector.

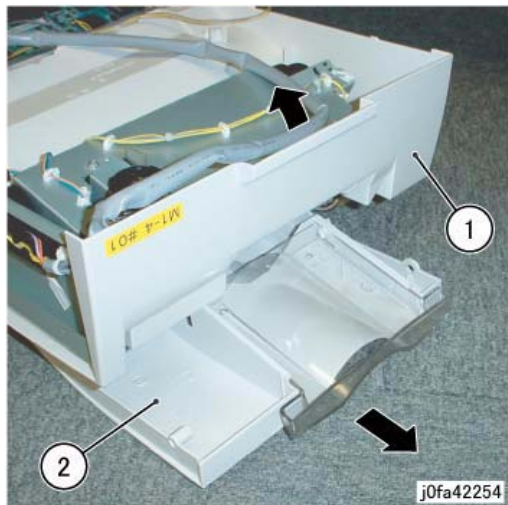


Figure 4 Disconnecting the Connector (j0fa42255)

9. Remove the Stacker Stack Sensor Assembly. (Figure 5)

- (1)Remove Screw.
- (2)Remove Stacker Stack Sensor Assembly.
- (3)Remove Wire from Clamps (5)

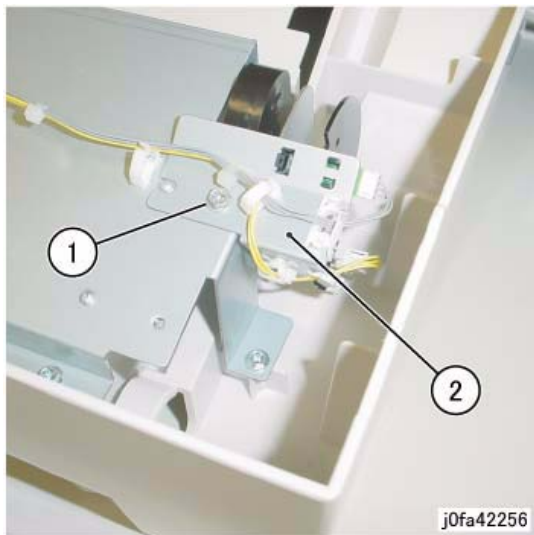


Figure 5 Removing the Stacker Stack Sensor Assembly (j0fa42256)

10. Remove the Stacker Assembly. (Figure 6)

- (1)Remove Tapping Screws (5).
- (2)Remove Screw.
- (3)Remove Stacker Assembly.

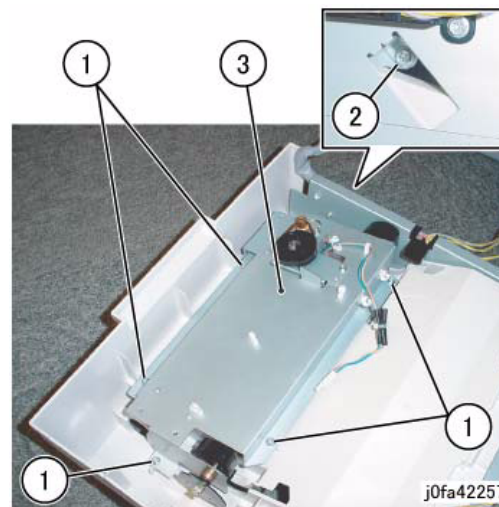


Figure 6 Removing the Stacker Assembly (j0fa42257)

11. Remove the Actuator. (Figure 7)

- (1)Unhook.
- (2)Remove Actuator.

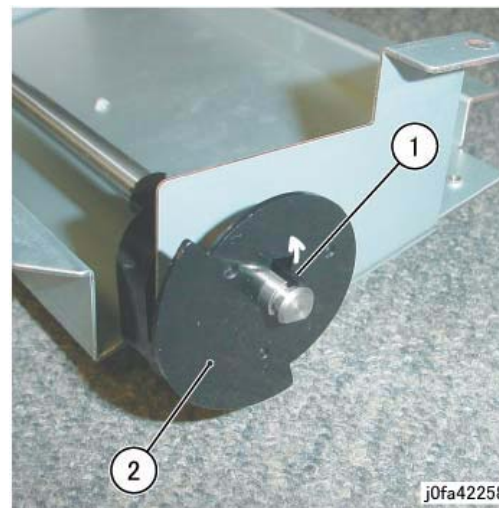


Figure 7 Removing the Actuator (j0fa42258)

12. Move the Bearing. (Figure 8)
 - (1) Remove E-Clip.
 - (2) Move Bearing in the direction of the arrow.

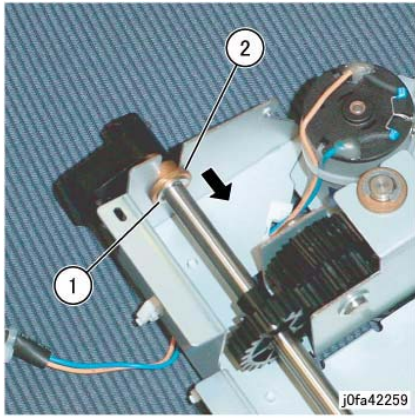


Figure 8 Moving the Bearing (j0fa42259)

13. Remove the Stacker Shaft Assembly. (Figure 9)
 - (1) Remove Stacker Shaft Assembly in the direction of the arrow.

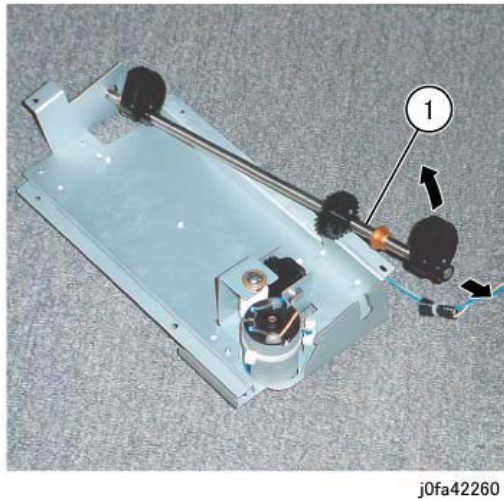


Figure 9 Removing the Stacker Shaft Assembly (j0fa42260)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.8.3 Stacker Motor

Parts List on PL 22.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Rear Cover. (PL 22.1)
3. Turn over the A-Finisher.
4. Remove the Tray Cover. (PL 22.2)
5. Disconnect the Connector. (Figure 1)
 - (1) Release Clamps (3) and remove the wire.
 - (2) Release Wire from Hook.
 - (3) Disconnect Connector.

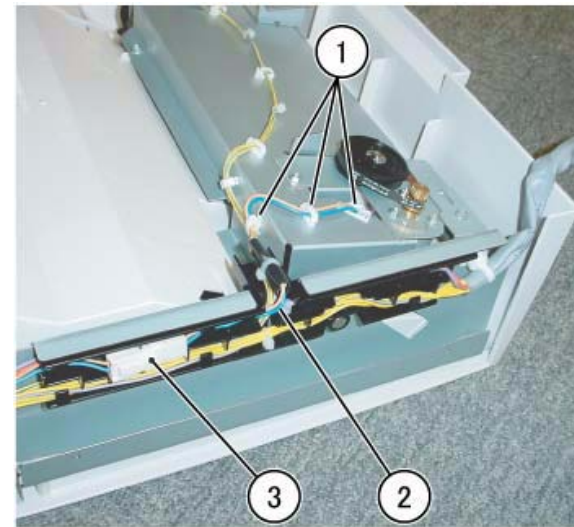


Figure 1 Disconnecting the Connector (j0fa42261)

6. Remove the Bracket. (Figure 2)

- (1)Remove Screw.
- (2)Remove Bracket.

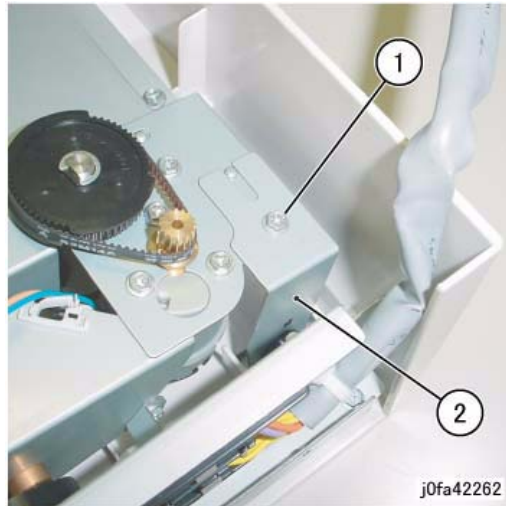


Figure 2 Removing the Bracket (j0fa42262)

7. Remove the Stacker Motor Assembly. (Figure 3)

- (1)Remove Screws (2).
- (2)Remove Stacker Motor Assembly.

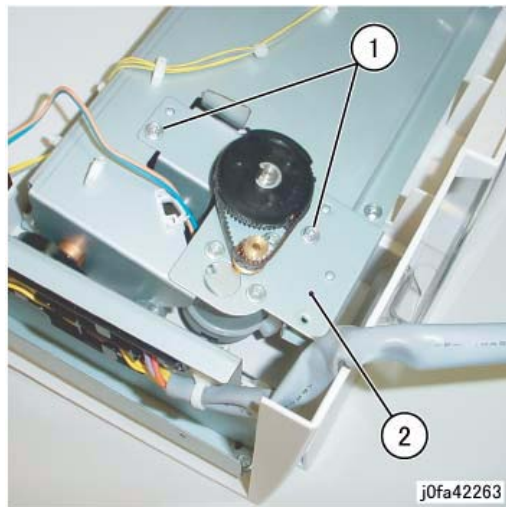


Figure 3 Removing the Stacker Motor Assembly (j0fa42263)

8. Remove the Stacker Motor. (Figure 4)

- (1)Remove Screws (3).
- (2)Remove Belt from Pulley.
- (3)Remove Stacker Motor.

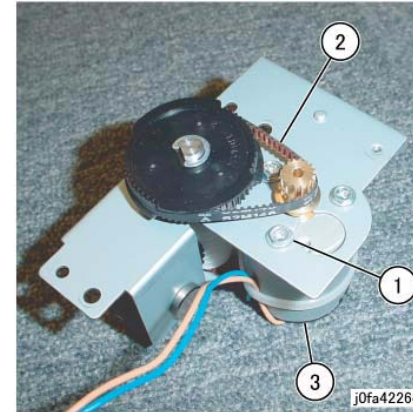


Figure 4 Removing the Stacker Motor (j0fa42264)

Replacement

1. Reverse the removal procedure for replacement.
2. Install the Stacker Motor as shown in the figure. (Figure 5)

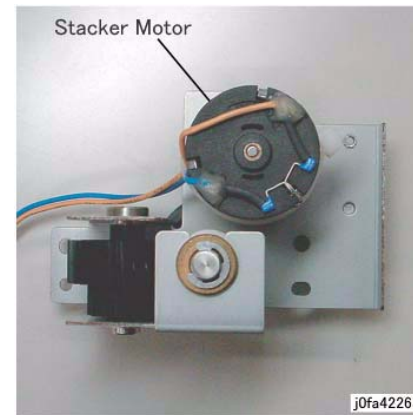


Figure 5 Installing the Stacker Motor (j0fa42265)

REP 22.8.4 Stacker Stack Sensor

Parts List on PL 22.8

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Rear Cover. (PL 22.1)
3. Turn over the A-Finisher.
4. Remove the Tray Cover. (PL 22.2)
5. Remove the Stacker Stack Sensor Assembly. (Figure 1)
 - (1)Release the wire from the Clamp.
 - (2)Remove Screw.
 - (3)Remove Stacker Stack Sensor Assembly.
 - (4)Disconnect the Sensor Connector and remove Sensor from Bracket (5)

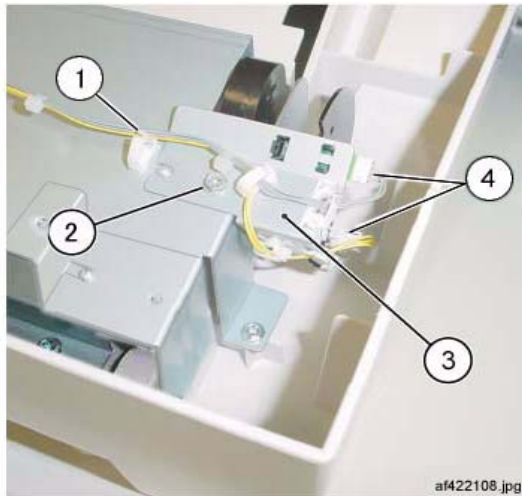


Figure 1 Removing the Stacker Stack Sensor Assembly (af422108)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.9.1 Compile Assembly

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Tray Cover. (PL 22.2)
7. Remove the Connector Bracket. (Figure 1)
 - (1)Release Clamps (3) and remove the wire.
 - (2)Disconnect Connectors (5).
 - (3)Remove Screws (2).
 - (4)Remove Connector Bracket.

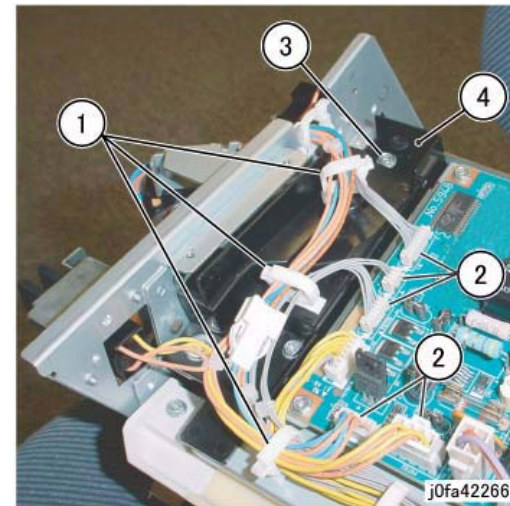


Figure 1 Removing the Connector Bracket (j0fa42266)

8. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

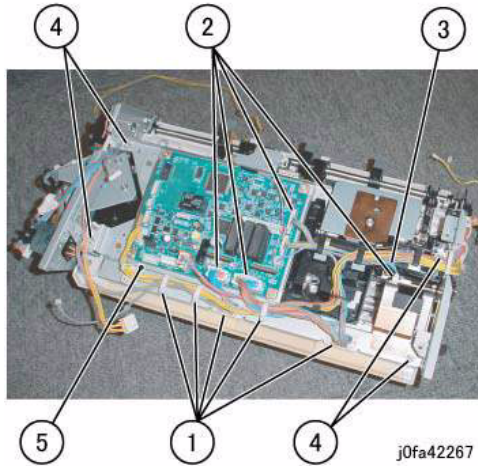


Figure 2 Removing the Bottom Plate (j0fa42267)

9. Release the Clamp from the wire. (Figure 3)
 - (1)Release Clamp and remove the wire.

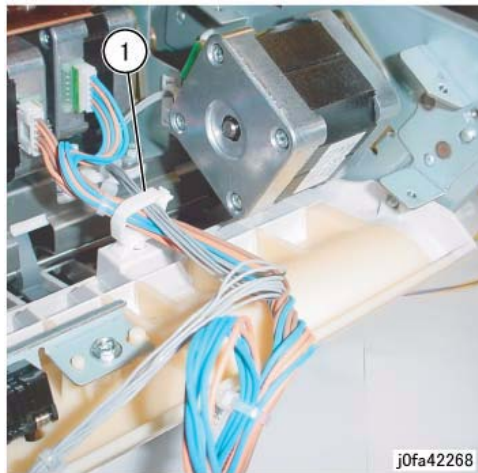


Figure 3 Releasing the Clamp (j0fa42268)

10. Remove the Stacker Tray (Figure 4)
 - (1)Release wires from Clamps (5)
 - (2)Disconnect the Connector
 - (3)Remove Screws (7)
 - (4)Remove the Stacker Tray

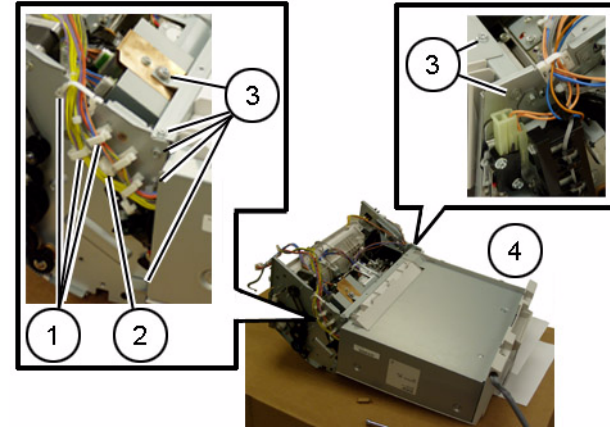


Figure 4 Removing the Stacker Tray (af422107)

11. Remove the front Tapping Screw. (Figure 5)
 - (1)Remove Tapping Screw.

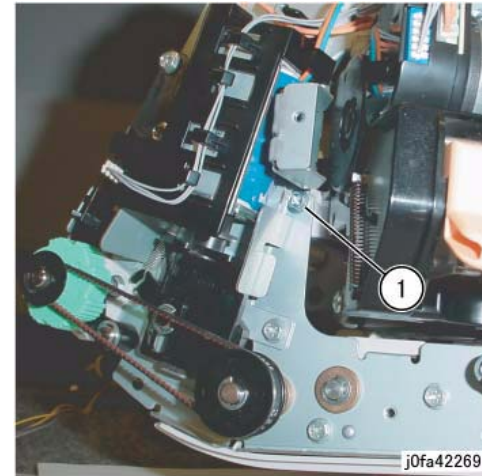


Figure 5 Removing the Tapping Screw (j0fa42269)

12. Remove the rear Screw. (Figure 5)
 - (1)Remove Screw.

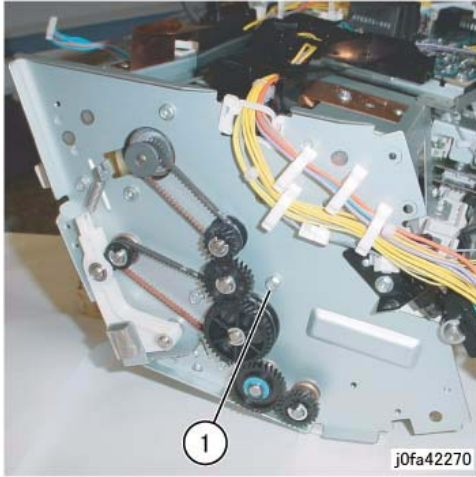


Figure 6 Removing the Screw (j0fa42270)

13. Remove the Compile Assembly. (Figure 6)
 - (1) Remove Compile Assembly.

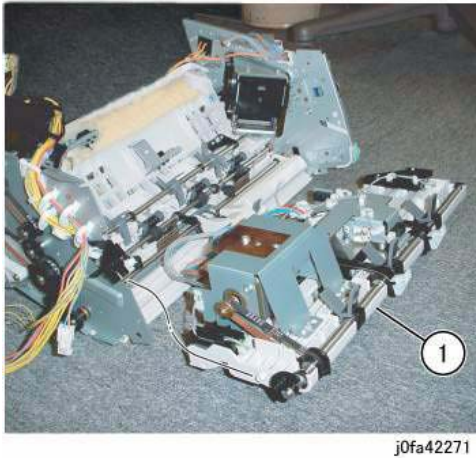


Figure 7 Removing the Compile Assembly (j0fa42271)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.9.2 Set Clamp Shaft

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Bracket Assembly. (Figure 1)
 - (1) Release Clamps (2) and remove the wire.
 - (2) Remove Screws (2).
 - (3) Remove Bracket Assembly.

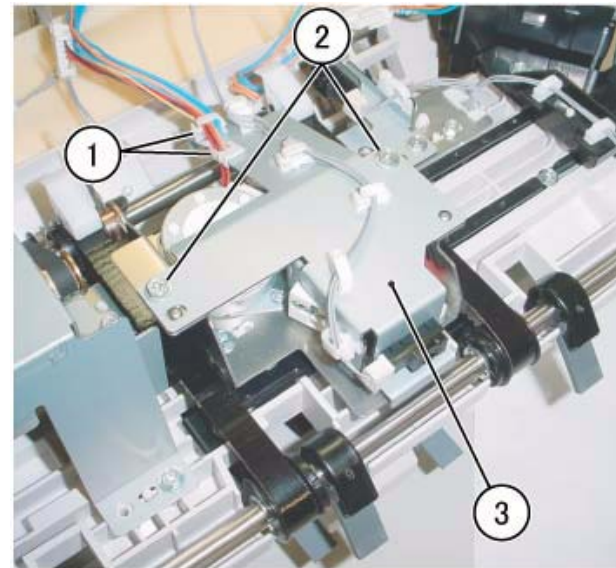
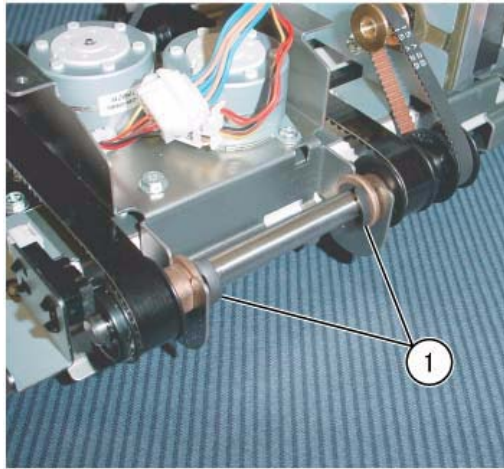


Figure 1 Removing the Bracket Assembly (j0fa42272)

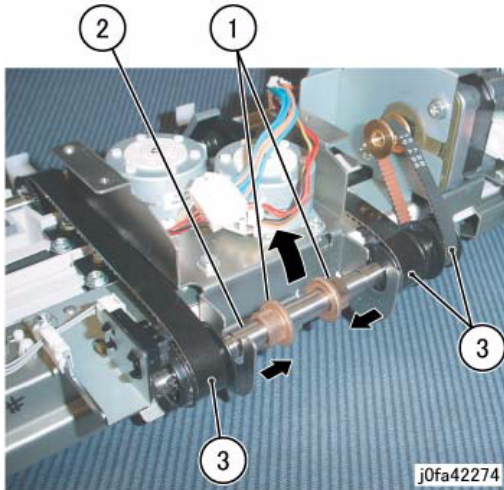
4. Remove the KL-Clips from the Eject Shaft. (Figure 2)
(1)Remove KL-Clips (2).



j0fa42273

Figure 2 Removing the KL-Clips (j0fa42273)

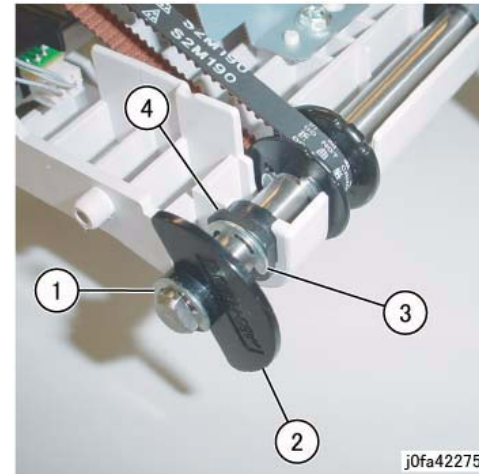
5. Remove the Eject Shaft from the Front/Rear Tamper Motor Assembly. (Figure 3)
(1)Move Bearings (2) in the direction of the arrow.
(2)Remove Eject Shaft in the direction of the arrow.
(3)Remove Belt from Pulley.



j0fa42274

Figure 3 Removing the Eject Shaft (j0fa42274)

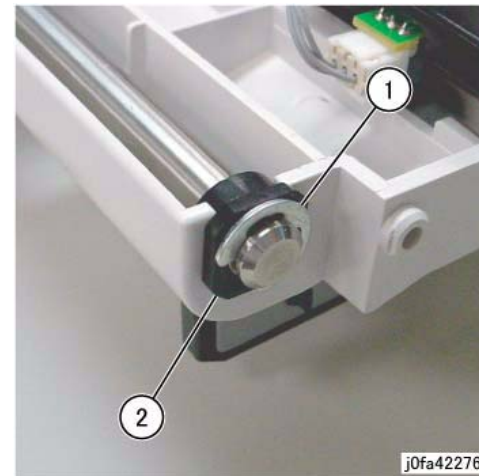
6. Remove the Actuator and the Bearing. (Figure 4)
(1)Remove E-Clip.
(2)Remove Actuator.
(3)Remove E-Clip.
(4)Remove Bearing.



j0fa42275

Figure 4 Removing the Actuator and Bearing (j0fa42275)

7. Remove the Bearing. (Figure 5)
(1)Remove E-Clip.
(2)Remove Bearing.



j0fa42276

Figure 5 Removing the Bearing (j0fa42276)

8. Remove the Set Clamp Shaft. (Figure 6)
 - (1) Move Set Clamp Shaft in the direction of the arrow.
 - (2) Remove Belts (3) from Pulleys (3).
 - (3) Remove Set Clamp Shaft in the direction of the arrow.

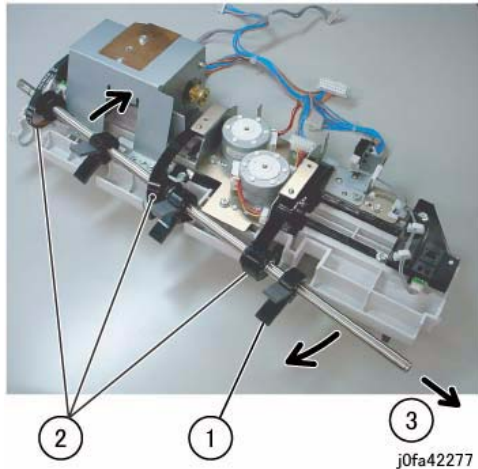


Figure 6 Removing the Set Clamp Shaft (j0fa42277)

Replacement

1. Reverse the removal procedure for replacement.
2. Install and align the Eject Belt with marks on the Pulleys. (Figure 7)

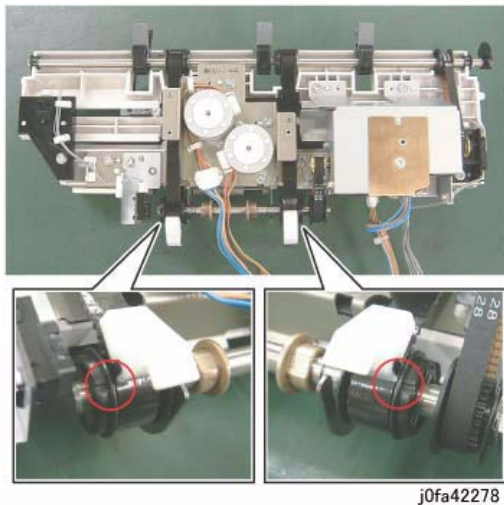


Figure 7 Installing the Eject Belt (j0fa42278)

REP 22.9.3 Eject Belt

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Front/Rear Tamper Motor Assembly. (REP 22.10.1)
4. Move the Eject Home Sensor Assembly. (Figure 1)
 - (1) Remove Screw.
 - (2) Move Eject Home Sensor Assembly.

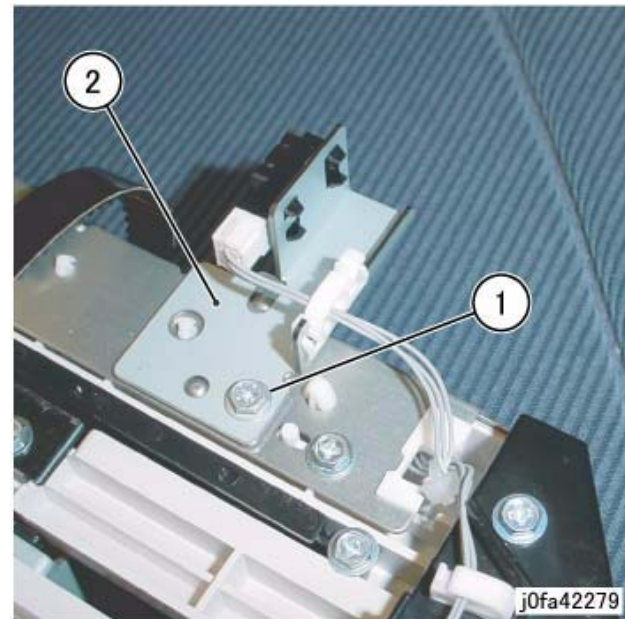
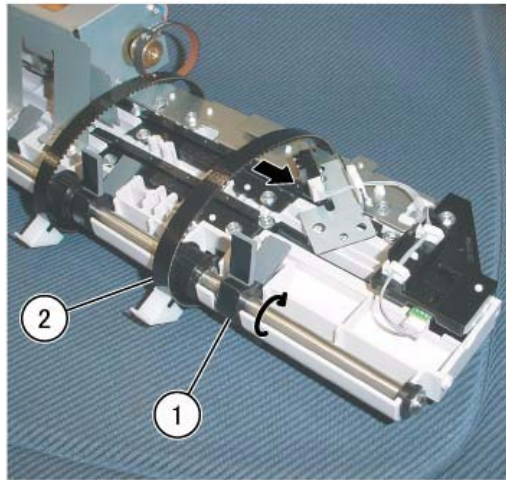


Figure 1 Moving the Eject Home Sensor Assembly (j0fa42279)

5. Remove the Eject Belt. (Figure 2)
 - (1) Move the blades of Set Clamp Shaft in the direction of the arrow.
 - (2) Remove Eject Belt in the direction of the arrow.

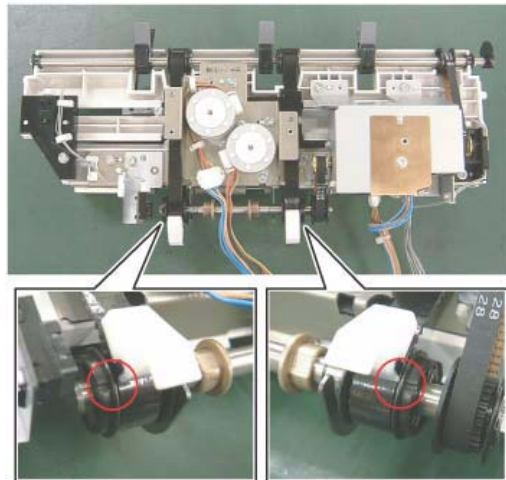


j0fa42280

Figure 2 Removing the Eject Belt (j0fa42280)

Replacement

1. Reverse the removal procedure for replacement.
2. Install and align the Eject Belt with marks on the Pulleys. (Figure 3)



j0fa42278

Figure 3 Installing the Eject Belt (j0fa42278)

REP 22.9.4 Eject/Set Clamp Motor Assembly

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

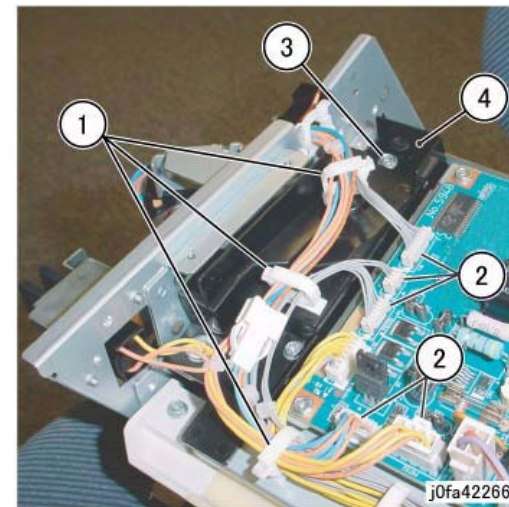
Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Connector Bracket. (Figure 1)
 - (1) Release Clamps (3) and remove the wire.
 - (2) Disconnect Connectors (5).
 - (3) Remove Screws (2).
 - (4) Remove Connector Bracket.



j0fa42266

Figure 1 Removing the Connector Bracket (j0fa42266)

7. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

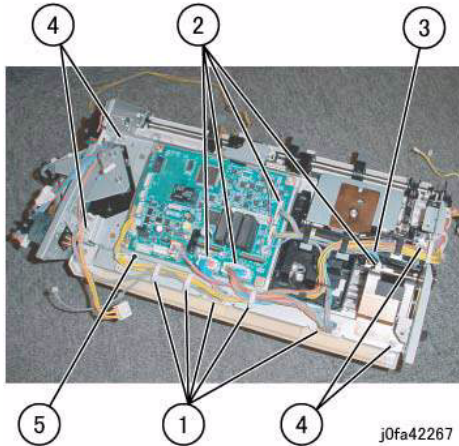


Figure 2 Removing the Bottom Plate (j0fa42267)

8. Remove the Stacker Tray (Figure 3)
 - (1)Release wires from Clamps (5)
 - (2)Disconnect the Connector
 - (3)Remove Screws (7)
 - (4)Remove the Stacker Tray

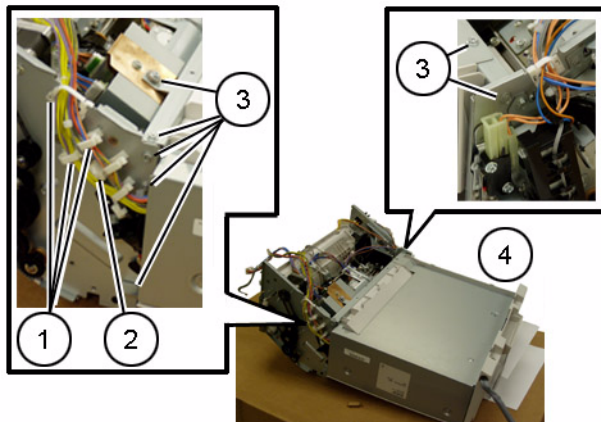


Figure 3 Removing the Stacker Tray (af422107)

9. Remove the screws securing the Eject/Set Clamp Motor Assembly. (Figure 4)
 - (1)Release Clamps (2) and remove the wire.
 - (2)Remove Screws (2).
 - (3)Remove Tapping Screws (2).

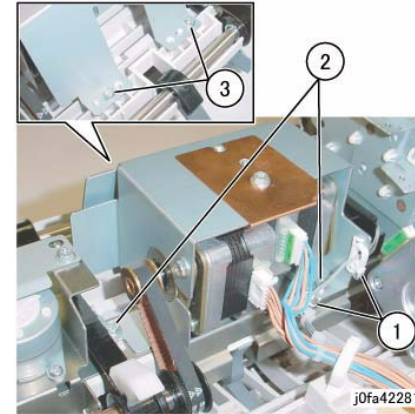


Figure 4 Removing Screws (j0fa42281)

10. Remove the Eject/Set Clamp Motor Assembly. (Figure 5)
 - (1)Remove Belts (2) from Pulley.
 - (2)Remove Eject/Set Clamp Motor Assembly.

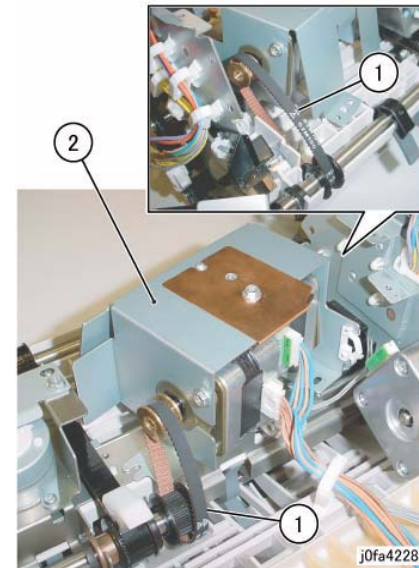


Figure 5 Removing the Eject/Set Clamp Motor Assembly (j0fa42282)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.9.5 Rear Tamper Home Sensor

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

*Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]*

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Connector Bracket. (Figure 1)
 - (1)Release Clamps (3) and remove the wire.
 - (2)Disconnect Connectors (5).
 - (3)Remove Screws (2).
 - (4)Remove Connector Bracket.

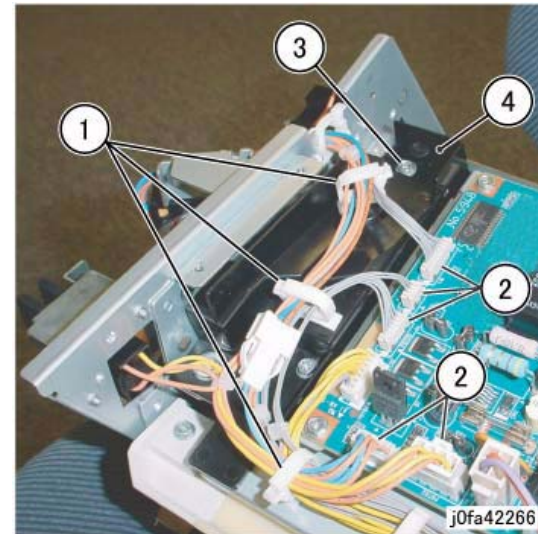


Figure 1 Removing the Connector Bracket (j0fa42266)

7. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire form Hook.
 - (4)Remove Screw (4).
 - (5)Remove Bottom Plate.

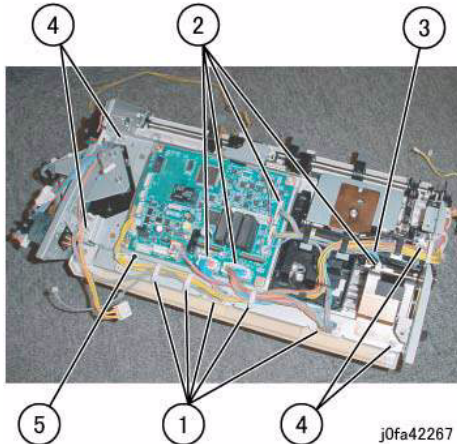


Figure 2 Moving the Bottom Plate (j0fa42267)

8. Remove the Rear Tamper Home Sensor Assembly. (Figure 3)
 - (1)Release Clamps (2) and remove the wire.
 - (2)Remove Tapping Screw.
 - (3)Move Rear Tamper Home Sensor Assembly in order to disconnect the connector.

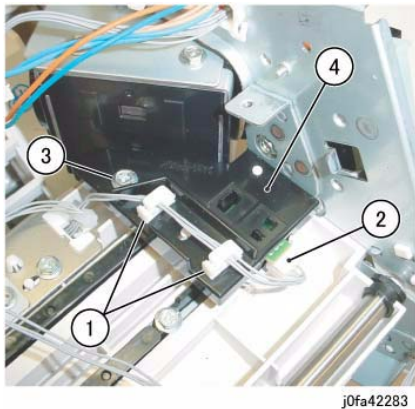


Figure 3 Removing the Rear Tamper Home Sensor Assembly (j0fa42283)

9. Remove the Rear Tamper Home Sensor. (Figure 4)
 - (1)Remove Rear Tamper Home Sensor from the bracket.

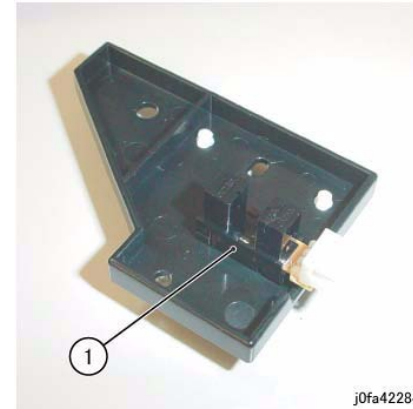


Figure 4 Removing the Rear Tamper Home Sensor (j0fa42284)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.9.6 Eject Shaft Assembly

Parts List on PL 22.9

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

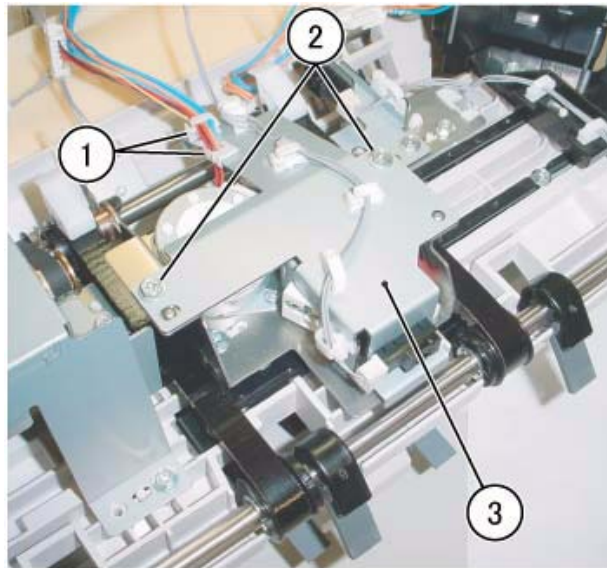
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

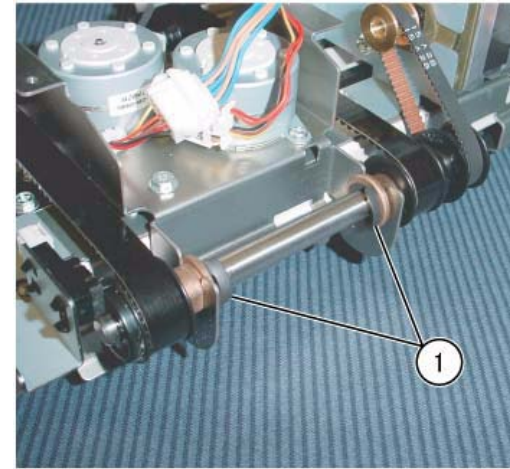
1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Bracket Assembly. (Figure 1)
(1)Release Clamps (2) and remove the wire.
(2)Remove Screws (2).
(3)Remove Bracket Assembly.



j0fa42272

Figure 1 Removing the Bracket Assembly (j0fa42272)

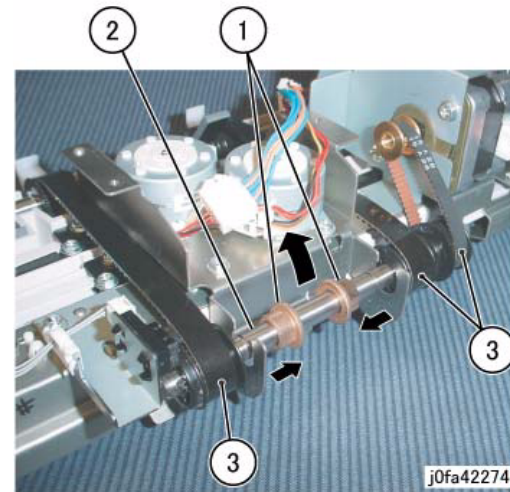
4. Remove the KL-Clips from the Eject Shaft. (Figure 2)
(1)Remove KL-Clips (2).



j0fa42273

Figure 2 Removing the KL-Clips (j0fa42273)

5. Remove the Eject Shaft from the Front/Rear Tamper Motor Assembly. (Figure 3)
(1)Move Bearings (2) in the direction of the arrow.
(2)Remove Eject Shaft in the direction of the arrow.
(3)Remove Belt from Pulley.



j0fa42274

Figure 3 Removing the Eject Shaft (j0fa42274)

Replacement

1. Reverse the removal procedure for replacement.
2. Install and align the Eject Belt with marks on the Pulleys. (Figure 7)

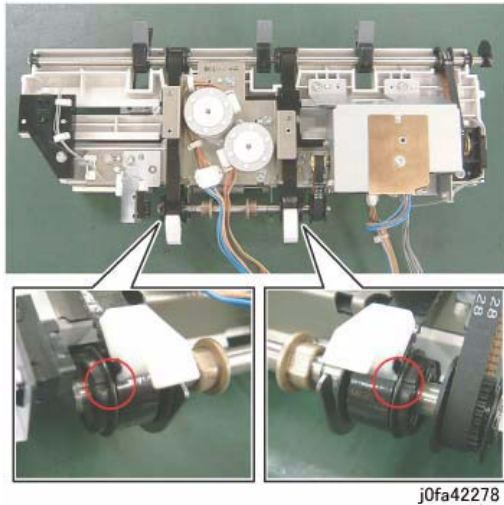


Figure 4 Installing the Eject Belt (j0fa42278)

REP 22.10.1 Front /Rear Tamper Motor Assembly

Parts List on PL 22.10

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

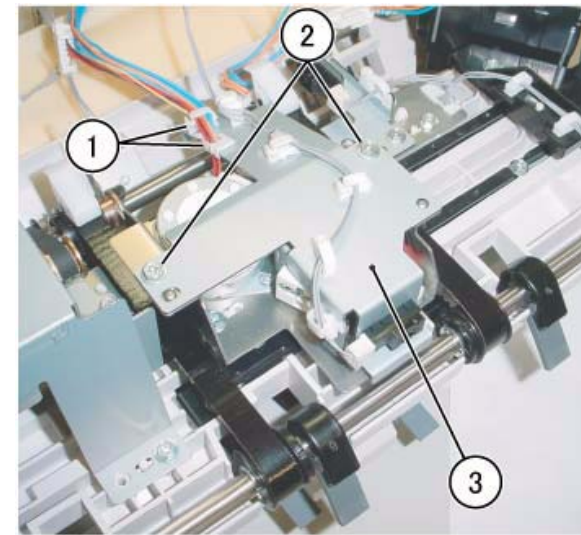
Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

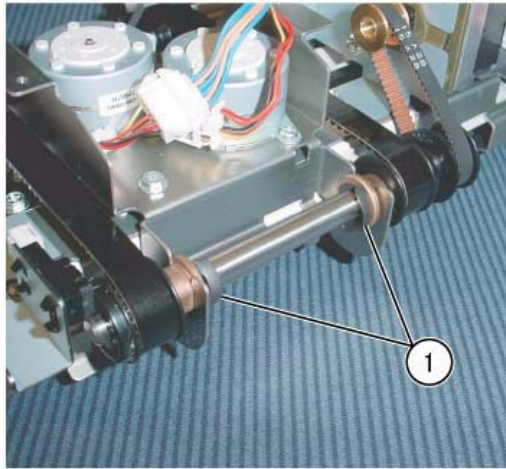
1. Remove the A-Finisher from the machine.
2. Remove the Compile Assembly. (REP 22.9.1)
3. Remove the Bracket Assembly. (Figure 1)
(1)Release Clamps (2) and remove the wire.
(2)Remove Screws (2).
(3)Remove Bracket Assembly.



j0fa42272

Figure 1 Removing the Bracket Assembly (j0fa42272)

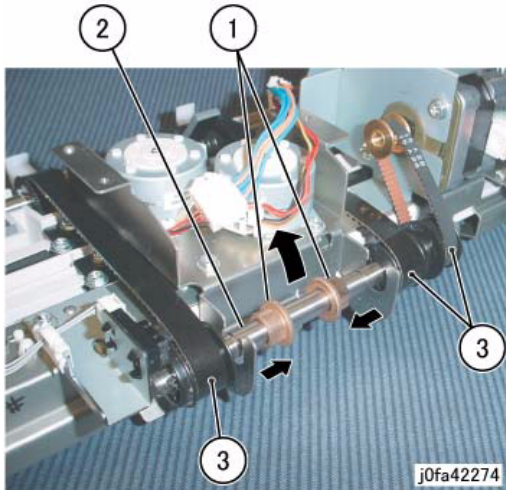
- Remove the KL-Clips from the Eject Shaft. (Figure 2)
(1)Remove KL-Clips (2).



j0fa42273

Figure 2 Removing the KL-Clips (j0fa42273)

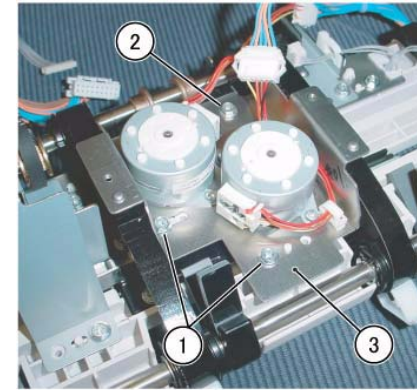
- Remove the Eject Shaft from the Front/Rear Tamper Motor Assembly. (Figure 3)
(1)Move Bearings (2) in the direction of the arrow.
(2)Remove Eject Shaft in the direction of the arrow.
(3)Remove Belt from Pulley.



j0fa42274

Figure 3 Removing the Eject Shaft (j0fa42274)

- Remove the Front/Rear Tamper Motor Assembly. (Figure 4)
(1)Remove Tapping Screws (2).
(2)Remove Screw.
(3)Remove Front/Rear Tamper Motor Assembly.

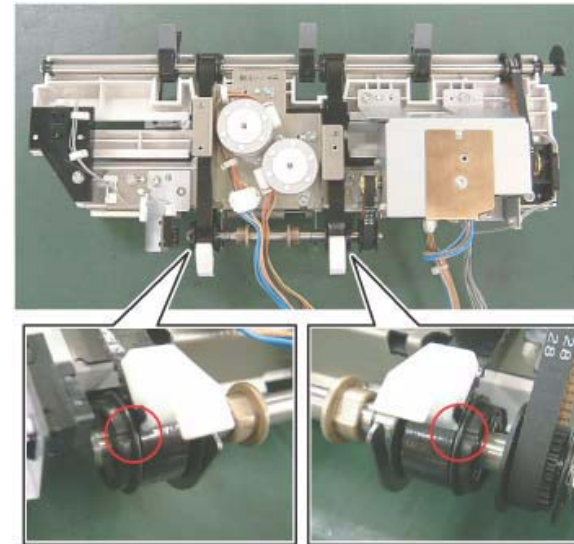


j0fa42285

Figure 4 Removing the Front/Rear Tamper Motor Assembly (j0fa42285)

Replacement

- Reverse the removal procedure for replacement.
- Install and align the Eject Belt with marks on the Pulleys. (Figure 5)



j0fa42278

Figure 5 Installing the Eject Belt (j0fa42278)

REP 22.10.2 Front Tamper Home Sensor

Parts List on PL 22.10

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.

[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Connector Bracket. (Figure 1)
 - (1)Release Clamps (3) and remove the wire.
 - (2)Disconnect Connectors (5).
 - (3)Remove Screws (2).
 - (4)Remove Connector Bracket.

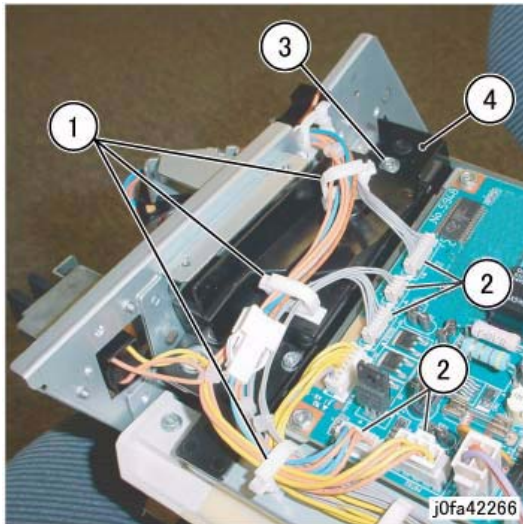


Figure 1 Removing the Connector Bracket (j0fa42266)

7. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

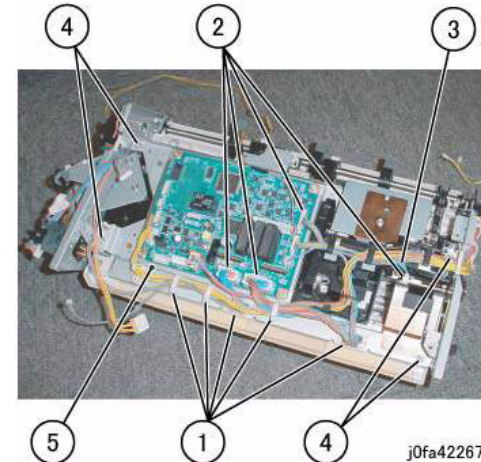


Figure 2 Removing the Bottom Plate (j0fa42267)

8. Remove the Front Tamper Home Sensor Assembly. (Figure 3)
 - (1)Remove Screw.
 - (2)Remove Front Tamper Home Sensor Assembly.

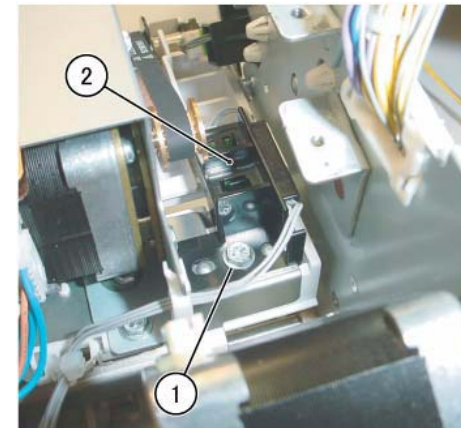


Figure 3 Removing the Front Tamper Home Sensor Assembly (j0fa42286)

9. Remove the Front Tamper Home Sensor Assembly. (Figure 4)
 - (1) Disconnect Connector.
 - (2) Remove Front Tamper Home Sensor Assembly.

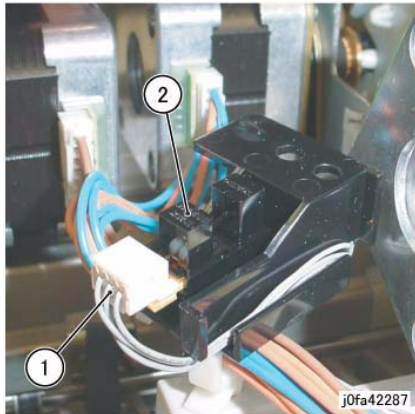


Figure 4 Removing the Front Tamper Home Sensor (j0fa42287)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.10.3 Eject Clamp Home Sensor

Parts List on PL 22.10

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Turn over the A-Finisher.
3. Remove the Bottom Cover. (PL 22.2)
4. Remove the Connector Bracket. (Figure 1)
 - (1) Release Clamps (3) and remove the wire.
 - (2) Disconnect Connectors (5).
 - (3) Remove Screws (2).
 - (4) Remove Connector Bracket.

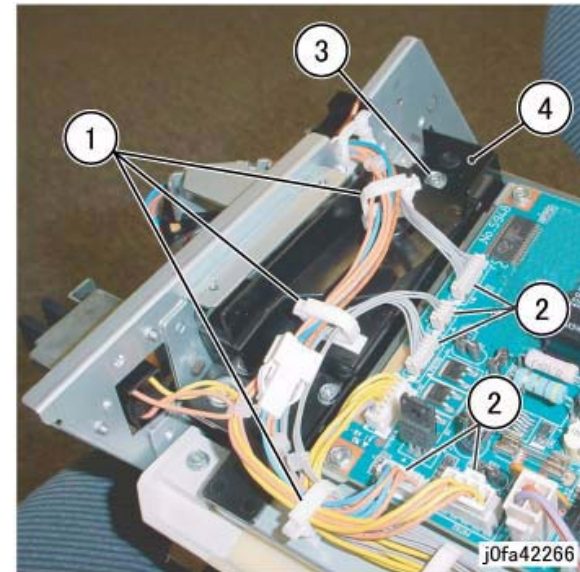


Figure 1 Removing the Connector Bracket (j0fa42266)

5. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

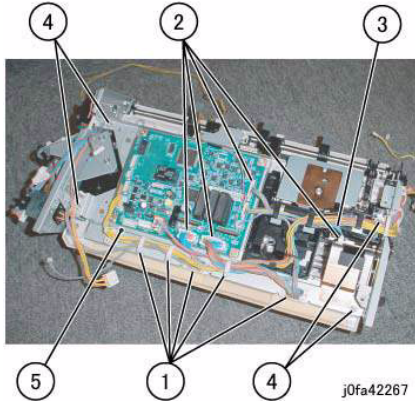


Figure 2 Removing the Bottom Plate (j0fa42267)

6. Remove the Eject Home Sensor. (Figure 3)
 - (1)Release Clamp and remove the wire.
 - (2)Disconnect Connector.
 - (3)Remove Eject Home Sensor from the bracket.

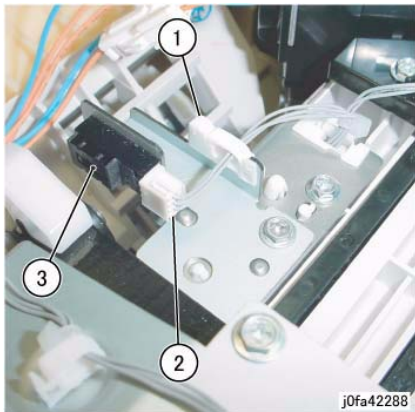


Figure 3 Removing the Eject Home Sensor (j0fa42288)

Replacement

1. Reverse the removal procedure for replacement.

REP 22.10.4 Stack Height Sensor

Parts List on PL 22.10

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Before turning OFF the power switch, note the following to prevent loss of customer data.
[with the FAX function]

Check that the "Job in Memory" lamp is off. Press the "Job Status" button and check that no job is in progress.

[with the Printer function]

Check that "Ready to print/send" is displayed on the Control Panel.

1. Remove the A-Finisher from the machine.
2. Remove the Inner Front Cover. (PL 22.1)
3. Remove the Rear Cover. (PL 22.1)
4. Turn over the A-Finisher.
5. Remove the Bottom Cover. (PL 22.2)
6. Remove the Connector Bracket. (Figure 1)
 - (1)Release Clamps (3) and remove the wire.
 - (2)Disconnect Connectors (5).
 - (3)Remove Screws (2).
 - (4)Remove Connector Bracket.

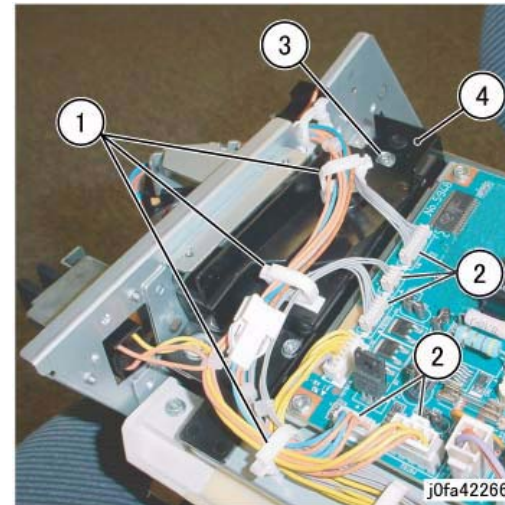


Figure 1 Removing the Connector Bracket (j0fa42266)

7. Remove the Bottom Plate. (Figure 2)
 - (1)Release Clamps (5) and remove the wire.
 - (2)Disconnect Connectors (8).
 - (3)Remove Wire from Hook.
 - (4)Remove Screws (4).
 - (5)Remove Bottom Plate.

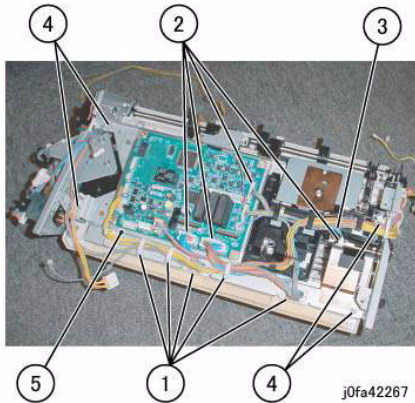


Figure 2 Removing the Bottom Plate (j0fa42267)

8. Remove the Stacker Tray (Figure 3)
 - (1)Release wires from Clamps (5)
 - (2)Disconnect the Connector
 - (3)Remove Screws (7)
 - (4)Remove the Stacker Tray

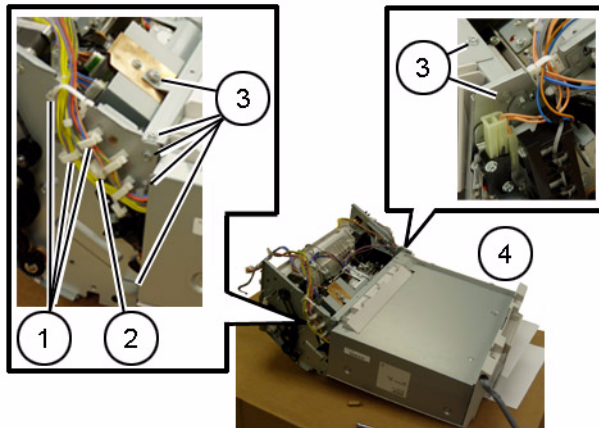


Figure 3 Removing the Stacker Tray (af422107)

9. Remove the Bracket Assembly. (Figure 4)
 - (1)Release Clamps (2) and remove the wire.
 - (2)Remove Screws (2).
 - (3)Remove Bracket Assembly.

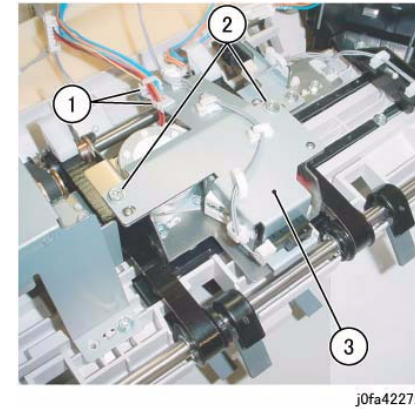


Figure 4 Removing the Bracket Assembly (j0fa42272)

10. Remove the Stack Height Sensor. (Figure 5)
 - (1)Remove Clamp.
 - (2)Release Clamps (4) and remove the wire.
 - (3)Disconnect Connector.
 - (4)Remove Stack Height Sensor from the bracket.

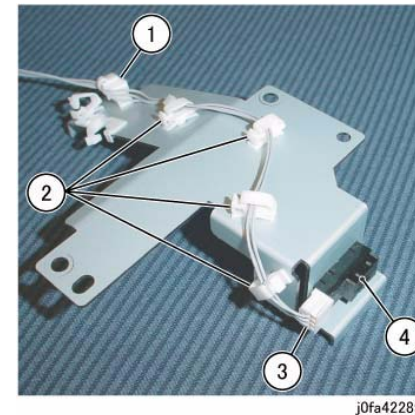


Figure 5 Removing the Stack Height Sensor (j0fa42289)

Replacement

1. Reverse the removal procedure for replacement.

ADJ 7.1.1 MSI (Bypass) Tray Guide Adjustment

Purpose

To set the maximum and minimum positions of the MSI Side Guide for MSI Paper Size Sensor detection using the NVM.

Adjustment

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - b. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).
2. Select **Adjustment/Others**.
3. Select **Tray 5 (Bypass) Guide Adjustment**.
4. Set the MSI Side Guide at the minimum position.
5. Select the minimum size position and press the Start button.
6. After the NVM sets the MSI Paper Size Sensor detection value, an OK or NG result will be displayed.
7. Set the MSI Side Guide at the maximum position.
8. Select the maximum size position and press the Start button.
9. After the NVM sets the MSI Paper Size Sensor detection value, an OK or NG result will be displayed.

NVM Settings for LEF Paper in the MSI Tray

When using the MSI and selecting LEF, change the NVM location 870-211 to the following values.

NOTE: The NVM location (870-211) for the MSI paper size default is A4 (NVM =5). This location is held in flash memory and will reset when the machine is PO/PO'ed.

Table 1 NVM location 870-211

Paper Size	NVM Value
A4 LEF	5
A3 LEF	6
8.5 x 11 LEF	19
11x17 LEF	24

ADJ 9.1.0 Toner Density Adjustment

Purpose

To set a suitable toner density for printing by determining the toner density in the Developer Unit from the difference between the Read value of the TC Sensor and the reference value, and by adjusting the toner level accordingly.

Adjustment

1. Place the Standard Test Pattern (82E13120) on the platen glass.
2. Enter UI Diagnostic Mode.
3. Enter **Max Setup** and select **Adjust Toner Density**.

NOTE: The difference between TC Target and TC Measured should be within +/- 30.

NOTE: If TC Measured is too high, the amount of toner used to create the patch is too low. Therefore use a positive number in the Select Quantity to increase the amount of toner in the developer.

NOTE: If TC Measure is too low, the amount of toner used to create the patch is too high. Therefore use a negative number in the Select Quantity to decrease the amount of toner in the developer.

NOTE: When the negative numbers are used in Select Quantity, the routine will print solid area coverage on several sheets of paper in order to tone down the developer.

4. Select Quantity, using the Up and Down buttons displayed for Magenta, Yellow, Cyan and Black. Adjust in 2 to 3 increments.
5. Press **Start** button to begin Toner Density Adjustment.
6. After the adjustment ends, the TC Measured value will be displayed.
7. Repeat steps 4 through 6 until all TC Measurements is within +/-30 of the TC Target
8. Exit Diagnostic Mode.
9. Place the Standard Test Pattern (82E13120) on the platen glass.
10. Make 5 copies of the test pattern and determine if Toner Density is properly adjusted.
11. Repeat this procedure until the Toner Density is satisfactory.

ADJ 9.1.1 IOT Image Registration

Purpose

The purpose of this adjustment is to properly align the ROS image to the paper / media, for all trays, all modes, print and copy. This adjustment must be completed prior to the IIT Lead Edge/ Side Edge Registration, and the DADF Lead Edge Registration.

Specification

- For A3 paper, the specifications are as follows:
 - The specification for lead edge registration is 10.0 +/- 0.5 mm.
 - The specification for side edge registration is 8.0 +/- 0.5 mm. (Both Sides)
- For 11x17" paper, the specifications are as follows:
 - The specification for lead edge registration is 10.0 +/- 0.5 mm.
 - The specification for side edge registration is 10.0 +/- 0.5 mm. (Both Sides)

Introduction

Initial set up should be done by following these 5 sequenced steps:

1. Tray Baseline

NOTE: The Tray Base line should only be performed as required to bring the machine back to the factory settings.

2. Tray 1 Lead Edge Set Up
3. Side Edge Adjustment, Trays 1, 2, 3, and MSI
4. IIT Alignment, Platen Glass
5. DADF Lead Edge / Side Edge Registration

NOTE: Copies / Prints are delivered to output Trays in different orientations depending on the job; example, Platen Glass, DADF, Finisher Un-collated or Collated/Stapled. Read and understand proper image viewing in each adjustment section.

NOTE: Label each image as it is removed from the output tray.

Mark the following references on each print:

- Tray 1, 2, 3 or MSI
- Color or B/W
- Mode, Bond, HW1 or HW2
- Lead Edge

NOTE: Lead Edge to Trail Edge Registration. Decrease the NVM Value to move the image towards the Lead Edge. (9 bits = 1 mm)

NOTE: Diagnostics must be exited for any Side Edge NVM changes to take effect. Lead Edge NVM changes take effect immediately.

NOTE: Positive numbers (bits) increases the image distance from the paper edge and negative numbers (bits) decreases the distance from the paper edge.

Tray Baseline

1. For 2TM machines Load all paper trays with 11X17"/A3 paper SEF.
For TTM machines load paper Tray 1 and MSI tray with 11x17"/A5 paper SEF and Tray 2 and Tray 3 with 8.5x11" paper LEF.

2. Disconnect the Network cable from the machine.
3. Enter UI Diagnostic Mode.
4. Set the following NVM's in Table 1, to the following default values.

Table 1 Default NVM Settings

Description	NVM	Default Values	Range
Lead Edge ALL	742-031	66	0 to 160
L/E Tray 1 - 3	742-039	80	0 to 160
L/E MSI	742-032	80	0 to 160
L/E Duplex	742-046	80	0 to 255
Side Edge Tray 1	742-002	0	-25 to 25
S/E MSI	742-009	0	-25 to 25
S/E Tray 2	742-022	3	-25 to 25
S/E Tray 3	742-023	0	-25 to 25
S/E Duplex Tray 1	742-018	0	-25 to 25
S/E Duplex Tray 2	742-019	0	-25 to 25
S/E Duplex Tray 3	742-020	0	-25 to 25

Tray 1 Lead Edge Set Up Adjustment

NOTE: To properly view printed image, remove from center output tray and **Flip Left to Right**.

1. Enter UI Diagnostic Mode.
2. Select the **Print Test Pattern** routine and enter 58.

NOTE: Ensure Tray 1 is loaded with 11x17 or A3 paper and Tray 1 is selected. The default tray is Tray 1.

3. Press the **Start** button.
4. Remove the copy from the center exit tray and position it as shown in Figure 1.

NOTE: The Trail Edge of the image is being measured to the Trail Edge of the paper and the entire image is shifted by any adjustments.

5. Refer to Figure 1. Measure and record the dimensions.

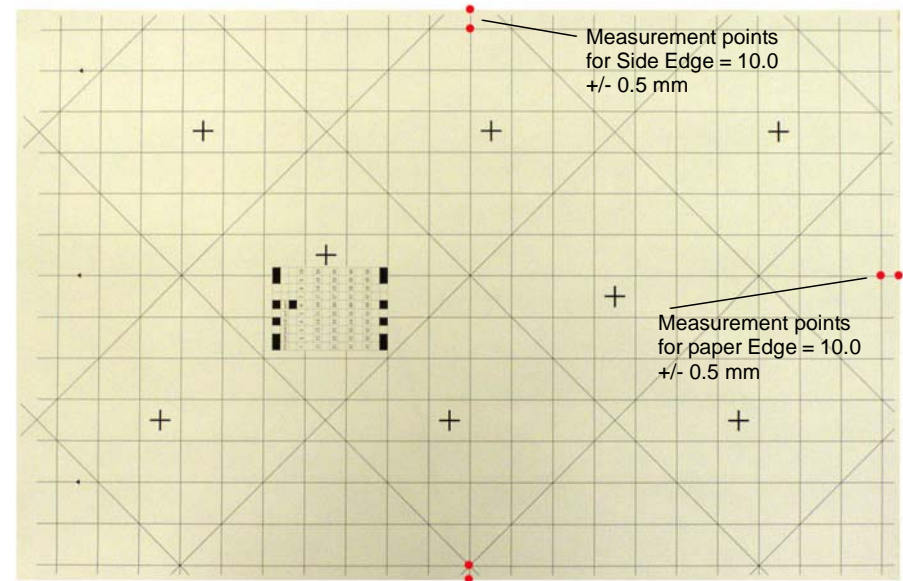


Figure 1 Measurement on Test Pattern #58

6. Determine the direction and the amount the image must be moved to achieve the 10.0 +/- 0.5mm dimension.

NOTE: 9 bits = 1 mm

7. Enter **NVM Read/Write** and enter 742-031, select **Confirm/Change**.
8. Enter the new NVM value into **Current Value**, and press the **Start** button.
9. Enter **Print Test Pattern** and enter number 58, press the **Start** button.
10. Repeat steps 6 through 9 until the correct Lead Edge measurement is achieved.

Lead Edge Adjustment Duplex Adjustment

1. Ensure Tray 1 is loaded with 11x17" or A3 paper, Tray 1 and Duplex is selected. The default tray is Tray 1.

NOTE: The default is Tray 1.

2. Ensure that ADJ 11.1.1, IIT Lead Edge/Side Edge Registration has been performed.

NOTE: Use the Test Pattern Original that was created in ADJ 11.1.1, IIT Lead Edge/Side Edge Registration or create a Test Pattern Original in the next step.

3. To create a test pattern original, use a plain white sheet of 11x17" paper and fold the sheet precisely in half lengthwise and width wise. Then with a straight edge, draw a straight line in the length wise crease and a straight line in the width wise edge. Write the words "Lead Edge" on the short edge that will be placed on the platen glass registration edge. (Figure 2)

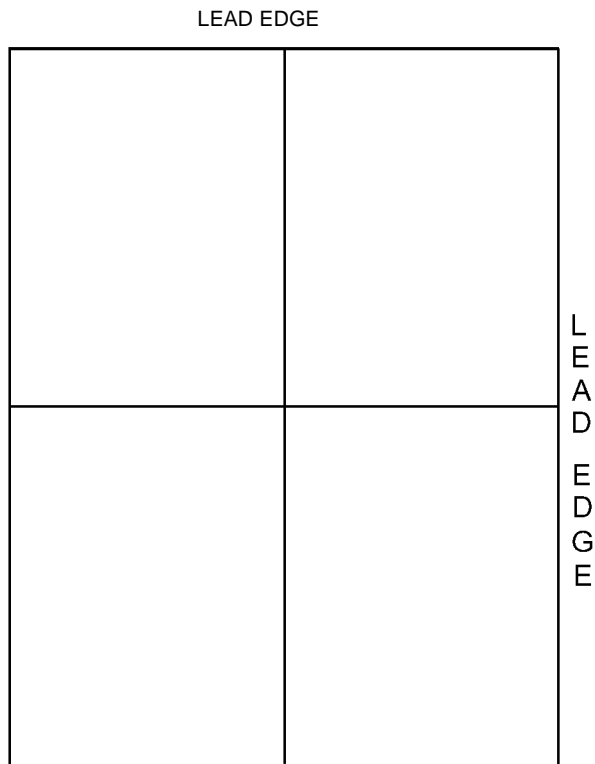


Figure 2 Creating a Test Pattern Original

4. Place the Test Pattern Original face down on the platen glass with the short edge against the left registration edge.
5. From the UI Copying screen, select Black, 1-2 sided, 100%, Tray 1 and press the **Start** Button.
6. After the first pass of the lens, place a small piece of paper under the Test Pattern Original, with the words "Side 2" written on it.
7. Press the **Start** button.
8. Remove the print from the center exit tray and position it as indicated in the following note.

NOTE: Duplex copies will be delivered to the center output tray face down. To view the duplex prints for registration analysis, remove the prints from the tray and flip it left to right. The words "Side 2" should be visible.

NOTE: The Trail Edge of the image is being measured to the Trail Edge of the paper and the entire image is shifted by any adjustments.

9. Fold the copy in half in both directions.

10. The printed lines should align with the folds.
11. If not, measure and record the direction and distance the image need to be moved to align them with the folds. (Figure 3)

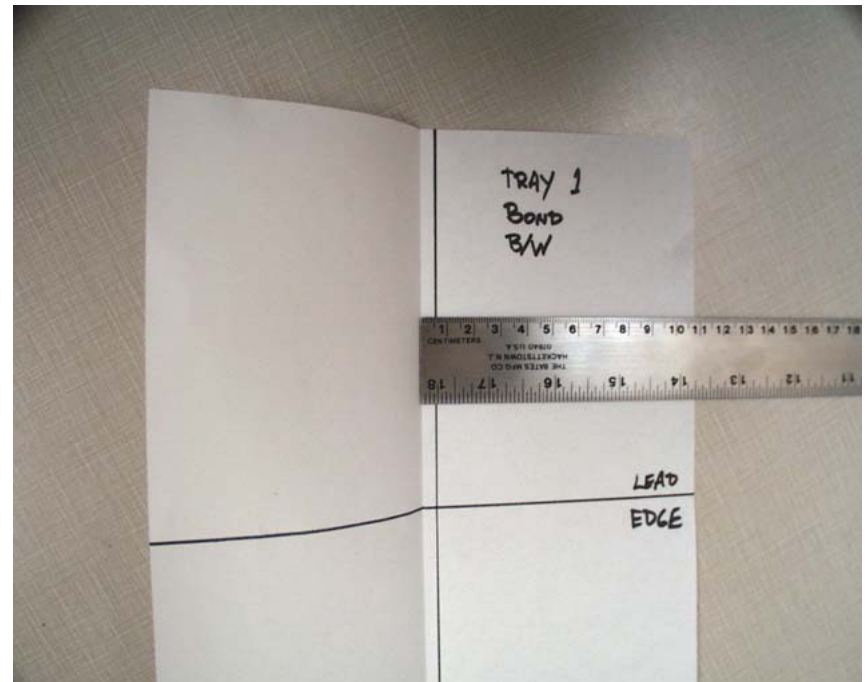


Figure 3 Measuring the distance to move the image

NOTE: 9 bits = 1mm

12. Enter NVM Read/Write and enter 742-046, then select Confirm/Change.
13. Enter the new NVM value into the Current Value, and press the **Start** Button.
14. Repeat steps 4 through 11 until the correct Lead Edge measurement is achieved.

Side Edge Registration

Purpose

To center the image from the side edges of the paper.

Optionally, the SE registration can be set for each tray individually; use the **Tray 1** through **MSI** buttons and repeat the check or adjustment for each tray.

Adjustment

NOTE: Exit and re-enter the **Diagnostic Mode** in order for the Side Edge Registration changes to take effect.

1. Enter UI Diagnostic Mode.
2. Enter **Print Test Pattern**, and print Test Pattern #58.

3. Select Paper Tray 1.
4. Select the Print Count and press the **Start** button.
5. The Side Edge Registration dimensions should be 10.0 +/- 0.5mm. See Figure 1.
6. Determine the difference between the measured dimensions and the desired specifications.
7. Calculate the number of NVM bits and the direction of movement.

NOTE: *Side Edge Registration. Increase the value to move the image toward the side edge of the paper. (Each bit = approximately .2mm).*

8. Enter **NVM Read/Write** and enter the NVM location for Side Edge Tray 1 (742-002) from Table 1.
9. Select **Confirm/Change**, and change the **Current Value** with the NVM bits determined.
10. Select **Confirm**.
11. Enter **Print Test Pattern** and print test pattern #58.
12. Select Paper Tray 1.
13. Select the Print Count and press the **Start** button.
14. Repeat steps 5 through 14 to achieve the 10.0 +/- 0.5mm dimension for the Side Edge.
15. Repeat steps 5 through 14 for Trays 2, and 3.
16. When using 11x17" paper in the MSI and selecting LEF, change NVM location 870-211 to 24.
17. Use Table 2 if using other size paper in the MSI for this procedure:

NOTE: *When the machine powers off then powers on, the NVM location 870-211 will return to setting 5 for A4 paper.*

Table 2 NVM location 870-211

Paper Size	Set NVM to:
A4 LEF	5
A3 LEF	6
8.5 x 11 LEF	19
11 x 17 LEF	24

18. Exit Diagnostics.

ADJ 9.1.2 Max Setup

Purpose

To conduct a check of the machine and set it up so that excellent copy quality can be consistently obtained by stabilizing the development potential and copy density.

Adjustment

Max Setup consists of several separate adjustments that should be performed in the following sequence:

1. IIT Calibration ADJ 9.1.8
2. Procon On/Off Print ADJ 9.1.10
3. Adjust Toner Density ADJ 9.1.0
4. TRC Adjustment ADJ 9.1.6

ADJ 9.1.6 TRC Adjustment

Purpose

CAUTION

Perform this adjustment only to correct a strong customer complaint. Altering the set points will affect both Print and Copy modes. Also, there is quite a bit of overlap among the low, medium, and high densities. For these reasons, it is recommended that this procedure not be used unless absolutely necessary. High density problems should be first investigated in IOT.

To adjust image quality (TRC) to meet the user's preference, by increasing or decreasing the center value of gradation correction for each (YMCK) color, in low density, medium density, and high density ranges.

Adjustment

1. Enter UI Diagnostic Mode.
2. Under the **Max Setup**, select **TRC Adjustment**.
3. Select the **TRC Adjust**.
4. Select the first color toner to be adjusted.

NOTE: *Adjusting the Low Density setting might cause background. It is best to leave the Low Density setting at "0".*

NOTE: *Using a large number like 30 to 50 will make very noticeable differences in toner density.*

NOTE: *Adjusting all the colors, YMC and K, will also make very noticeable changes.*

5. Adjust the medium and high density. Center value is "0", the range is from -128 to 127.
6. Press the **Start** button to save the setting and then select the next color toner to be adjusted.
7. Adjust the medium and high density.
8. Press the **Start** button to save each setting.
9. Exit the Diagnostic Mode and place the Standard Test Pattern (82E13120) on the platen glass.
10. Make 2 prints or copies; the changes are not implemented until the 2nd print is made.
11. Repeat steps 4 through 6 until the customer is satisfied with the image quality.

ADJ 9.1.7 Color-To-Color Registration

Purpose

This procedure is used to adjust the color-to-color registration, or Offset Displacement in the feed direction, by changing the NVM settings.

Adjustment

NOTE: Mis-registration between colors in the Cross feed Direction cannot be adjusted in NVM. Cross feed Mis-registration is a mechanical problem that can be addressed in the IQ8 Color-to-Color Mis-registration RAP.

NOTE: For Skew Mis-registration in the Feed Direction go to the IQ8 Color-to-Color Mis-registration RAP.

NOTE: Color-to-Color Mis-registration of 0.04mm between jobs is allowable.

NOTE: Only the K and Y colors can be adjusted for Color-to-Color mis-registration in the Feed Direction.

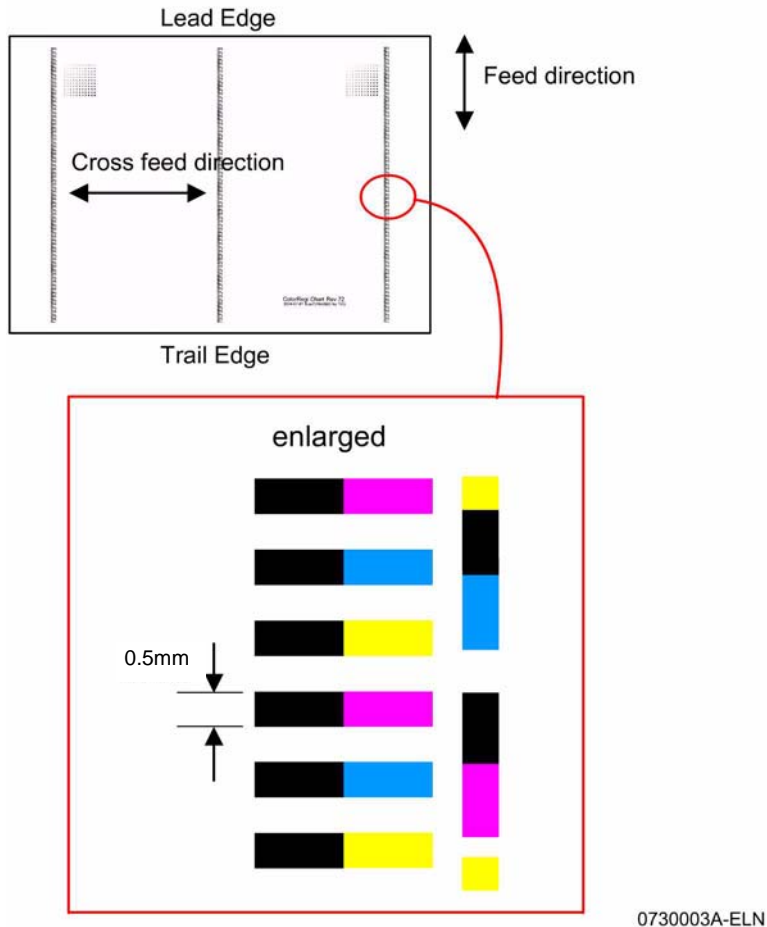


Figure 1 Ideal alignment of colors from test pattern #61

Color-to-Color Offset Displacement on the Lead Edge of the page

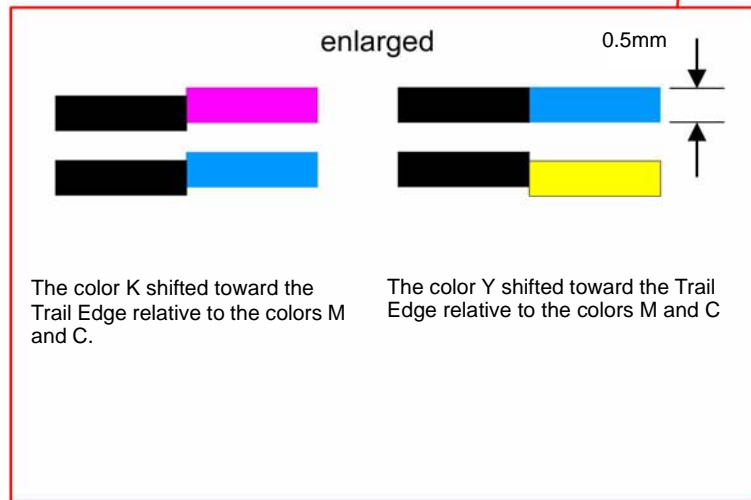
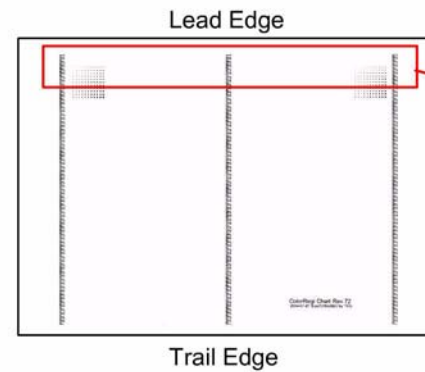
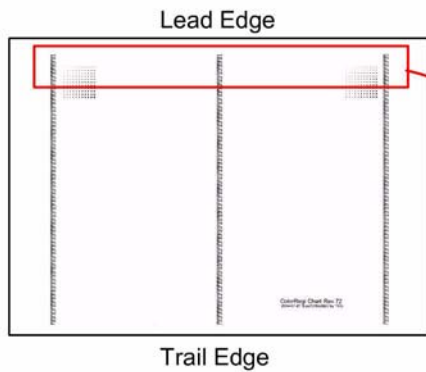
Table 1 Lead Edge NVM Settings

NVM	Default Setting	Setting Range
760-043	50,000	0 to 100,000
760-048	50,000	
760-053	53,000	
760-056	50,000	
760-061	50,000	
760-066	50,000	

NOTE: An NVM increment of 20,000 will move the K or Y color by 0.1mm.

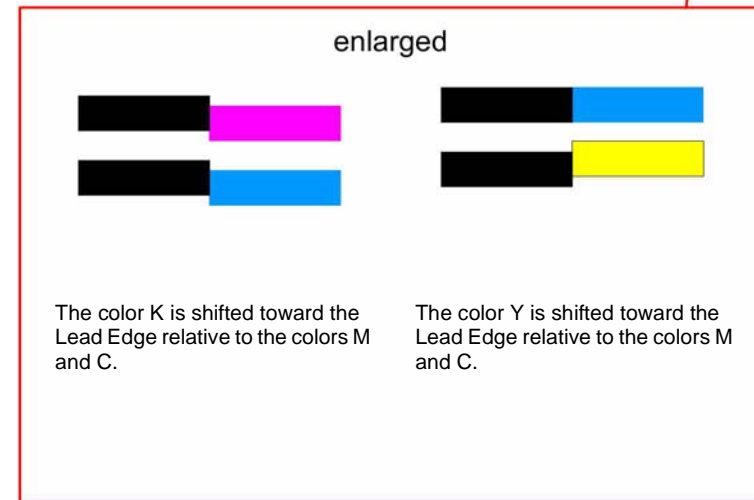
- If the K color is shifted to the trail edge relative to the colors M and C, increase the value of the following NVM's; (Figure 2)
 - 760-056
 - 760-061
 - 760-066
- If the K color is shifted to the lead edge relative to the colors M and C, decrease the value of the following NVM's; (Figure 3)
 - 760-056
 - 760-061
 - 760-066
- If the Y color is shifted to the trail edge relative to the colors M and C, increase the value of the following NVM's; (Figure 2)
 - 760-043
 - 760-048
 - 760-053
- If the Y color is shifted to the lead edge relative to the colors M and C, decrease the value of the following NVM's; (Figure 3)
 - 760-043
 - 760-048
 - 760-053

NOTE: If any NVM values were changed in the above procedures, print 4 consecutive pages, evaluate the Trail Edge color-to-color registration and proceed to the following steps.



0730004A-ELN

Figure 2 Shift of colors K or Y toward the Trail Edge



0730005A-ELN

Figure 3 Shift of colors K and Y toward the Lead Edge

Color-to-Color Mis-registration on the Trail Edge of the page

Table 2 Trail Edge NVM Settings

NVM	Default Settings	Setting Range
760-091	87	0 to 200 (100 or above is not recommended)
760-094	55000	0 to 100,000
760-101	20235	20139 to 20274

1. If the K color is shifted to the Lead Edge relative to the colors M and C, decrease the value of the following NVM; (Figure 4)

NOTE: An NVM increment of 16 will move the K color by 0.1mm.

- 760-101

2. If the K color is shifted to the Trail Edge relative to the colors M and C, increase the value of the following NVM; (Figure 5)

NOTE: An NVM increment of 16 will move the K color by 0.1mm.

- 760-101

3. If the Y color is shifted to the Trail Edge relative to the colors M and C, decrease the value of NVM 760-091 and increase the value of NVM 760-094. (Figure 4)

- For the NVM 760-091, a decrease of 9 will move the Y color by 0.1mm.
- For the NVM 760-094, an increase of 20,000 will move the Y color by 0.1mm.

4. If the Y color is shifted to the Lead Edge relative to the colors M and C, increase the value of NVM 760-091 and decrease the value of NVM 760-094. (Figure 5)

- For the NVM 760-091, an increase of 9 will move the Y color by 0.1mm.
- For the NVM 760-094, a decrease of 20,000 will move the Y color by 0.1mm.

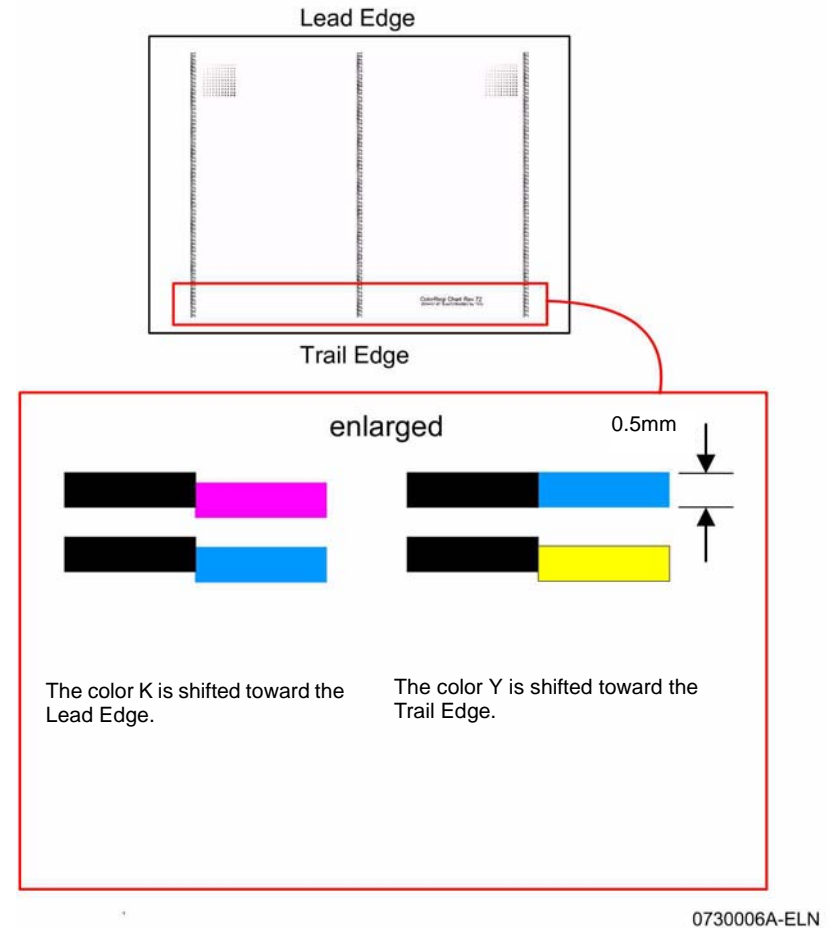
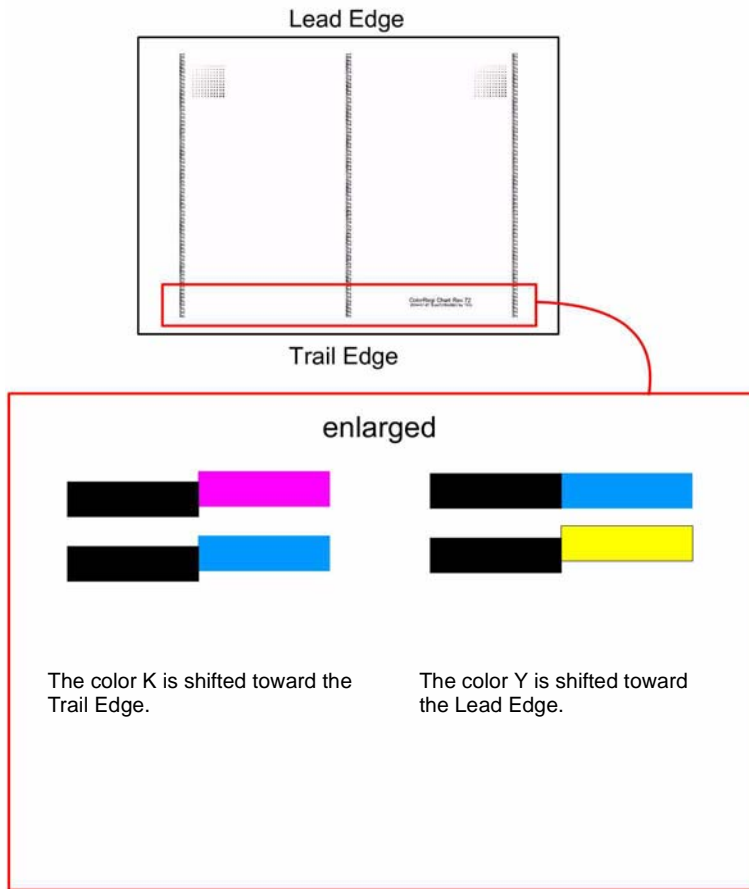


Figure 4 Shift of colors K and Y



0730007A-ELN

Figure 5 Shift of colors K and Y

ADJ 9.1.8 IIT Calibration

Purpose

The IIT Calibration is accomplished in two stages, White Reference Adjustment and CCD Calibration.

- The White Reference Adjustment calculates the White Reference Correction using white paper placed on the platen glass (reflectance difference from true white), and machine NVM value for "True White".
- CCD Calibration uses the standard test pattern, 82E13120 to calibrate the sensitivity of the CCD. It looks at the 5 squares in the upper center of the test pattern as a reference to do the calibration.

NOTE:

White Reference Adjustment

Adjustment

1. For the White Reference Check, use Xerox Digital Color Xpressions+ or Colortech + paper. Result values for RGB should be approximately 130 to 145.
 - Digital Color Xpressions+ 24 lb. paper = 98 Brightness rating (90 gsm).
 - Colortech + paper = (90 gsm).
2. Place 10 sheets of A3 or 11 x 17" (short edge lead) clean white paper on the Document Glass.
3. Enter the UI Diagnostic Mode.
4. Enter Max Setup, IIT Calibration, White Reference Adjustment.
5. Press the **Start** on the screen.
6. Result values for RGB should be in the range of 130 to 145. (Table 1)

Table 1 White Reference

R	135
G	136
B	138

7. If the values are within range proceed to the CCD Calibration Adjustment below.
8. If the values are out of range continue with this procedure.

CAUTION

If the Lens Kit was replaced, the Optical Axis Alignment (ADJ 9.1.9) must be performed.

9. If the Lens Kit was replaced, go to ADJ 9.1.9.
10. NVM 715-XXX is set to a 1. (With DADF, the lamp will park to the left.)
11. Make sure you have placed 10 sheets of 11 x 17 digital color Xpressions+ paper against the registration edge of the platen glass (98 Brightness).
12. Clean the Optics:
 - a. Switch off the power and allow the Exposure Lamp to cool off.
 - b. Using the optical Cleaning Cloth, clean the front and rear of the Document Glass, the White Reference Strip, Reflector, and Mirrors.

NOTE: The white reference strip under the registration guide on the underside of the platen glass.

- c. Clean the Exposure Lamp with a clean cloth and Film Remover.
 - d. Clean the Lens with Lens and Mirror Cleaner and lint free cloth.
13. If necessary, troubleshoot the Exposure Lamp, Lamp Ballast PWB, or IIT PWB.

CCD Calibration

Adjustment

1. Enter the UI Diagnostic Mode.
2. Enter Max Setup, IIT Calibration, CCD Calibration.
3. Place the Standard Test Pattern 82E13120 on the Document Glass with the lead edge to the left.

NOTE: If the Standard Test Pattern 82E13120 is not used, the Result for Pcon and Scan will be NG.

4. Reflection values for YMCK vs. RGB should be as follows:
 - a. Values for “X” in Table 2 should be between 200 and 250.
 - b. The higher the number, the less reflectance. K is always higher than C, M or Y.

Table 2 Values for “X” 200 to 250

Reflection Ratio			
	R	G	B
Y			X
M		X	
C	X		
K	X	X	X
Result			OK

5. The b* Measurement should be within 10 bits (+/-) of the b* Target.

Table 3 b* Calibration Coefficient Check

	PCON	SCAN
b* coefficient	3	3
b* Patch Value (measurement)	226	214
b* Normal Value (target)	225	223
Result	OK	OK

6. If values for “X” in Table 2 are less than 200 or b* target **Results** Table 3 is **NG**, perform the following checks or troubleshoot.
 - Make sure test pattern 82E13120 is being used and that the test pattern is clean and free of defects.
 - Make sure the test pattern is position with the L.E. toward the left of the Platen Glass and registered.

- Clean both sides of the Document Glass, Document Cover, White Reference Strip, Reflector, and Mirrors.
- Clean the Lens with Lens and Mirror Cleaner and lint free cloth.
- Clean the Exposure Lamp with a clean cloth and Film Remover.
- Troubleshoot the Exposure Lamp, Lamp Ballast PWB and IIT PWB.
- Replace the Lens Pan Assembly if necessary.

NOTE: Do not select Optical Axis Calibration unless the Lens Pan Assembly is replaced.

ADJ 9.1.9 Optical Axis Alignment

Purpose

The purpose of this adjustment is to align the CCD with the lens. This procedure should only be performed if the lens or CCD is replaced, or if the documentation specifically directs.

Check

1. Install the Platen Glass.

CAUTION

Stray light will adversely affect the check. If there is significant ambient light around the machine (especially fluorescent light), open the platen cover as little as required to start the scan, and/or shroud the machine with a drop cloth, in order to keep as much stray light as possible away from the Lens and CCD.

2. Ensure the document cover or DADF is fully raised and that there is nothing on the platen glass.
3. Enter UI Diagnostic Mode. Raise the platen cover. Select **Max Setup, IIT Cal.**, select the **Optical Axis Correction** and press **Start**.
4. Check the results in the **Optical Axis Set Results** box. If **OK** is displayed in the **Result** box, the check is good. Adjust the IIT Calibration (ADJ 9.1.8).
5. If the tool displays **NG**, perform the Adjustment.

Adjustment

1. Place an index mark on the barrel of a 5.5mm nut driver. The following figure shows the tool and the adjusting nuts. (Figure 1)

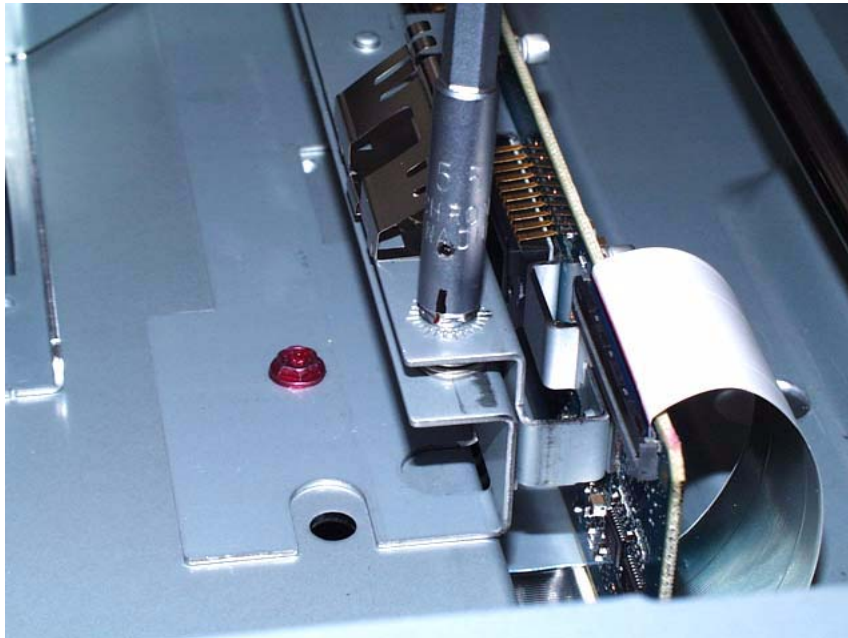


Figure 1 Tool and Front Optics Adjusting Nut

2. Check the results in the **Front Nut Correction Angle** and the **Rear Nut Correction Angle** box. The values displayed indicate the amount and direction of the correction required:
 - + means rotate clockwise
 - - means rotate counterclockwise
 - The amount of correction is displayed in degrees. Each division around the nut represents 15 degrees (divide the displayed value by 15 to get the number of divisions). If a value higher than 990 is displayed, this may indicate that insufficient light is entering the CCD. Make sure that the Lens and Platen Glass are clean.
3. Remove the Platen Glass and the Optics cover. (Figure 2)

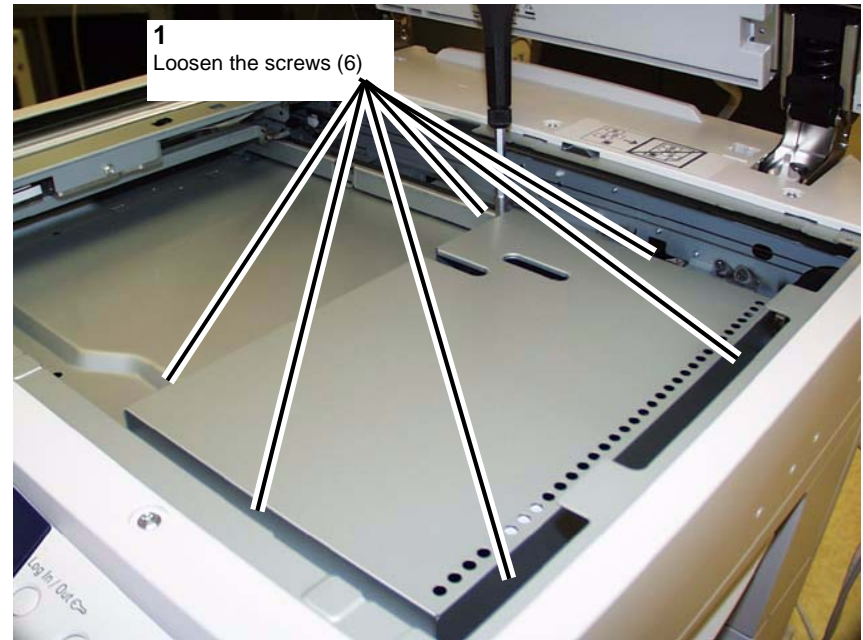


Figure 2 Removing the Optics Cover

4. Make the indicated correction for both the front and rear screws,
5. Reinstall the Platen Glass and the Optics cover, then select on **Start** on the screen.
6. Repeat steps 2 and 3 until **OK** is displayed.
7. Reinstall the Optics Cover and reinstall the Platen Glass.
8. Adjust the IIT Calibration (ADJ 9.1.8).

ADJ 9.1.10 Procon ON/OFF Print

Purpose

The purpose of this routine is to determine the proper functioning of the ADC Sensor, ADC Patch, ADC Shutter open and close, ADC Mini Setup, TC Patch, and the environment Temperature and Humidity. These machine parameters must be functioning properly before Max Setup can be run.

Procon is Process Control and Process Control on this product is the Tone Reproduction Control (TRC).

Adjustment

1. Enter UI Diagnostic Mode.
2. Select **Max Setup** and select **Procon "On/Off" Print**.
3. Select **Procon "ON" Print**.
4. Press the **Start** button.
5. When the routine is completed, check the print out test pattern (Test Pattern # 53)
Ensure that all colors (YMCK) have printed and Process Black is present in two places.
(Figure 1)

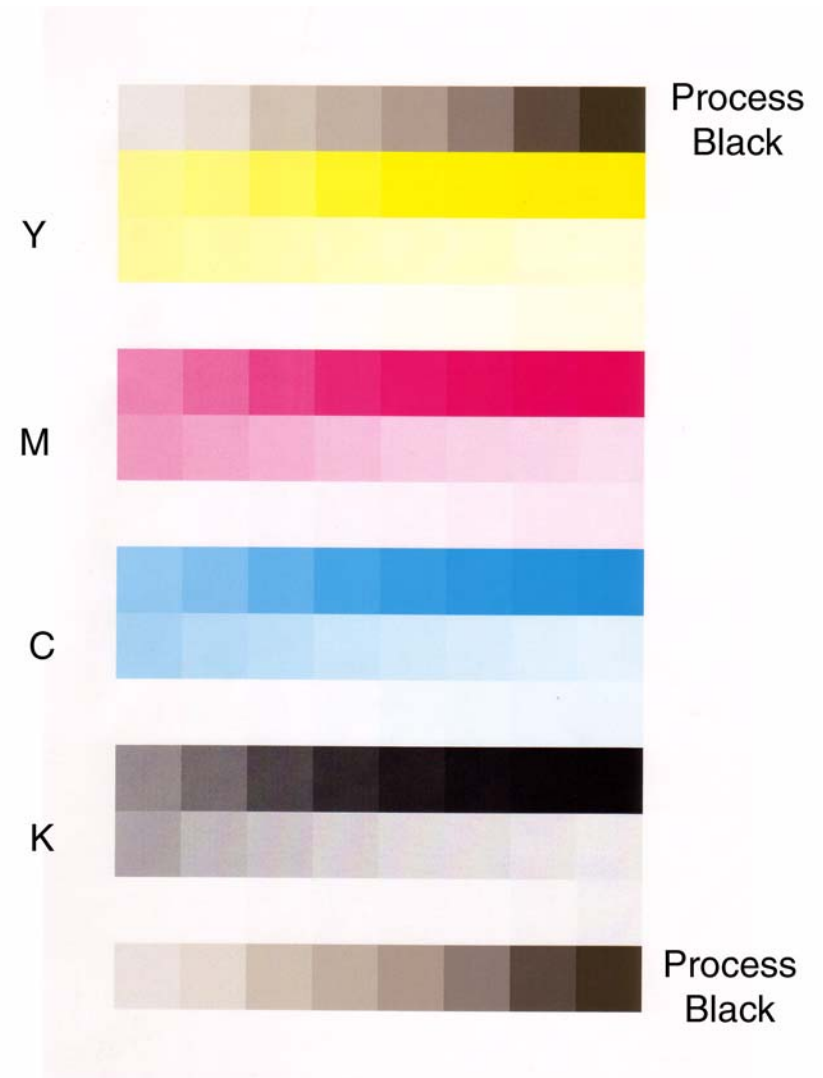


Figure 1 Checking the test pattern for YMCK and Process Black printout.

6. Scroll through the **Procon “ON” Print** items list, find and check that the Items in table 1 are all **OK**.
7. If any items indicate **NG** (Fail), check for failed components: Return to Call Flow and determine component failure, etc. High Voltage Power Supply, ADC Assembly, Developer Housing, MCU PWB, Photoreceptor, bad Developer Bias.

NOTE: Most values in this table are for reference only. Actual values will vary.

Table 1 PRO CON “On Print”

PRO CON On Print	Yellow	Magenta	Cyan	Black (K)	Remarks
Target ADC - H	385	340	400	165	Compare the Target ADC - H with the ADC Measurement - H. The Measurement should be within 30 bits of the Target. (Ignore ADC LS 1 Measurement - H and the ADC LS 2 Measurement -H) If not See Corrective Action 1
ADC Measurement - H	368	364	395	166	
ADC LS 1 Measurement - H	455	402	484	213	
ADC LS 2 Measurement - H	352	254	307	127	
Target ADC - M	680	605	645	475	Compare the Target ADC - M with the ADC Measurement - M. The Measurement should be within 30 bits of the Target. (Ignore ADC LS 1 Measurement - M and the ADC LS 2 Measurement -M) If not See Corrective Action 1
ADC Measurement - M	656	642	663	500	
ADC LS 1 Measurement - M	710	675	718	543	
ADC LS 2 Measurement - M	635	521	586	465	
Target ADC - L	915	910	915	845	Compare the Target ADC - L with the ADC Measurement - L. The Measurement should be within 30 bits of the Target. (Ignore ADC LS 1 Measurement - L and the ADC LS 2 Measurement -L) If not See Corrective Action 1
ADC Measurement - L	923	931	937	848	
ADC LS 1 Measurement - L	041	951	965	866	
ADC LS 2 Measurement - L	831	839	835	705	
ADC Patch Fail	OK	OK	OK	OK	If NG see Corrective Action 8
ADC Sensor Fail	OK	-	-	-	If NG see Corrective Action 3
ADC Shutter open Fail	OK	-	-	-	If NG see Corrective Action 2
ADC Shutter close Fail					
ADC Mini setup Fail	OK	OK	OK	OK	If NG see Corrective Action 9
Charge Bias Voltage setting Common	715	715	715	715	If NG see Corrective Action 10
Illumination Settings	396	327	321	409	
Maximum Illuminations	673	673	673	673	
Bias Settings	575	580	580	565	
Target TC	433	423	417	281	Compare the TC Target with the TC Measurement value. The Measurement should be within 30 bits of the Target. If not see Corrective Action 4
TC Measurement	400	332	341	266	
TC Patch Fail	OK	OK	OK	OK	If NG see Corrective Action 5
Temperature	26	-	-	-	
Humidity	52	-	-	-	
Temperature Fail	OK	-	-	-	If NG see Corrective Action 6
Humidity Fail	OK	-	-	-	If NG see Corrective Action 7

8. Run Pro Con "Off" and compare the two prints.

Table 2 PRO CON "Off"

PRO CON On Print	Yellow	Magenta	Cyan	Black (K)	Remarks
Target ADC - H	385	340	400	165	
ADC Measurement - H	381	344	403	167	
ADC LS 1 Measurement - H	474	418	500	212	
ADC LS 2 Measurement - H	376	259	336	132	
Target ADC - M	680	605	645	475	
ADC Measurement - M	669	636	659	509	
ADC LS 1 Measurement - M	723	680	726	544	
ADC LS 2 Measurement - M	646	552	612	474	
Target ADC - L	915	915	915	845	
ADC Measurement - L	920	923	932	852	
ADC LS 1 Measurement - L	943	948	971	860	
ADC LS 2 Measurement - L	914	889	908	836	
ADC Patch Fail	OK	OK	OK	OK	
ADC Sensor Fail	OK	-	-	-	
ADC Shutter open Fail	OK	-	-	-	
ADC Shutter close fail	OK	-	-	-	
ADC Mini setup Fail	OK	OK	OK	OK	
Grid Voltage setting Common	715	715	715	715	
Illumination Settings	433	347	335	423	
Maximum Illuminations	674	674	674	674	
Bias Settings	570	580	580	562	
Target TC	432	423	417	282	
TC Measurement TC Patch Fail	411	365	366	260	
Temperature	26	-	-	-	
Humidity	51	-	-	-	
Temperature Fail	OK	-	-	-	
Humidity Fail	OK	-	-	-	

Corrective Action 1

Corrective Action

- Procon Area
 - ADC** (Automatic Density Control) Target vs. Measured more than 30 bits off.
- Prints And What To Look At.
 - internal test pattern 53, Low, mid and high patches.
- Corrective Action
 - If the problem is in high density patches, then troubleshoot IOT problems.
 - If the problem is only in low and mid density patches then perform TRC Adjustment and adjust low, mid and high starting with low density.

NOTE: Center value is "0". Range is -128 to 127

Corrective Action 2

Corrective Action

- Procon Area
 - ADC** (Automatic Density Control) Shutter Open Fail (NG) or ADC Shutter Close Fail (NG).
- Prints And What To Look At.
 - (Nothing to look at)
- Corrective Action
 - Check the connections to the ADC Sensor.
 - Check the operation and condition of the Shutter.
 - If OK, replace the ADC/MOB/Temp/Humidity sensor bar. (PL 11.1)

Corrective Action 3

Corrective Action

1. Procon Area
 - **ADC** (Automatic Density Control) Fail (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Check the connections to the ADC Sensor.
 - Check the operation and condition of the Shutter.
 - If OK, replace the ADC/MOB/Temp/Humidity sensor bar. (PL 11.1)

Corrective Action 4

Corrective Action

1. Procon Area
 - **TC (Toner Concentration)** Target vs. Measured more than 30 bits off.
2. Prints And What To Look At.
 - internal test pattern 53, Low, mid and high patches.
3. Corrective Action
 - Ensure that toner cartridges are not empty.
 - Perform Adjust Toner Density.
 - If the problem is in high density patches, then troubleshoot IOT problems.
 - If the problem is only in low and mid density patches then perform TRC Adjustment and adjust low, mid and high starting with low density.

NOTE: Center value is "0". Range is -128 to 127

Corrective Action 5

Corrective Action

1. Procon Area
 - **TC** (Toner Concentration) Patch Fail (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Ensure that toner cartridges are not empty.
 - Perform Adjust Toner Density.
 - If the problem is in high density patches, then troubleshoot IOT problems.
 - Observe Developer Mag Brush for defects or missing Mag Brush in all colors.

Corrective Action 6

Corrective Action

1. Procon Area
 - **Temp** (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action

- Failure occurs below 32 degrees F (0 degrees C) or above 140 degrees F (60 degrees C).
- Check connections to the Temperature Sensor.
- If the connections are good and the temperature is within spec then replace the ADC/MOB/Temp/Humidity Sensor Bar.

Corrective Action 7

Corrective Action

1. Procon Area
 - **Humidity** (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Failure occurs when the humidity is at 0% or above 105%.
 - Check connections to the Humidity Sensor.
 - If the connections are good and the humidity is within spec then replace the ADC/MOB/Temp/Humidity Sensor Bar.

Corrective Action 8

Corrective Action

1. Procon Area
 - **ADC Patch Fail** (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Check ADC Target vs. Measured, ADC Sensor fail, ADC shutter fail and ADC mini setup fail.
 - Check connections to the ADC Sensor.
 - Check the operation and condition of the shutter and Clean if necessary.
 - Replace the ADC/MOB/Temp/Humidity Sensor Bar. (PL 11.1)

Corrective Action 9

Corrective Action

1. Procon Area
 - **ADC Mini Setup Fail** (NG).
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Check connections to the ADC Sensor.
 - Check the operation and condition of the shutter and Clean if necessary.
 - Replace the ADC/MOB/Temp/Humidity Sensor Bar. (PL 11.1)
 - Check for failed components:
 - HVPS (PL 11.1)
 - Developer Housing(s) (PL 5.2) or bad Developer Bias.
 - MCU PWB (PL 11.1)
 - Photoreceptor Machine Consumables

Corrective Action 10

Corrective Action

1. Procon Area
 - **Charge Bias Voltage Setting**
2. Prints And What To Look At.
 - (Nothing to look at)
3. Corrective Action
 - Check the connections to the Developer Bias Brush and the HVPS.
 - If OK, replace the HVPS. (PL 11.1)

ADJ 9.2.1 Edge Erase Value Adjustment

Purpose

To correct the Lead, Tail Edge and both Side Edge (rear/front) erase values.

NOTE: The IOT Lead Edge/Side Edge Registration must be adjusted.

Check

1. Enter UI Diagnostic Mode.
2. Select **NVM Read/Write**.
3. Set Chain-Link No. 780-066 (Image Area) to 0.
4. Specify a tray with paper. Make a black copy with the Platen Cover open.
5. Check that the white sections of the Lead, Tail and Side Edges are 2mm.

Adjustment

1. Enter UI Diagnostic Mode.
2. Select **NVM Read/Write**.
3. Adjust the measured values using the following NVM so that the measured values fall within the specifications (2mm).

If the setting value is increased, the erase value increases.

Table 1 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
780-066	LEAD EDGE ERASE ADJUSTMENT	40	40	50	1mm
780-067	TRAIL EDGE ERASE ADJUSTMENT	20	20	30	1mm
780-068	SIDE EDGE ERASE ADJUSTMENT	10	20	30	1mm

NOTE: A value of 10 moves the image 1mm.

4. After adjustment, make another black copy without using any originals and leaving the Platen Cover open.
5. Repeat the procedure until the measured values of the Lead (A), and Side (B) Edges fall within the specifications.

ADJ 9.3.1 Software Loading and Upgrading

Purpose

The purpose of this procedure is to enable updating the machine software (ESS, FAX, IISS, and IOT) or when reinstallation of the software is required due to a failure. The PWS Diagnostic tool will be used for this procedure.

CAUTION

This procedure is generic in nature and is intended as an overview only. Always follow the instructions that come with the software. There may be additional steps added, or other special requirements that vary from version to version.

Setting up the PWS

1. Using the instructions on the pull out sheet that comes with the system software disc, load the WC 7132 software download tool on you PWS.
2. Make a copy of the color test pattern 82E13120 and check for Image Quality problems. Resolve any problems before performing the software loading.
3. Print a copy of the Systems Settings List.
4. Switch off the WC 7132.
5. Disconnect the RJ45 Network Connector to the customer's network.
6. Connect the PWS to the USB 1.1 port on the WC 7132.

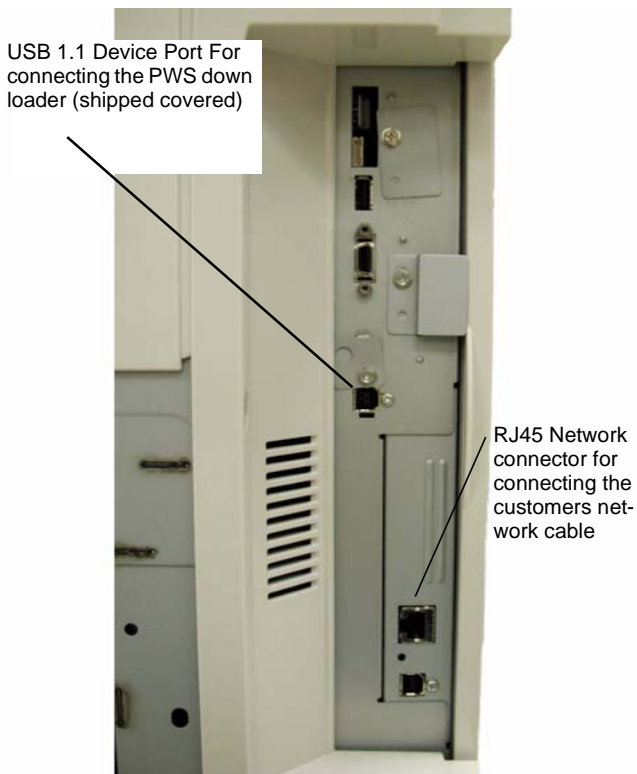


Figure 1 Where to connect the PWS and Network cables

7. Switch on the WC 7132.

NOTE: The first time the WC 7132 download tool is used on the PWS, the prompt to install the Fuji Gen 2 driver might appear. Select "Install the Software Automatically" radio button and select "Next". Follow the screen prompts to install the driver. If the message "Found new hardware" appears, follow the prompts.

8. Go to **Product Tools** and start the **WC 7132 PWS Diagnostic Tool**.

NOTE: The actual instructions that accompany the software may have additional steps here, such as a list of NVM values that need to be recorded. Record those values.

9. When the tool is connected, select **Enter Diagnostics**.
10. Select **dc351**, ensure that **All** is selected.
11. Select **Save Machine Settings**. When the upload is complete, select **File** and **Exit** the Diagnostics Tool.
12. When prompted, save the Machine Data file.
13. Switch off the WC 7132.
14. Switch on the power while pressing the Power Saver switch. Download Mode will be displayed on the UI.

NOTE: A new hardware wizard may appear and you will be asked to install the "Fuji Xerox Firmware Download Device" on you PWS. Select "Cancel".

15. Start the WC 7132 PWS Diagnostic Tool. When connected select **Enter Software Download**.

NOTE: The actual instructions will list the files that need to be selected.

- Generally the Add All 1 File selection is used when upgrading to a newer version of the software. Use the Add All 1 File (Postscript) selection if a PostScript module is installed.

NOTE: Verify the presence of the PostScript module from the System Settings List under Software Version. If the Statement "Controller + PS ROM" appears, the PostScript module is installed. Alternatively you can remove the ESS cover and verify if a PostScript module is installed on the Printer PWB.

- If there is no PostScript module use the Add All 1 File (Standard).
- If installing software at the same version, you must use individual files as the Add All 1 File option will not overwrite a file of the same version.

16. Select the appropriate file(s) for download.
17. Select Start Download... the screen will display **Processing**. (Lead time is approximately 15 minutes).
18. When the download is completed the machine will reboot. Exit the PWS tool.
19. Perform any additional steps or procedures per the actual instructions that accompany the software.
20. Print a copy of the new Systems Settings List to see if the SW was upgraded.
21. Reconnect RJ45 Network connector to the customer's network.

ADJ 11.1.1 IIT Lead Edge/Side Edge Registration

Purpose

To set the home position for the IIT Lead Edge (Slow Scan) direction/IIT Side Edge (Fast Scan) direction.

NOTE: The IOT Lead Edge/Side Edge Registration must be adjusted before proceeding with this procedure.

Check

1. To create a Test Pattern Original, use a plain white sheet of 8.5x11" paper and fold the sheet precisely in half lengthwise and width wise. Then with a straight edge draw a straight line in the lengthwise crease and a straight line in the width wise crease. (Figure 1)

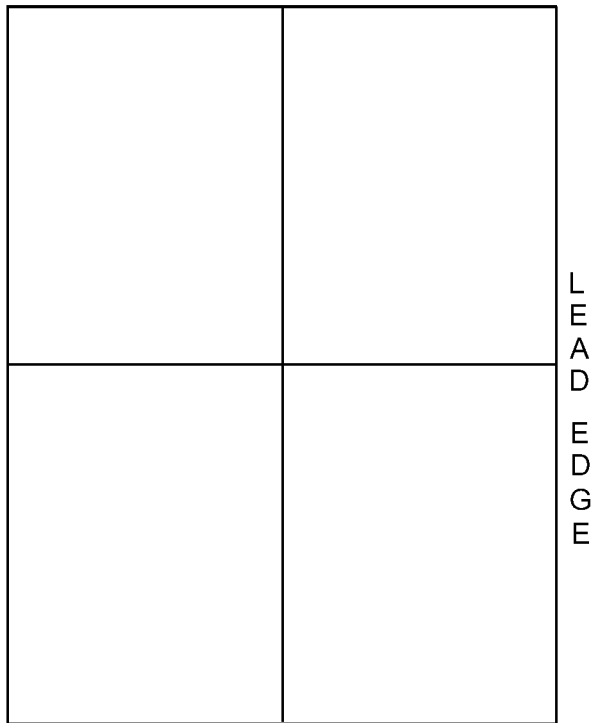


Figure 1 Creating a Test Pattern Original

2. Load 8.5x11" paper into Tray 1.
3. Place the Test Pattern Original face down on the platen glass with the long edge (Lead Edge) against the left registration edge.

4. From the UI Copying screen, select Black, 1-1, 100%, Tray 1 and press the **Start** button.
5. Remove the copy from the output tray and label the lead edge, and indicate the tray feed from, type of paper, and color (Black).
6. Fold the copy in half in both directions.
7. The printed lines should align with the folds.
8. Measure and record the direction and distance the image need to be moved to align them with the folds. (Figure 2)

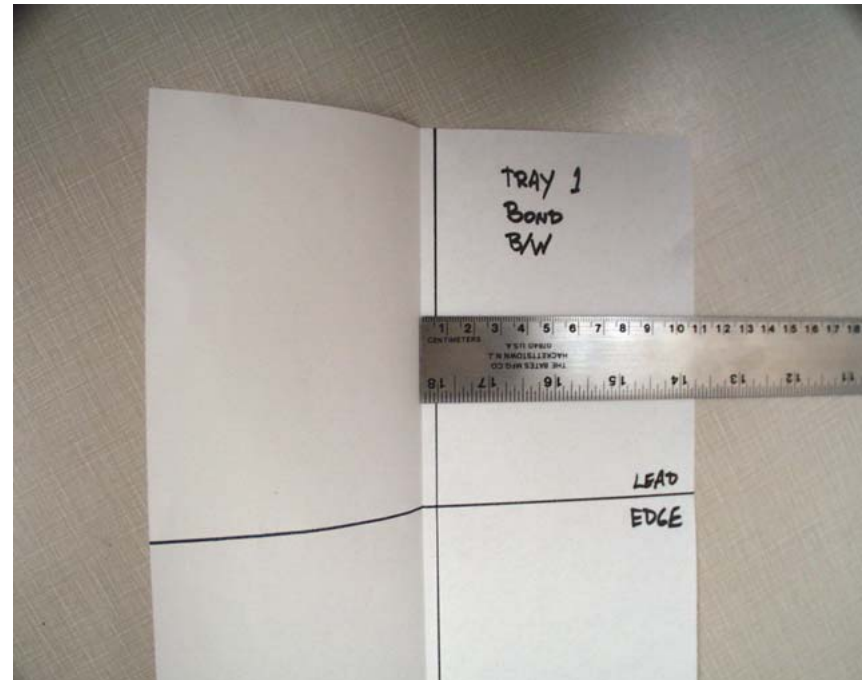


Figure 2 Measuring the distance to move the image

NOTE: Adjusting IIT Lead Edge 715-050. Decrease the value in NVM to move the image toward the lead edge of the print.

NOTE: Adjust IIT Side Edge 715-053. Decrease the value in NVM to move the image toward the outboard edge of the print.

9. If the measured distance is 2mm then divide the measured distance by the 0.036mm/step. $2\text{mm} / 0.036\text{mm} = 55.5$ bits. To move the image to the left, increase the NVM reading by 55 bits. (If the current reading of 715-050 is 84 then, $84 + 55 = 139$)
10. Enter NVM Read/Write, enter 715-050 and change the reading by adding 55 bits to the current reading.
11. Exit Diagnostics.
12. Place the Test Pattern Original face down on the platen glass with the long edge (Lead Edge) against the left registration edge.
13. From the UI Copying screen, select Black, 1-1, 100%, Tray 1 and press the **Start** button.

14. Remove the copy from the output tray and label the lead edge, and indicate the tray feed from, type of paper, and color (Black).
15. Fold the copy in half in both directions.
16. Measure and record the direction and distance the image need to be moved to align them with the folds and adjust the NVM until the IIT is correctly registered.
17. Check that the measured values of the Lead Edge and Side Edge fall within the specifications of the supporting mode.

Table 1 IIT Registration Specification

Item	NVM Location	Increments	Range
Lead Edge	715-050	0.036mm / step	16 - 184
Side Edge	715-053	0.085mm / step	16 - 184

ADJ 11.1.2 IIT Vertical/Horizontal Magnification

Purpose

To correct the horizontal (fast scan)/vertical (slow scan) magnification ratio for a 100% copy.

Check

CAUTION

Perform this procedure only if absolutely required. Changing the IIT magnification may adversely affect resolution due to ASIC shift, and may cause a color shift.

NOTE: Before performing this procedure, make sure that the IOT horizontal/vertical magnification ratios are correct.

1. Place test pattern 82E8220 on the Platen Glass and make a copy using the following copy mode settings:
 - Copy Mode: Black
 - Document Type: Text/Photo
 - Paper: 11x17" or A3
 - Magnification: 100%
 - Number of copies: 2
2. Check the 2nd copy for the following:
3. Check horizontal magnification.
 - Measure the 200mm line. If the dimension is not 200mm +/- 1mm, perform the Adjustment.
4. Check the vertical magnification.
 - Measure the 300mm line. If the dimension is not 300mm +/- 1.5mm, perform the Adjustment.

Adjustment

1. Horizontal Magnification Adjustment
 - Enter UI Diagnostics, NVM 715-051.
 - Each bit represents 0.1% change.
 - Increase the value to lengthen the line.
 - Decrease the value to shorten the line.
1. Vertical Magnification Adjustment
 - Enter UI Diagnostics, NVM 715-702.
 - Each bit represents 0.1% change.
 - Increase the value to lengthen the line.
 - Decrease the value to shorten the line.

Table 1 NVM List

Chain Link	Name	Min.	Initial	Max	Increments
715-051	Platen SS Reduce/Enlarge Adjustment	44	50	56	0.1%
715-702	Platen FS Reduce/Enlarge Adjustment	0	50	100	0.1%

ADJ 11.2.1 Reduce/Enlarge Adjustment

Purpose

To obtain the proper Reduce/Enlarge ratio for Copy in the Lead Edge to Trail Edge direction and the Front to Rear direction.

Check

- Use Side B of the Standard Test Pattern (82P521 or 82P524).

The tolerance for each Reduce/Enlarge setting in the Lead Edge to Trail Edge direction and the Front to Rear direction are listed in the following table.

Table 1

Reduce/Enlarge (%)	Measurement
65	130 2mm
101	202 2mm
154	154 1.5mm

Refer to Figure 1 for the areas to be measured. For 65% and 101%, use areas A and B for reduction/enlargement in the Lead Edge to Trail Edge direction, and areas C and D for enlargement in the Front to Rear direction. For 154%, use areas A and E for enlargement in the Lead Edge to Trail Edge direction, and areas C and F for enlargement in the Front to Rear direction. (Figure 1)

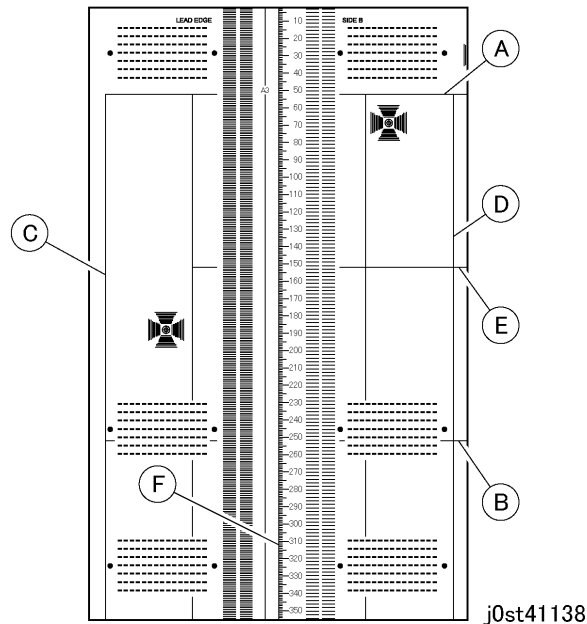


Figure 1 Enlargement areas to be measured

Adjustment

- Enter UI Diagnostic Mode.
- Select **NVM Read/Write**.
- Adjust the distance between the reference points in the copy using the following NVM so that it is the same as the distance between the same points in the Test Chart.

If the measured value in the copy is shorter than the measured value in the Test Chart: Set a larger value.

If the measured value in the copy is longer than the measured value in the Test Chart: Set a smaller value.

Table 2 NVM List

Chain	Link	Name	Min.	Initial	Max	Increment
715	051	Platen SS Reduce/Enlarge Adjustment	44	50	56	0.1%
715	702	Platen FS Reduce/Enlarge Adjustment	0	50	100	0.1%

ADJ 11.3.1 UI Alignment

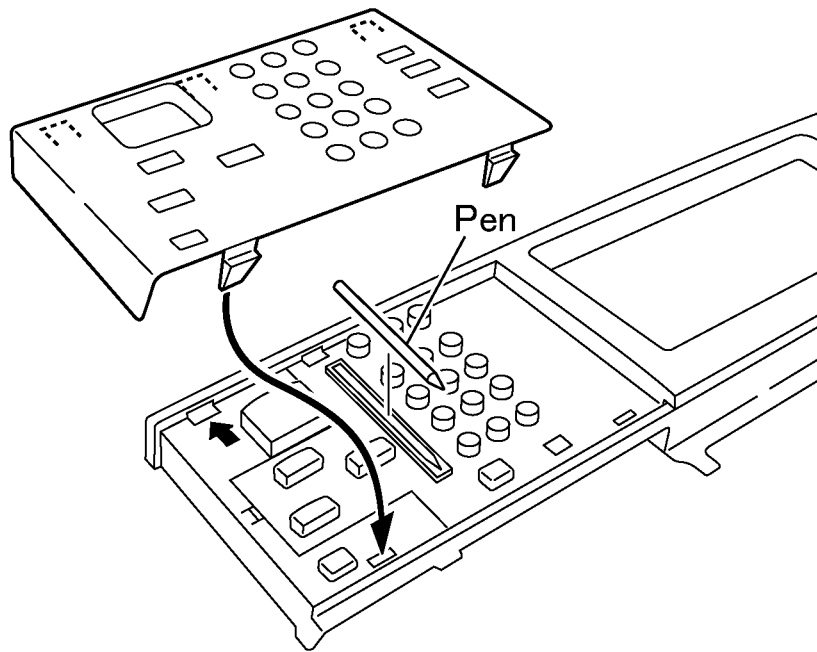
Purpose

To align the position of the buttons on the display and the touch panel so that the user can select the contents on the display using the touch panel. Perform this adjustment only after replacing the UI PWB and the Control Panel.

NOTE: Adjust using the Touch Pen found in the Control Panel. If the Touch Pen is not available, you may use a pointed object. Take care not to damage the surface of the UI when using the pointed object.

Adjustment

1. Turn off the power. Remove the Control Panel and take out the Touch Pen. (Figure 1)



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Figure 1 Location of the Touch Pen for UI Alignment

2. Return the Control Panel to its original position. Hold down the 0, 1, 3 keys while turning on the machine.

The following will appear on the display. (Figure 2)

P1	P2	P3
P4	P5	P6
P7	P8	P9

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Figure 2 UI Alignment Adjustment Screen

3. Using the Touch Pen, touch the intersections of the vertical and horizontal lines, P1 to P9, in sequence. (Stay on each point on the Touch Pen for approx. 1 sec. then proceed to the next point.)
After pressing all the buttons, the machine automatically calculates the difference between the coordinates and the correction values.
This calculation takes approx. 0.1 sec.
4. After a few seconds, turn the power Off/On. The UI may be used after reboot as the data has been corrected.
NOTE: If power is turned off during adjustment, data before adjustment will be restored. Complete the whole procedure before turning off the machine.
5. Keep the Touch Pen in the Control Panel and return the Control Panel to its original position.

ADJ 11.6.1 Full/Half Rate Carriage Position Adjustment

Purpose

To adjust the position of the Full/Half Rate Carriage.

Adjustment

WARNING

To avoid personal injury or shock, do not perform repair or adjustment with electrical power applied to the machine.

CAUTION

Check that "Ready to Copy" is displayed on the Control Panel display.

NOTE: Adjust the position of the Front and Rear Full/Half Rate Carriage separately.

1. Switch off the power and disconnect the power cord.
2. Remove the Platen Glass. (REP 11.3.1)
3. Remove the Lens Assembly cover. PL 13.4
4. Prepare the tools (2) for determining the position. (Figure 1)
 1. Remove the screws (2).
 2. Take out the tools (2).

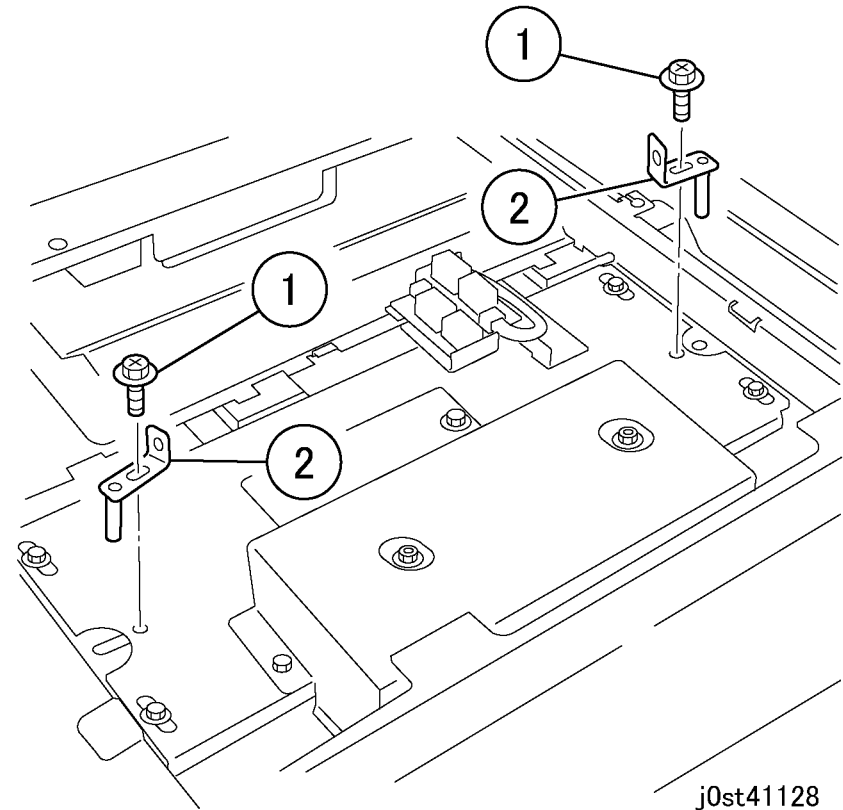


Figure 1 Taking out the tools

5. Align the tool hole in the Half Rate Carriage with the tool hole of the rail (Front/Rear). (Figure 2)

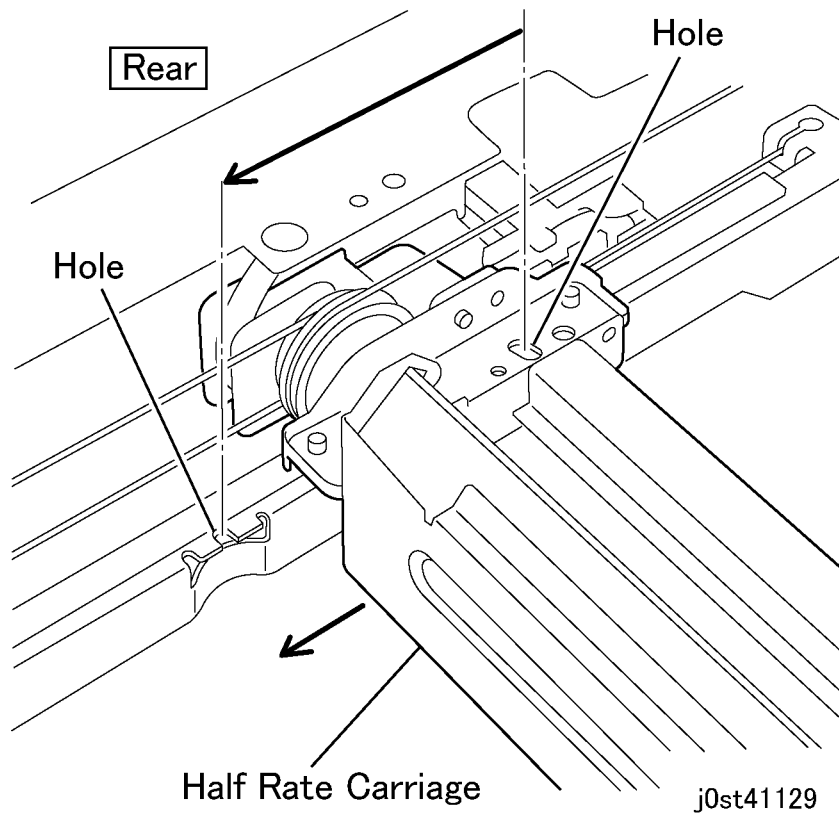


Figure 2 Position Adjustment of Half Rate Carriage 1/3

6. Fix the tool to the Half Rate Carriage. (Figure 3)

NOTE: Install the tools near the edges (the front tool to the front and the rear tool to the rear).

1. Fix the tool. (Front/Rear)
2. Secure it with a screw.

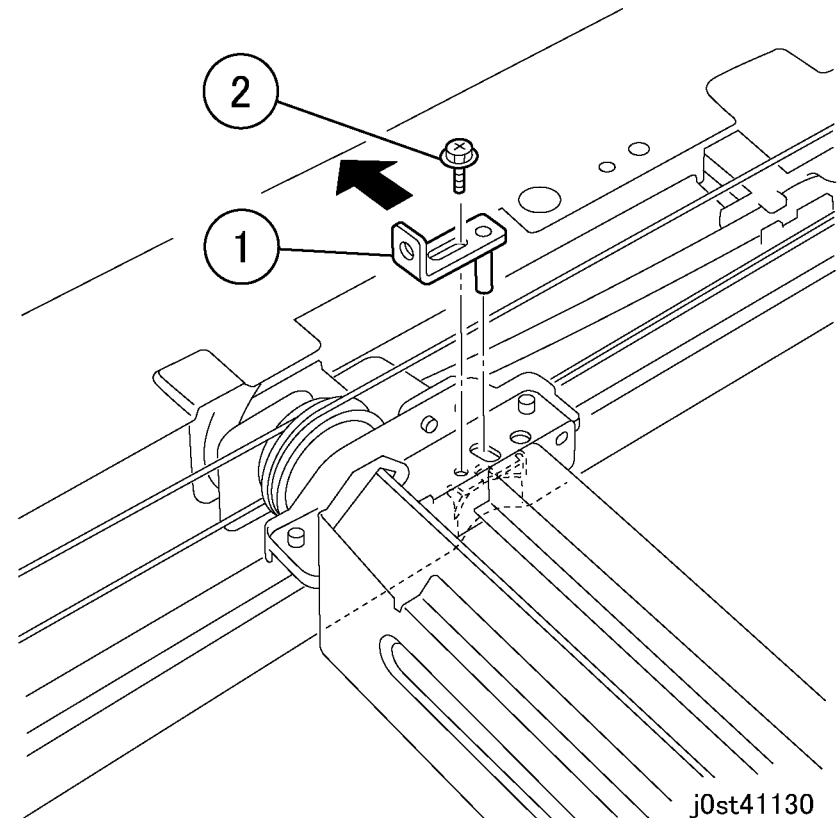


Figure 3 Position Adjustment of Half Rate Carriage 2/3

NOTE: The fixing position of the pulley can be changed if the tool holes of the Half Rate Carriage and the rail are not aligned and the tool is not fixed in place. (Figure 4)

1. Loosen the screws (2).
2. Turn the Pulley until the tool hole aligns.
3. Align the shaft concave with the Pulley end face and tighten the screws (2).

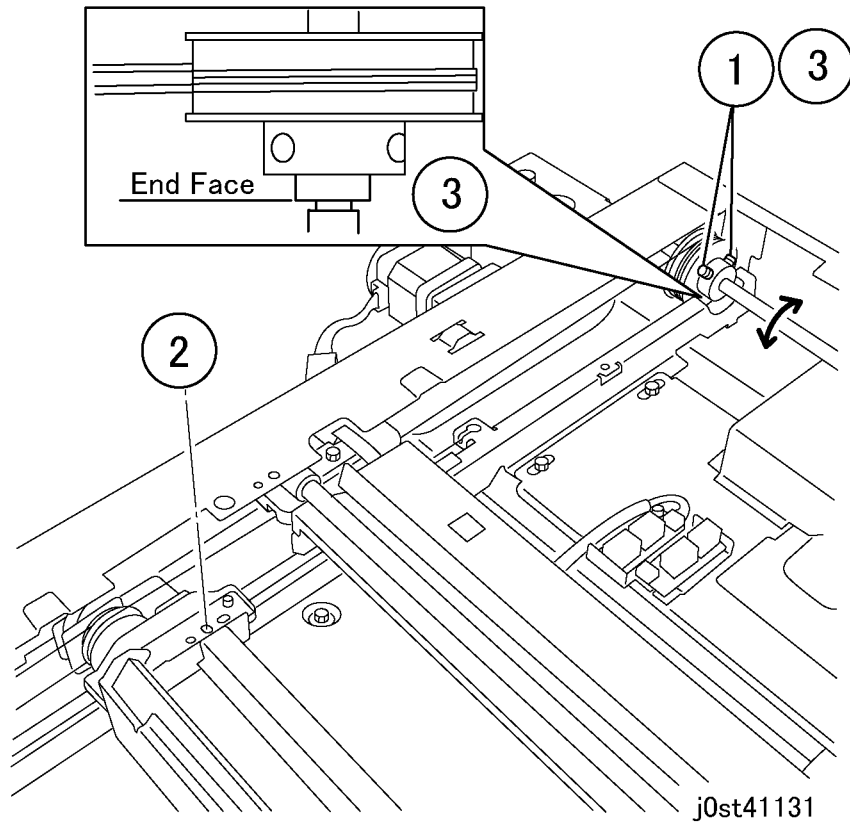


Figure 4 Position Adjustment of Half Rate Carriage 3/3

7. Fix the tool to the tool hole on the frame and check the tool holes of the frame and the Full Rate Carriage. (Figure 5)

NOTE: When adjusting the position of Full Rate Carriage from the rear side, to it with the rear tool for Half Rate Carriage installed.

1. Fix the tool.
2. Secure it with a screw.

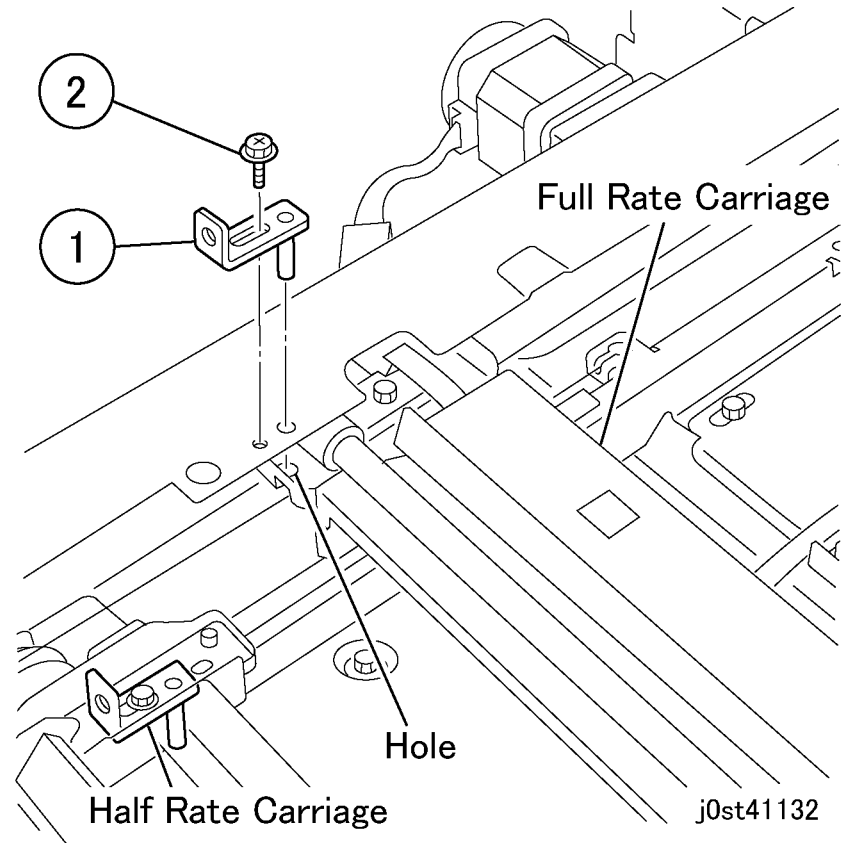


Figure 5 Position Adjustment of Full Rate Carriage 1/2

NOTE: Loosen the securing screw of the Carriage Cable and align the tool holes if the tool holes of the frame and the Full Rate Carriage are not aligned, and the tool is not fixed in place. (Figure 6)

1. Loosen the screw.
2. Move the Full Rate Carriage until the tool hole aligns.
3. Tighten the screw.

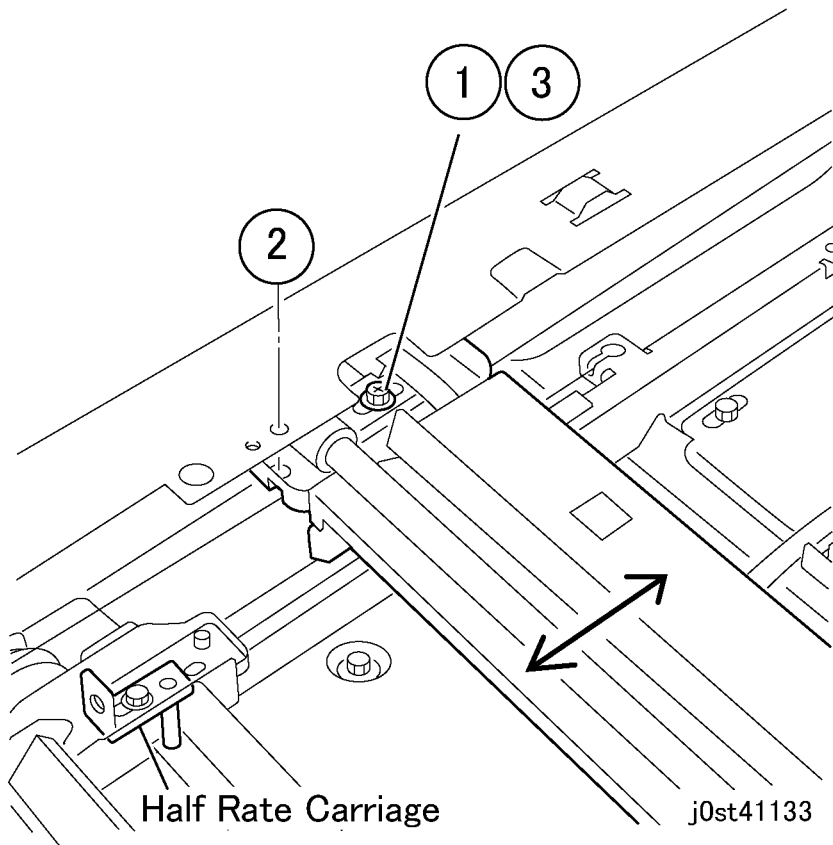


Figure 6 Position Adjustment of Full Rate Carriage 2/2

8. When adjusting the front position of Full Rate Carriage, move the tool for Half Rate Carriage to the front of Full Rate Carriage before doing the adjustment. At this time the rear tool for Full Rate Carriage remains installed.

ADJ 15.1.1 DADF Side Edge Registration

Purpose

To set the DADF Scan Position (original scan position) Side Edge (Fast Scan Direction).

NOTE: The following adjustments must be checked.

- IOT Image Registration Adjustment (ADJ 9.1.1)
- IIT Lead Edge/Side Edge Registration Adjustment (ADJ 11.1.1)
- DADF Height Adjustment (ADJ 15.1.5)
- DADF Position (Skew) Adjustment (ADJ 15.1.6)

For this sequence of checks and adjustments, an original Cross Line Test Pattern with lines drawn exactly down the center and across in both directions, will need to be created.

Check

DADF Side Edge Registration Side 1

1. To create a Cross Line Test Pattern Original, use a plain white sheet of 8.5x11" paper and fold the sheet precisely in half lengthwise and width wise. Then with a straight edge draw a straight line in the lengthwise crease and a straight line in the width wise crease. Label the top for orientation purposes. (Figure 1)

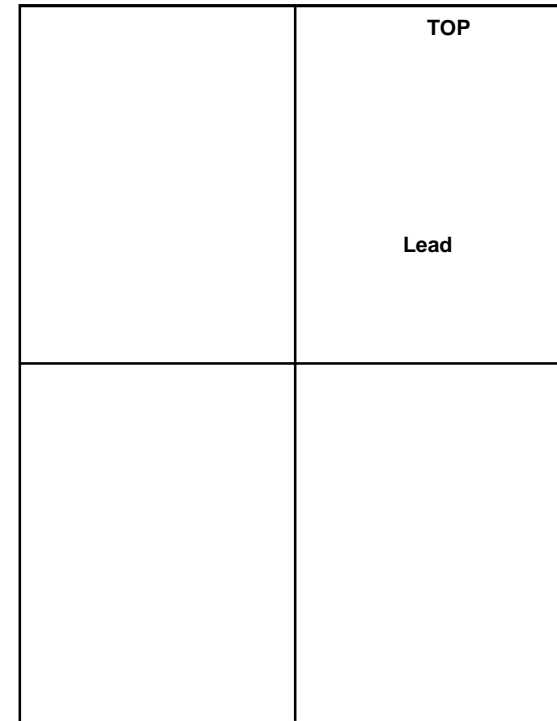


Figure 1 Creating a Test Pattern Original

2. Load Tray 1 with 8.5x11" paper.
3. Place the new Cross Line Test Pattern on the DADF with the word TOP **Face Up** and towards the rear of the DADF.
4. Select Tray 1, 1-1 Sided.
5. 100%
1->1 Sided
1 copy
6. Make one copy to the center tray.
7. Remove the copy from the center tray and **Flip the copy left to right.**
8. Fold the copy in half in the 8.5 inch direction.
9. If adjustment is required, enter UI Diagnostic Mode, NVM 711-272 to place the Center line on the fold. See Table 1.

NOTE: Increase the value to move the image toward the lead edge.

DADF Side Edge Registration Side 2

1. Place the new Cross Line Test Pattern on the DADF with the word TOP **Face Down** and towards the rear of the DADF.
2. Select Tray 1, 2-2 Sided.
3. 100%
1->1 Sided
1 copy
4. Make one copy to the center tray.
5. Remove the copy from the center tray but **DO NOT FLIP** the copy this time.
6. Fold the copy in half in the 8.5 inch direction.
7. If adjustment is required, enter UI Diagnostic Mode, NVM 711-274 to place the center line on the fold. See Table 1.

NOTE: Increase the value to move the image toward the lead edge.

NOTE: The Values of NVM 711-272 and 711-274 are written to NVM's 715-110, 715-111, 715-112, and 715-113, when the machine power is switched on.

- 711-272 = 715-110
- 711-274 = 715-111, 715-112, 715-113

Table 1 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
711-272	CVT FS Offset Side 1 Replace All	0	120	240	.06mm
711-274	CVT FS Offset Side 2 Replace All	0	120	240	.06mm

ADJ 15.1.3 DADF Non-Standard Sized Original Customized Registration Function

Purpose

To enable non-standard sized originals to be fed as standard sized originals by registering original sizes that cannot be detected (non-standard sizes) by the DADF. This enables the feeding of customized original sizes for different users.

[Outline]

Original size detection is based on the customized registered data. The DADF then processes the original in the specified original size. Customized registration is limited to only 1 entry. If the registration data is valid, the original size is detected based on the priorities in the detection table.

Preparation

1. Borrow a non-standard sized original to be registered from the customer.
2. Check in which direction (LEF or SEF) the customer wants to process the original using the DADF.
3. Check in which paper size and direction the customer wants the copy.
4. Check and make a note of the Fast Scan Direction Length (X) and Slow Scan Direction Length (Y) of the original using the scale.

Adjustment

1. Enter NVM Read/Write.
2. Set the following NVM Data for customized registration detection.

NOTE: Fast Scan Direction Max \leq Fast Scan Direction Min. Value = 200 (within 20mm)

NOTE: Slow Scan Direction Max \leq Slow Scan Direction Min. Value = 200 (within 20mm)

NOTE: In order to prevent incorrect detection by the Size Sensor, the following sizes cannot be entered.

- Fast Scan Direction Max: 2190~2290
- Fast Scan Direction Min.: 2810~2910

For the measurements X and Y obtained in the preparation:

- Set the data for 710-565 to 1. (Customized registration is valid.)
- Set (X+10)x10 to be resident in the data for 710-559. (Fast Scan Direction Max Value Setting)
- Set (X-10)x10 to be resident in the data for 710-560. (Fast Scan Direction Max Value Setting)
- Set (Y+10)x10 to be resident in the data for 710-561. (Slow Scan Direction Max Value Setting)
- Set (Y-10)x10 to be resident in the data for 710-562. (Slow Scan Direction Min. Value Setting)
- Enter the data for 710-563. (Enter the data for a paper size selected from the table below based on the size specified by the customer.)

- Enter the data for 710-564. (Enter the data for a paper size selected from the table below based on the size specified by the customer.)

The information that is related to the NVM to be entered is as follows.

Table 1 NVM List

Chain-Link	Display Data Name	Remarks
710-559	Fast Scan Direction Max Value Note 1)	Setting Range=1297~3070 in increments of 0.1mm (Initial Value=2970)
710-560	Fast Scan Direction Min. Value Note 1)	Setting Range=1297~3070 in increments of 0.1mm (Initial Value=2970)
710-561	Slow Scan Direction Max Value Note 2)	Setting Range=1297~4418 in increments of 0.1mm (Initial Value=2100)
710-562	Slow Scan Direction Min. Value Note 2)	Setting Range=1297~4418 in increments of 0.1mm (Initial Value=2100)
710-563	Specified Paper Code for Customized Registration	03: 5.5"x 8.5" 04: A5 05: B5 08: A4 09: 8"x10" 10: 8.5"x11" 11: 8.5"x12.4" 12: 8.5"x13" 13: 8.5"x14" 14: B4 15: A3 16: 11"x17" 17: 8K 20: ILLEGAL SIZE (Initial Value=08)
710-564	Feed Direction for Original Size	0: LEF, 1: SEF (Initial Value=0)
710-565	Specified Customized Registration for DADF Original Size Detection Table	Do not use Specified Customized Registration for Original Size Detection Table: 0 Use Specified Customized Registration for Original Size Detection Table: 1 (Initial Value=0)

- Check the NVM Data setting.
- Feed the customized original registered in the Size Detection Table into the DADF.
→ Check that the original size is detected according to the settings.

NOTE: As non-standard sized originals are handled as standard sized originals, there may be problems such as image loss in the scan data.

ADJ 15.1.4 DADF Lead Edge Registration

Purpose

To set the DADF Lead Edge Registration in side 1 and side 2.

NOTE: The following adjustments must have been completed.

- IOT Image Registration Adjustment (ADJ 9.1.1)
- IIT Lead Edge/Side Edge Registration Adjustment (ADJ 11.1.1)
- DADF Height Adjustment (ADJ 15.1.5)
- DADF Position (Skew) Adjustment (ADJ 15.1.6)

Check

- Place the 82E8220 Test Pattern on the Document glass with the trade mark and part number as the lead edge.
- Set up the machine to make two sided copies of the test pattern as follows:
 - On the UI Ready to Copy Screen, select the Copy tab.
 - Under Output Color select Black.
 - Under the Paper Supply select 11x17" paper size.
 - Under 2 Sided Copying select 1 to 2 Sided.
 - Reduce / Enlarge should be set to 100%.
 - On the UI Ready to Copy Screen, select the Layout Adjustment tab, Image Shift should be Side 1 and Side 2 No Shift. Select Save.
- Select a Quantity of 5.
- Press the Start button to make side 1.
- After side 1 is made, place a small piece of paper with the words side 2 written on it, onto the Document Glass and under the 82E8220 Test Pattern.

NOTE: Side 2 can now be identified by the word "side 2" copied from the small piece of paper placed on the Document Glass under the test pattern from step 5. (Figure 1)

- Press the Start button to make side 2.

NOTE: The 2 sided copies will be used to run duplex sets for measurement through the DADF.

- Place the 2 sided copies into the DADF and make one set of 2 sided copies.
- On side 1 and side 2, measure on the scale from the 10 mm line to the edge of the paper. The measurement should as follows. (Table 1)

Table 1 Specification

Item	Simplex	Duplex
Lead Edge	10 ± 0.5mm	10 ± 0.5mm

Piece of paper to identify side 2

The 10 mm line is located on this scale

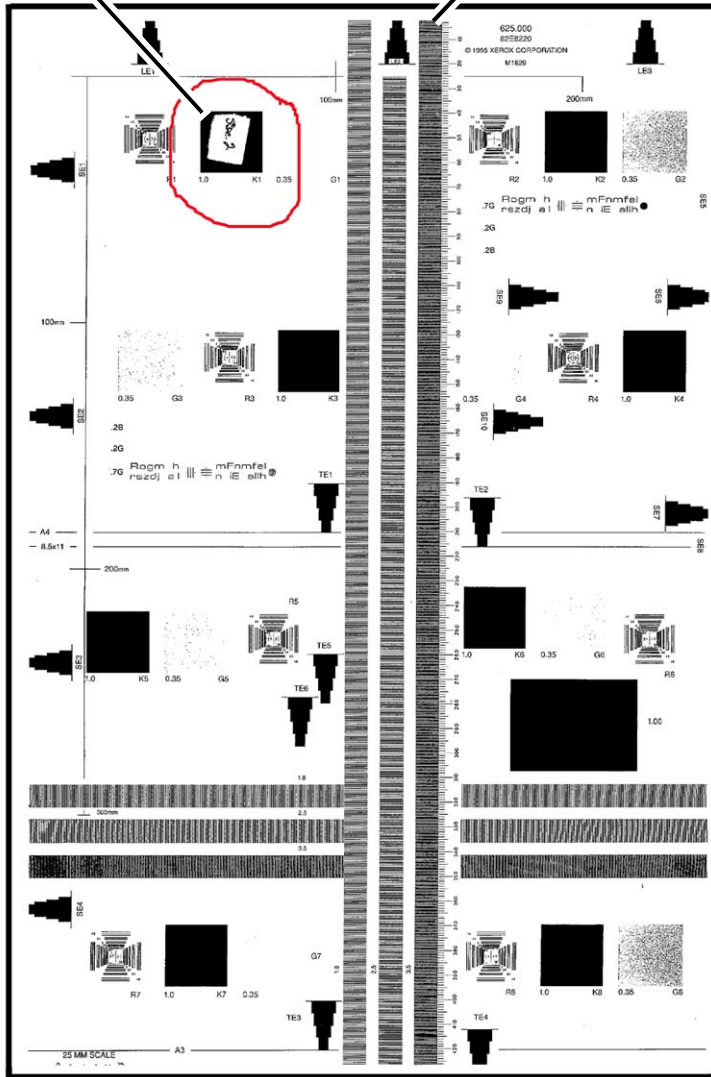


Figure 1 Identifying side 2

Adjustment

1. Enter UI Diagnostic Mode.

2. Select **NVM Read/Write**.
3. Adjust the Lead Edge using the following NVM so that the measured value falls within specifications.
If the measured value is short: Set a smaller value.
If the measured value is long: Set a larger value.

Table 2 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
711-140	DADF Lead Reg. Adjustment (Side 1) Replace All	80	129	230	0.458mm
711-141	DADF Lead Reg. Adjustment (Side 2) Replace All	80	129	230	0.458mm

4. After adjustment is complete, perform the check following the steps in the Check procedure.
5. Repeat the procedure until the measured value of the Lead Edge falls within the specifications.

ADJ 15.1.5 DADF Height Adjustment

Purpose

To correct the feeding of the original by adjusting the height of the DADF.

Check

1. Check the gap between the DADF Platen Guide tips (x3) and the Platen Glass or DADF Platen Glass. (Figure 1)
 1. The DADF Platen Guide tip at the rear is touching the DADF Platen Glass.
 2. The DADF Platen Guide tips (x2) at the front are touching the Platen Glass.

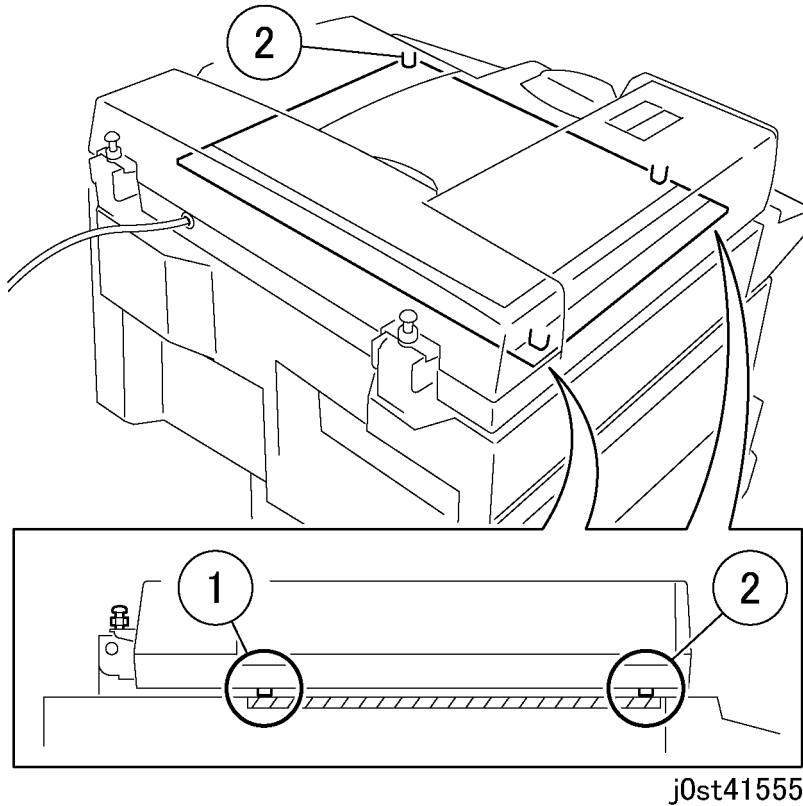


Figure 1 Checking the gap between the DADF Platen Guide and the Platen Glass

Adjustment

NOTE: DADF height adjustment is basically carried out using the Left Counter Balance. In cases where such adjustment is not possible, adjustment is carried out using the Right Counter Balance.

1. Loosen the nut of the Left/Right Counter Balance and turn the screw to adjust the height and slant of the DADF. (Figure 2)
 - Turning the screw in direction A will cause the front of the DADF to rise and the rear to fall. (Direction of arrow A)
 - Turning the screw in direction B will cause the front of the DADF to fall and the rear to rise. (Direction of arrow B)

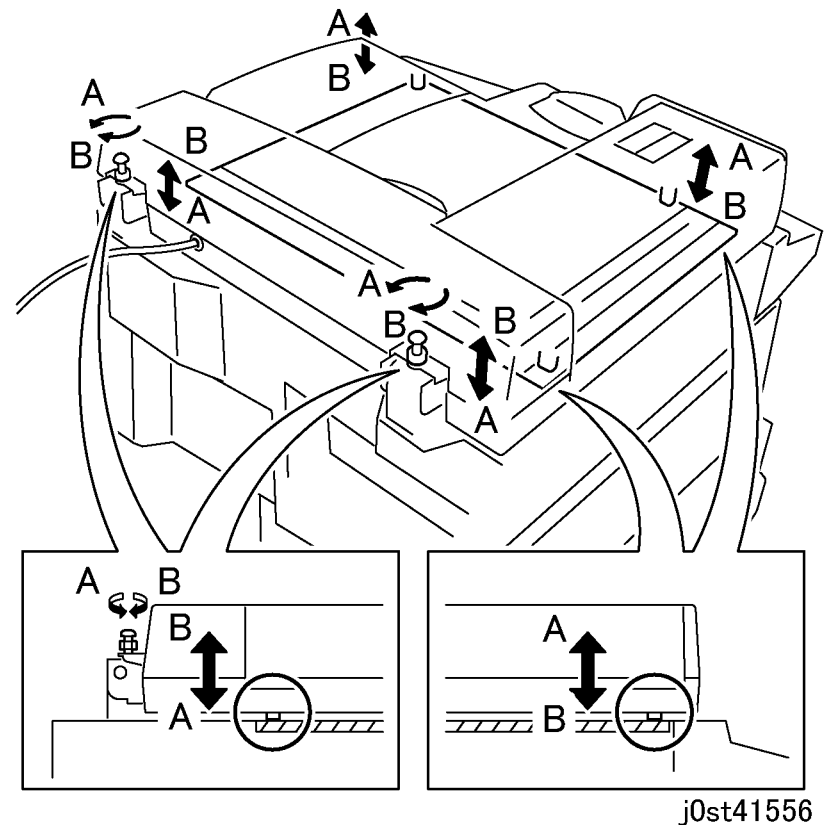


Figure 2 Adjusting the DADF Height

NOTE: Ensure that the nut is securely tightened after adjustment.

ADJ 15.1.6 DADF Position (Skew) Adjustment

Purpose

To correct the feeding of the original by adjusting the height of the DADF. (DADF Skew)

Check

1. Place the Test Chart 82E8220 on the Platen Glass.
2. Place 11x17" paper in Tray 1.
3. Make a copy using the following settings in Copy mode.
 - a. On the UI Ready to Copy Screen, select the Copy tab.
 - b. Under Output Color select Black.
 - c. Under the Paper Supply select 11x17" paper size.
 - d. Under 2 Sided Copying select 1 Sided.
 - e. Reduce / Enlarge should be set to 100%.
 - f. On the UI Ready to Copy Screen, select the Layout Adjustment tab, Image Shift should be Side 1 No Shift. Select Save if necessary.

NOTE: The copy made from the Platen Glass will be used as the original in the DADF.

4. Place the copy made from the Platen Glass into the DADF and make 3 copies.
5. Check that the difference in the distance between the side and the Edges at the 100mm mark and the 300mm mark in the 3 copies is within 0.5mm. (Figure 1)

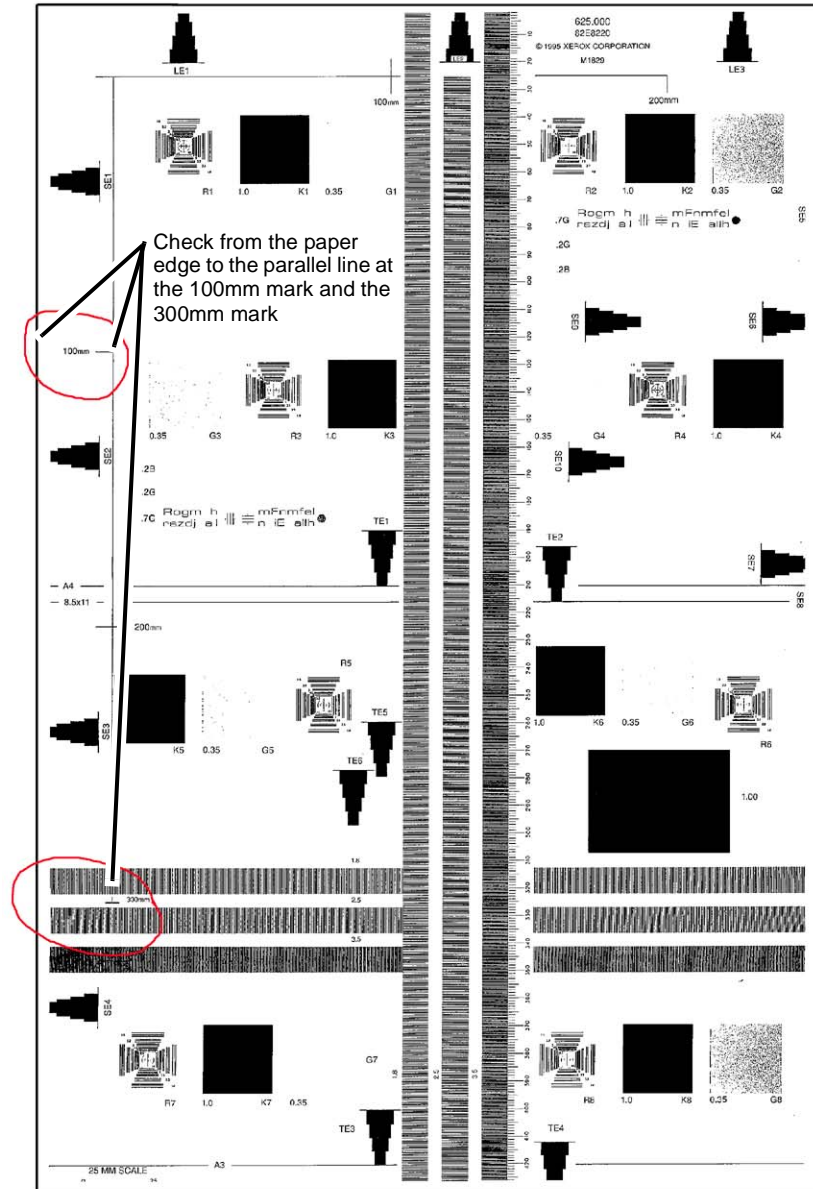


Figure 1 Checking the Skew

Adjustment

1. Remove the DADF Rear Cover. (REP 15.2.4)
2. Adjust the position of the DADF by moving the DADF in direction A or B. (Figure 2)
 1. Loosen the screws (5).
 2. Move the DADF in direction A or B.
 3. Tighten the screws (5).

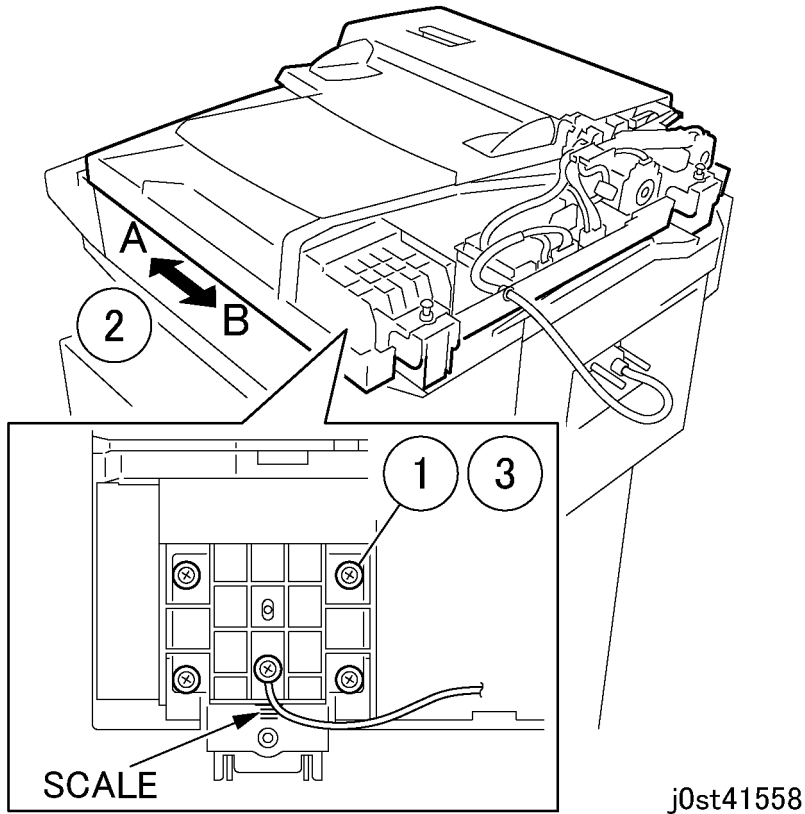


Figure 2 Adjusting the DADF Position

- The DADF moved in direction A. (Figure 3)

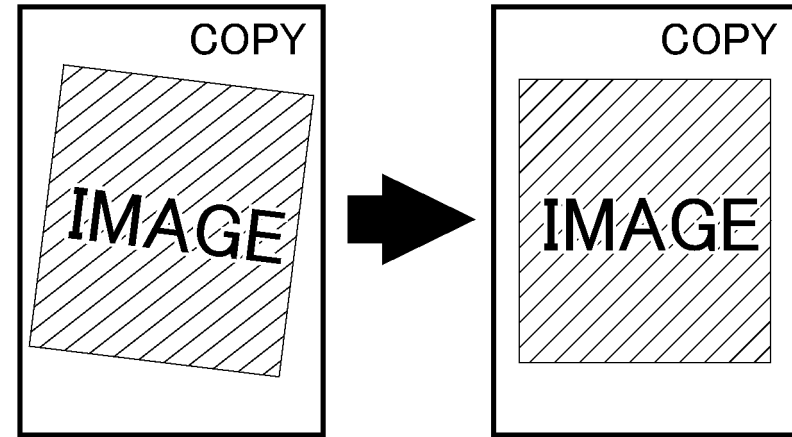
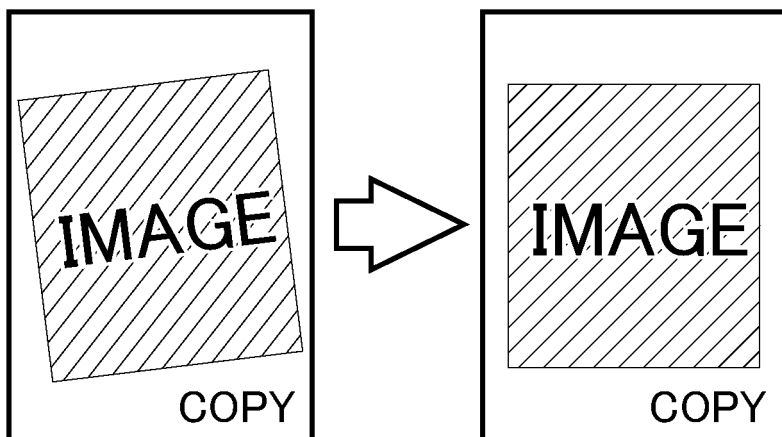


Figure 3 Output copy after adjustment

- The DADF moved in direction B. (Figure 4)



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Figure 4 Output copy after adjustment

3. Reinstall the DADF Rear Cover.
4. After adjustment, carry out DADF Side Edge Registration Adjustment (ADJ 15.1.1) and DADF Lead Edge Registration (ADJ 15.1.4).

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Introduction

Overview

The Parts List section identifies all part numbers and the corresponding location of all spared subsystem components.

Organization

Parts Lists

Each item number in the part number listing corresponds to an item number in the related illustration. All the parts in a given subsystem of the machine will be located in the same illustration or in a series of associated illustrations.

Electrical Connectors and Fasteners

This section contains the illustrations and descriptions of the plugs, jacks, and fasteners used in the machine. A part number listing of the connectors is included.

Common Hardware

The common hardware is listed in alphabetical order by the letter or letters used to identify each item in the part number listing and in the illustrations. Dimensions are in millimeters unless otherwise identified.

Part Number Index

This index lists all the spared parts in the machine in numerical order. Each number is followed by a reference to the parts list on which the part may be found.

Other Information

Abbreviations

Abbreviations are used in the parts lists and the exploded view illustrations to provide information in a limited amount of space. The following abbreviations are used in this manual:

Table 1

Abbreviation	Meaning
A3	297 x 594 Millimeters
A4	210 x 297 Millimeters
A5	148 x 210 Millimeters
AD	Auto Duplex
AWG	American Wire Gauge
EMI	Electro Magnetic Induction
GB	Giga Byte
KB	Kilo Byte
MB	Mega Byte
MM	Millimeters
MOD	Magneto Optical Drive
NOHAD	Noise Ozone Heat Air Dirt
PL	Parts List
P/O	Part of

Table 1

Abbreviation	Meaning
R/E	Reduction/Enlargement
REF:	Refer to
SCSI	Small Computer Systems Interface
W/	With
W/O	Without

Table 2

Operating Companies	
Abbreviation	Meaning
AO	Americas Operations
NASG - US	North American Solutions Group - US
NASG - Canada	North American Solutions Group - Canada
XE	Xerox Europe

Symbology

Symbology used in the Parts List section is identified in the Symbology section.

Service Procedure Referencing

If a part or assembly has an associated repair or adjustment procedure, the procedure number will be listed at the end of the part description in the parts lists e.g. (REP 5.1, ADJ 5.3)

Subsystem Information

Use of the Term “Assembly”

The term “assembly” will be used for items in the part number listing that include other itemized parts in the part number listing. When the word “assembly” is found in the part number listing, there will be a corresponding item number on the illustrations followed by a bracket and a listing of the contents of the assembly.

Brackets

A bracket is used when an assembly or kit is spared, but is not shown in the illustration. The item number of the assembly or kit precedes the bracket; the item numbers of the piece parts follow the bracket.

Tag

The notation “W/Tag” in the parts description indicates that the part configuration has been updated. Check the change Tag index in the General Information section of the Service Data for the name and purpose of the modification.

In some cases, a part or assembly may be spared in two versions: with the Tag and without the Tag. In those cases, use whichever part is appropriate for the configuration of the machine on which the part is to be installed. If the machine does not have a particular Tag and the only replacement part available is listed as “W/Tag”, install the Tag kit or all of the piece parts. The Change Tag Index tells you which kit or piece parts you need.

Whenever you install a Tag kit or all the piece parts that make up a Tag, mark the appropriate number on the Tag matrix.

Symbology

A Tag number within a circle pointing to an item number shows that the part has been changed by the tag number within the circle (Figure 1). Information on the modification is in the Change Tag Index.

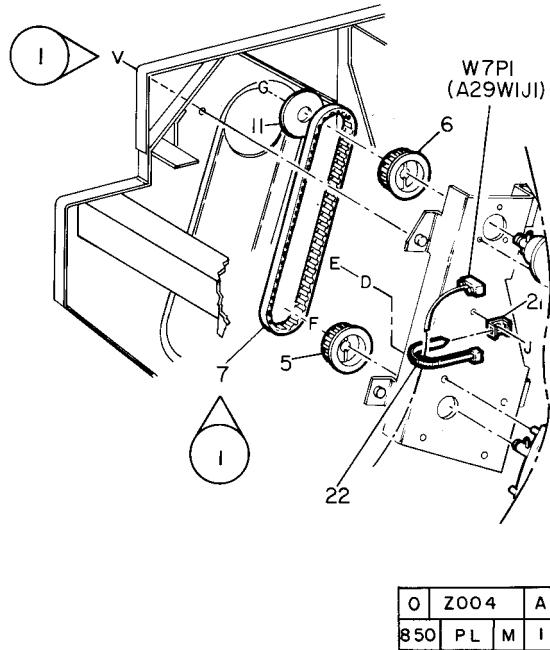


Figure 1 With Tag Symbol

A Tag number within a circle having a shaded bar and pointing to an item number shows that the configuration of the part shown is the configuration before the part was changed by the Tag number within the circle (Figure 2).

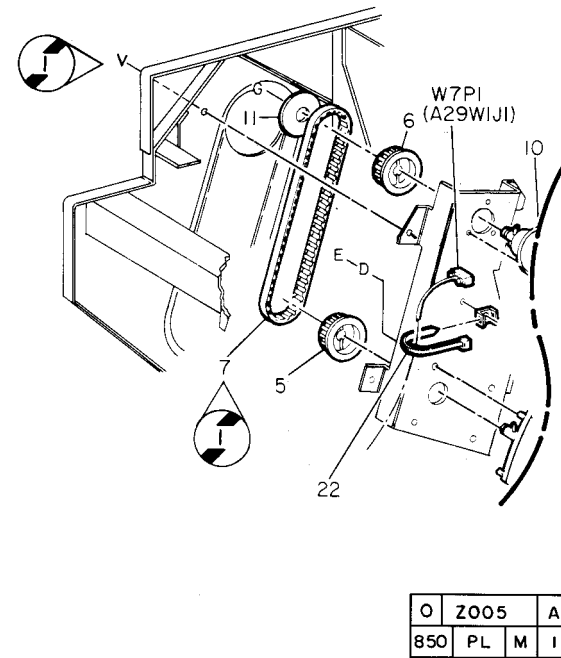


Figure 2 Without Tag Symbol

A tag number within a circle with no apex shows that the entire drawing has been changed by the tag number within the circle (Figure 3). Information on the modification is in the Change Tag Index.

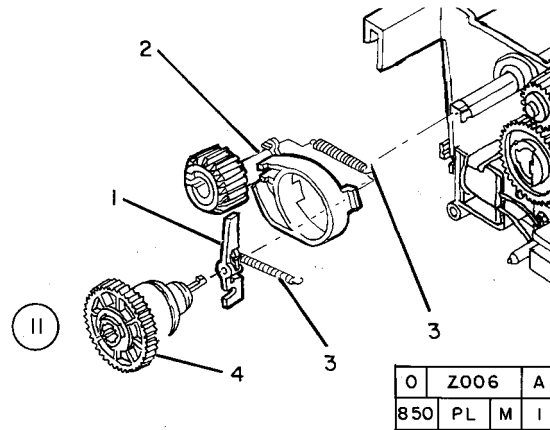


Figure 3 Entire Drawing With Tag Symbol

A tag number within a circle with no apex and having a shaded bar shows that the entire drawing was the configuration before being changed by the tag number within the circle (Figure 4).

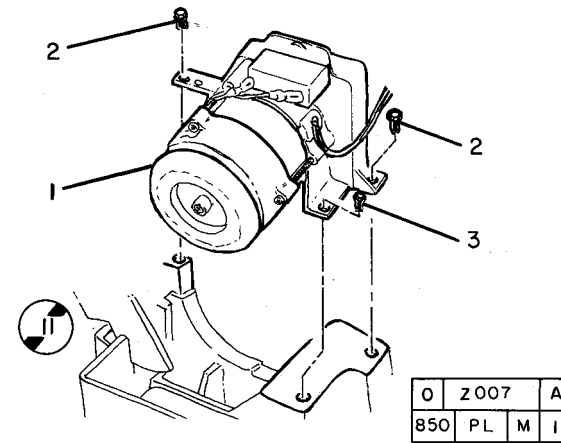


Figure 4 Entire Drawing Without Tag Symbol

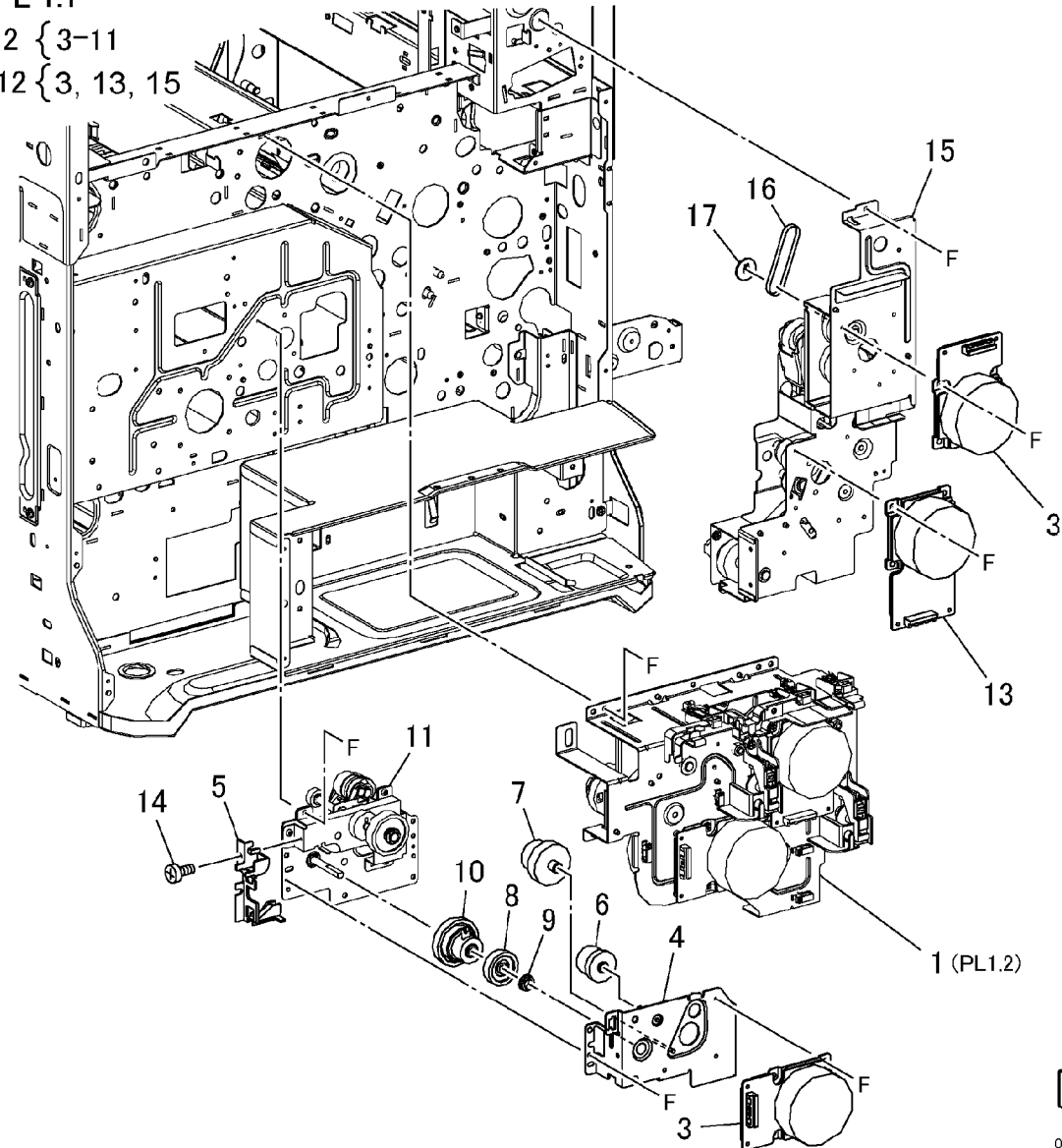
PL 1.1 Main Drive

Item	Part	Description
1	007K93911	Drum Drive Assembly (REP 1.1.2)
2	007K93974	Developer Drive Assembly (REP 4.2.1)
3	127K48670	Fuser Motor, Developer Motor
4	-	Upper Bracket (P/O PL 1.1 Item 2)
5	-	Harness Guard (P/O PL 1.1 Item 2)
6	-	Gear (30/27T) (P/O PL 1.1 Item 2)
7	-	Gear (55/30T) (P/O PL 1.1 Item 2)
8	-	Gear (33T) (P/O PL 1.1 Item 2)
9	-	Bearing (P/O PL 1.1 Item 2)
10	121K36990	Dispenser Clutch
11	-	Lower Bracket (P/O PL 1.1 Item 2)
12	007K93962	Main Drive (REP 1.1.1)
13	127K48660	Main Motor (25w)
14	-	Screw (Not Spared)
15	-	Bracket (P/O PL 1.1 Item 12)
16	423W06955	Belt, Exit 1
17	-	Flange (Not Spared)

PL 1.1

2 { 3-11

12 { 3, 13, 15

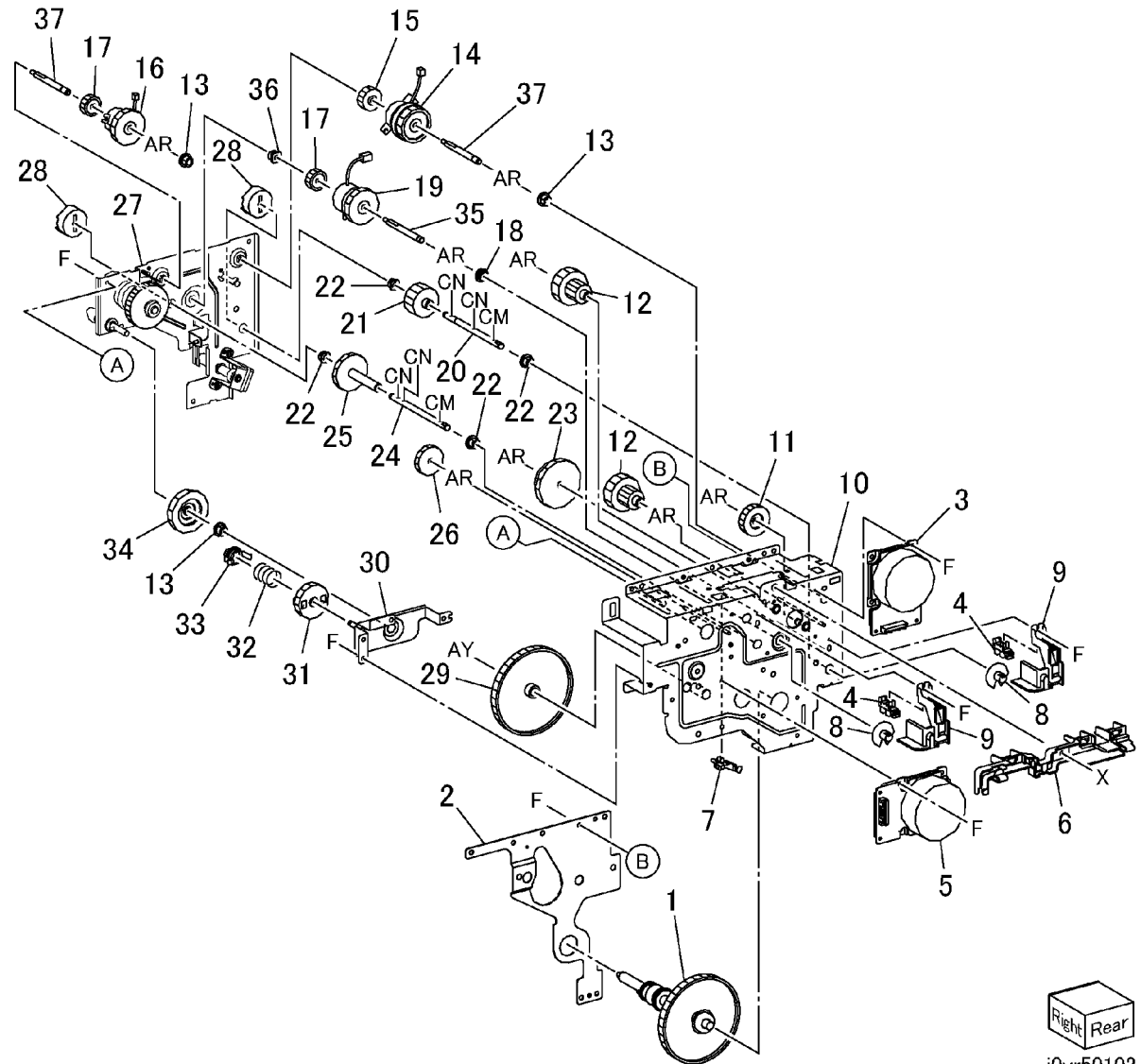


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PL 1.2 Drum Drive Assembly

Item	Part	Description
1	-	Drum Shaft (P/O PL 1.1 Item 1)
2	-	Gear (144T) (P/O PL 1.1 Item 1)
3	-	Bearing (P/O PL 1.1 Item 1)
4	930W00111	Photo INT Sensor
5	127K48680	Drum Motor
6	-	Connector Bracket (P/O PL 1.1 Item 1)
7	-	Harness Bracket (P/O PL 1.1 Item 1)
8	-	Cam Wheel (P/O PL 1.1 Item 1)
9	-	Sensor Bracket (P/O PL 1.1 Item 1)
10	-	Upper Bracket (P/O PL 1.1 Item 1)
11	-	Gear (50T) (P/O PL 1.1 Item 1)
12	-	Gear (42/23T) (P/O PL 1.1 Item 1)
13	-	Bearing (P/O PL 1.1 Item 1)
14	-	Clutch (P/O PL 1.1 Item 1)
15	-	Gear (27T) (P/O PL 1.1 Item 1)
16	-	Clutch (P/O PL 1.1 Item 1)
17	-	Gear (23T) (P/O PL 1.1 Item 1)
18	-	Bearing (P/O PL 1.1 Item 1)
19	-	Clutch (P/O PL 1.1 Item 1)
20	-	Shaft (P/O PL 1.1 Item 1)
21	-	Gear (37T) (P/O PL 1.1 Item 1)
22	-	Bearing Sleeve (P/O PL 1.1 Item 1)
23	-	Gear (80/45T) (P/O PL 1.1 Item 1)
24	-	Shaft (P/O PL 1.1 Item 1)
25	-	Gear (45T) (P/O PL 1.1 Item 1)
26	-	Gear (35T) (P/O PL 1.1 Item 1)
27	-	Bearing (P/O PL 1.1 Item 1)
28	-	Gear (72T) (P/O PL 1.1 Item 1)
29	-	Gear (144T) (P/O PL 1.1 Item 1)
30	-	Bracket (P/O PL 1.1 Item 1)
31	-	Gear (43T) (P/O PL 1.1 Item 1)
32	-	Compression Spring (P/O PL 1.1 Item 1)
33	-	IBT Auger Coupling (P/O PL 1.1 Item 1)
34	-	Gear (53T) (P/O PL 1.1 Item 1)
35	-	Bracket (Not Spared)
36	-	Coupling (P/O PL 1.1 Item 1)
37	-	Shaft (P/O PL 1.1 Item 1)

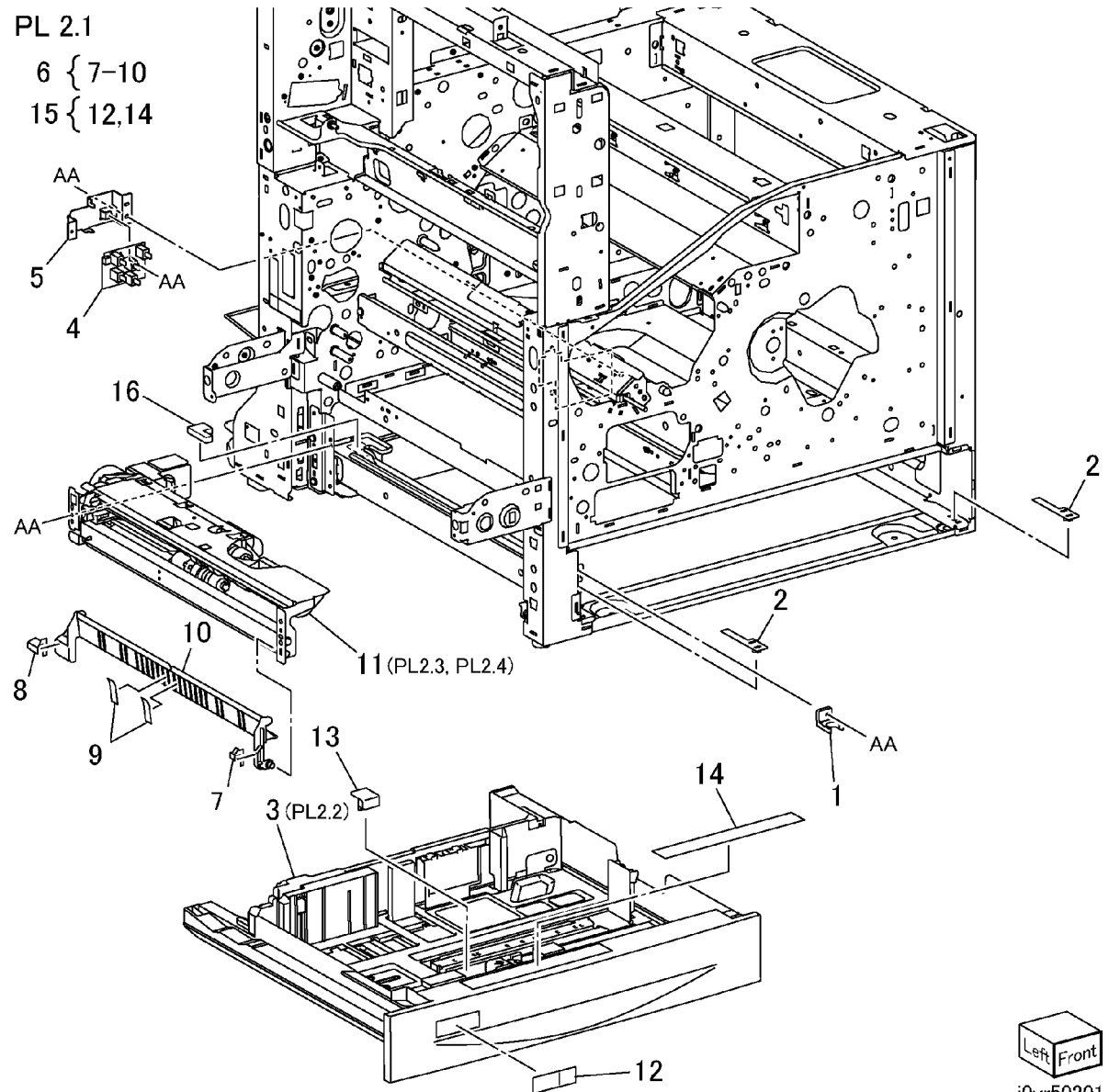
PL 1.2



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PL 2.1 Tray, Feeder Assembly

Item	Part	Description
1	003E61510	Tray Stopper
2	—	Tray Spacer (Not Spared)
3	050K53945	Tray Assembly
4	110K12100	Tray Paper Size Switch
5	—	Bracket (Not Spared)
6	054K27051	Feeder Chute Assembly (REP 2.1.1)
7	—	Pad (P/O PL 2.1 Item 6)
8	—	Pad (P/O PL 2.1 Item 6)
9	—	Paper Guide (P/O PL 2.1 Item 6)
10	054K27520	Feed Out Chute
11	059K42524	Tray 1 Feeder Assembly (REP 2.1.1)
12	—	Tray No. 1 Label (P/O PL 2.1 Item 15)
13	—	Slide Lock Block (Not Spared)
14	—	Label (Instruction) (P/O PL 2.1 Item 15)
15	604K20550	Tray Label Kit
16	—	Cushion (Not Spared)



PL 2.2 Tray 1

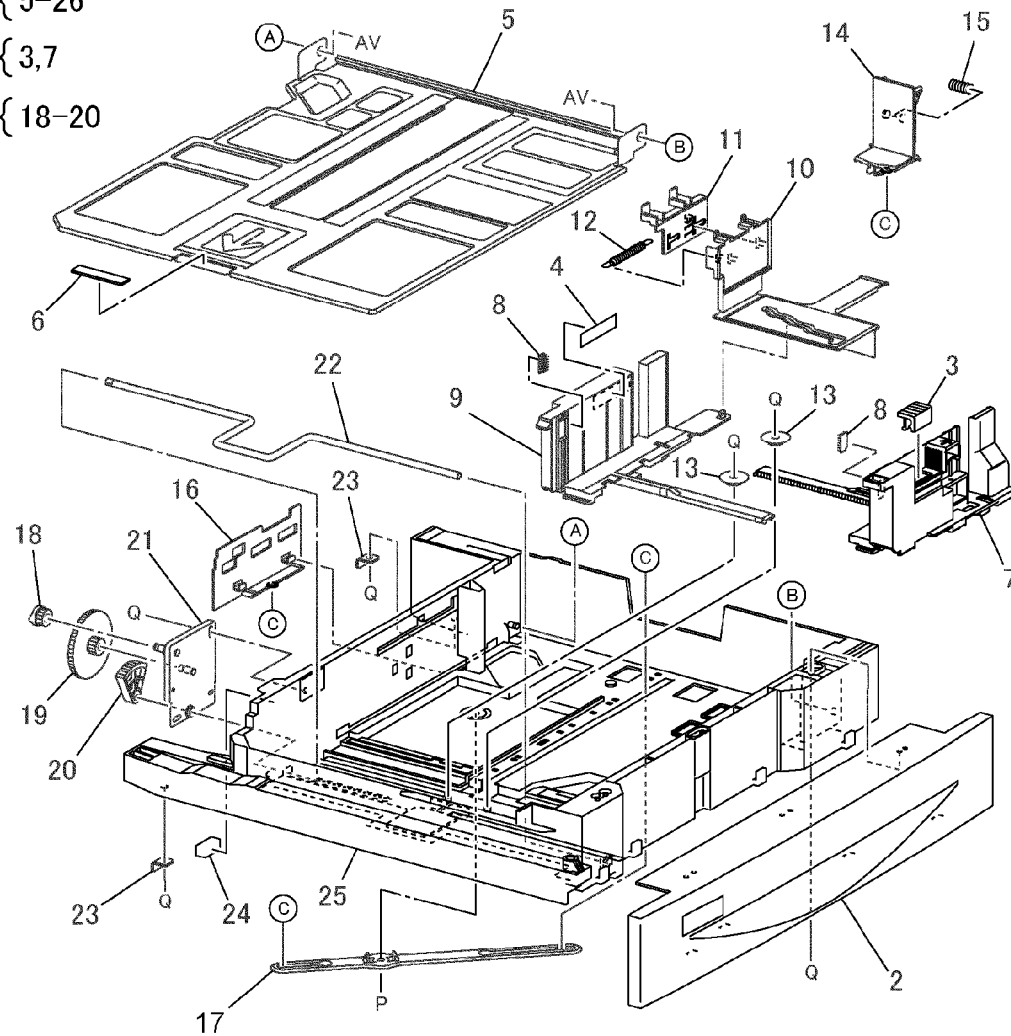
Item	Part	Description
1	-	Tray Assembly (Not Spared)
2	-	Tray Cover (Not Spared)
3	010E94240	Slide Lock
4	-	Label (Max) (P/O PL 2.2 Item 1)
5	-	Bottom Plate (P/O PL 2.2 Item 1)
6	-	Bottom Pad (P/O PL 2.2 Item 1)
7	-	Front Side Guide (P/O PL 2.2 Item 1, 7)
8	-	Tray Pad (P/O PL 2.2 Item 1)
9	-	Right Side Guide (P/O PL 2.2 Item 1)
10	-	Side Actuator (P/O PL 2.2 Item 1)
11	-	Side Actuator (P/O PL 2.2 Item 1)
12	-	Spring (P/O PL 2.2 Item 1)
13	-	Pinion (P/O PL 2.2 Item 1)
14	-	End Guide (P/O PL 2.2 Item 1)
15	-	Spring Guide (P/O PL 2.2 Item 1)
16	-	End Guide Actuator (P/O PL 2.2 Item 1)
17	-	End Link Guide (P/O PL 2.2 Item 1)
18	-	Gear (13) (P/O PL 2.2 Item 1, 27)
19	-	Gear (13/60) (P/O PL 2.2 Item 1, 27)
20	-	Gear (60) (P/O PL 2.2 Item 1, 27)
21	-	Rear Plate (P/O PL 2.2 Item 1)
22	-	Lift Shift (P/O PL 2.2 Item 1)
23	-	Right Tray Stopper (P/O PL 2.2 Item 1)
24	-	Seal (P/O PL 2.2 Item 1)
25	-	Cassette Housing (P/O PL 2.2 Item 1)
26	-	Front Side Guide (P/O PL 2.2 Item 1)
27	604K20541	Gear Tray Kit

PL 2.2

1 { 5-26

26 { 3,7

27 { 18-20

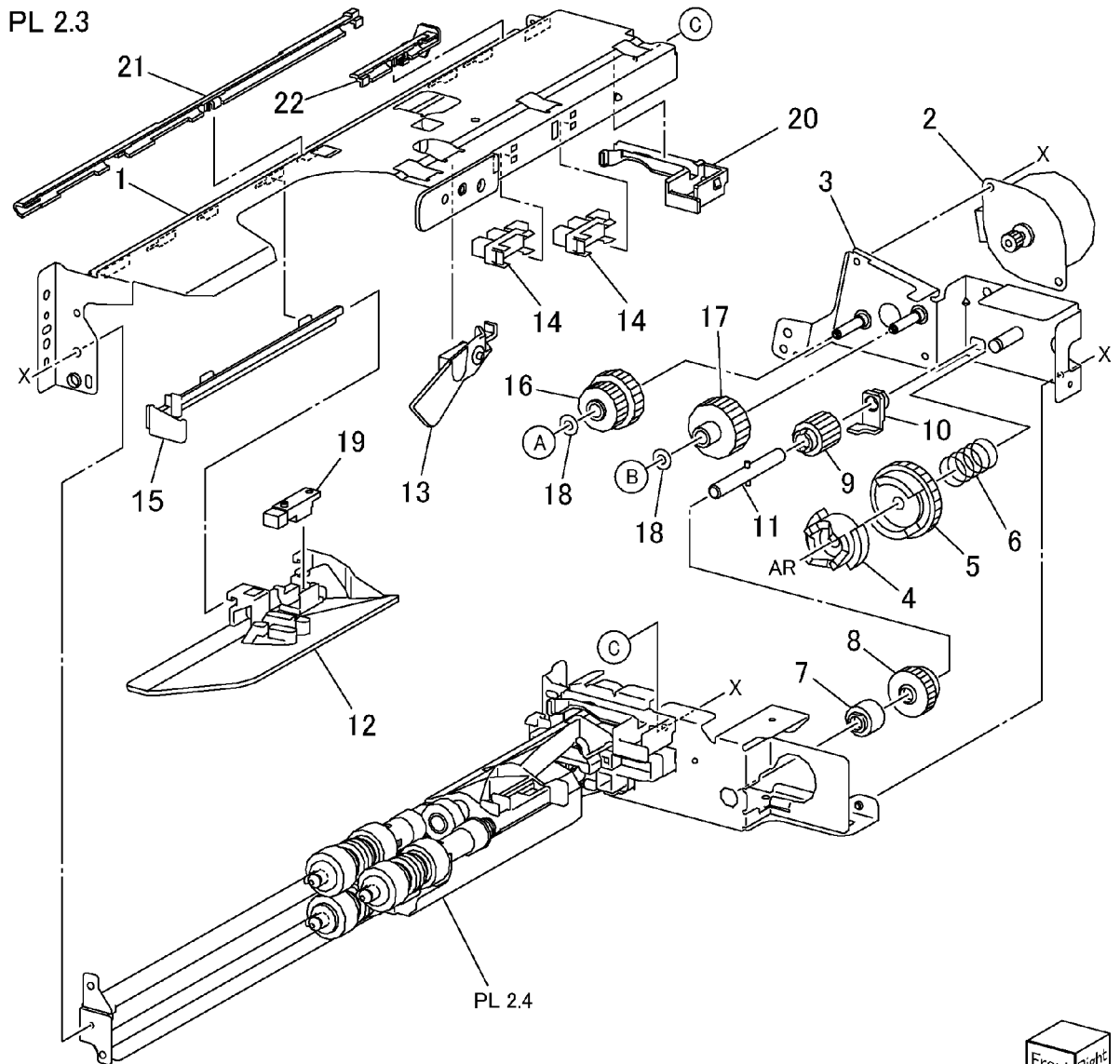


0502002A-ELA

PL 2.3 Feeder 1 Assembly (1 of 2)

Item	Part	Description
1	-	Upper Frame (P/O PL 2.1 Item 11)
2	127K38171	Tray 1 Feed Lift Motor
3	-	Drive Bracket (P/O PL 2.1 Item 11)
4	014E44770	Spacer
5	-	Gear (31) (P/O PL 2.1 Item 11)
6	-	Spring (P/O PL 2.1 Item 11)
7	-	Clutch (P/O PL 2.1 Item 11)
8	-	Gear (P/O PL 2.1 Item 11)
9	-	Gear (33T) (P/O PL 2.1 Item 11)
10	-	Bearing Shaft (P/O PL 2.1 Item 11)
11	-	Drive Shaft (P/O PL 2.1 Item 11)
12	-	Chute (P/O PL 2.1 Item 11)
13	120E22481	Actuator
14	930W00113	No Paper Sensor, Level Sensor
15	-	Rail (P/O PL 2.1 Item 11)
16	-	Gear (28/21) (P/O PL 2.1 Item 11)
17	-	Gear (29) (P/O PL 2.1 Item 11)
18	-	Washer (P/O PL 2.1 Item 11)
19	930W00211	Prefeed Sensor
20	-	Harness Rear Holder (P/O PL 2.1 Item 11)
21	-	Upper Harness Holder (P/O PL 2.1 Item 11)
22	-	Center Harness Holder (P/O PL 2.1 Item 11)

PL 2.3



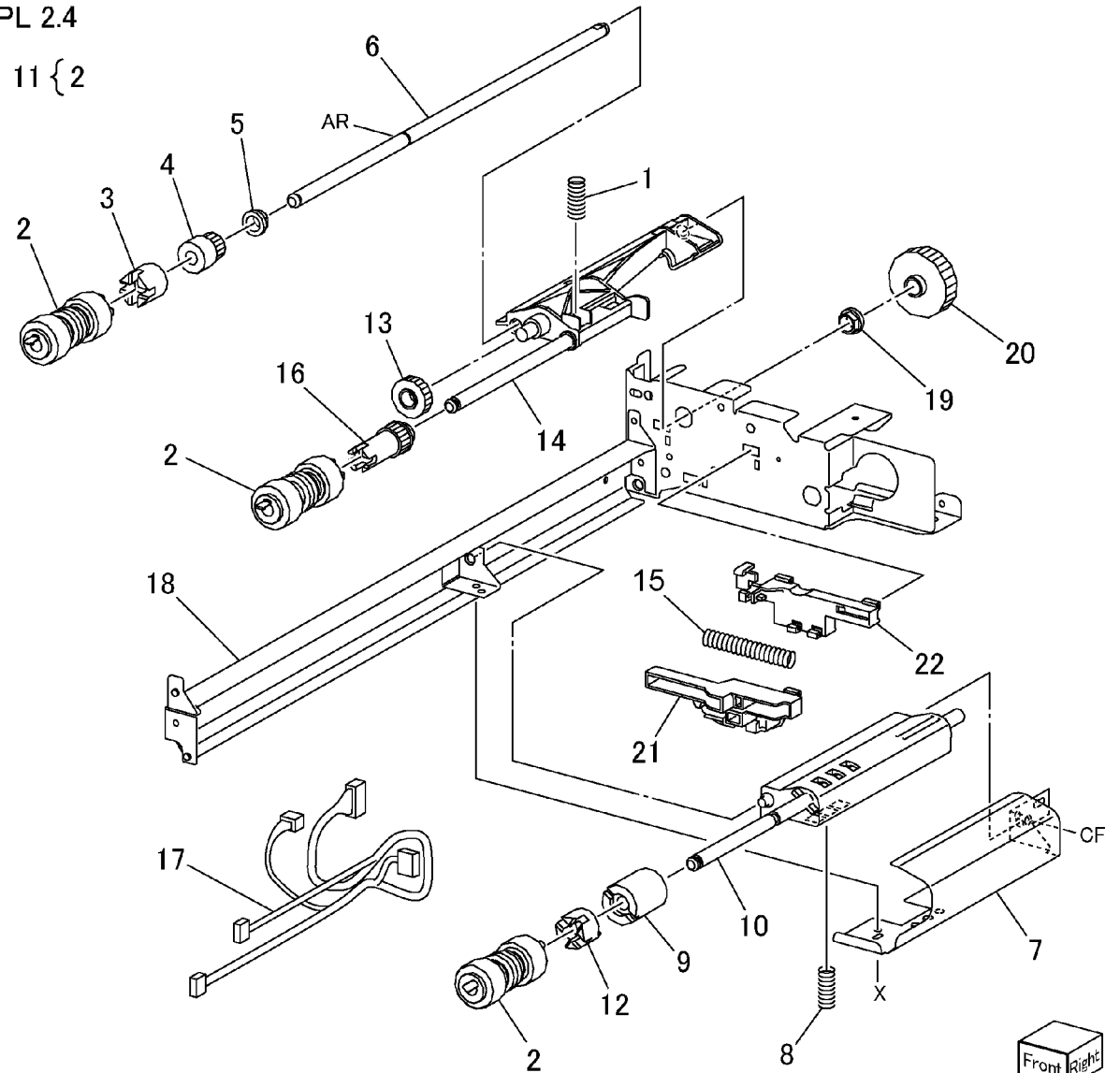
0502003A-ELA

PL 2.4 Feeder 1 Assembly (2 of 2)

Item	Part	Description
1	-	Spring (Not Spared)
2	-	Feed Roll, Nudger Roll, Prefeed Roll (Not Spared) (REP 2.3.1)
3	005K05890	Clutch
4	005K06760	Clutch (22T)
5	-	Bearing (Not Spared)
6	-	Feed Shaft (Not Spared)
7	054E23170	Feed In Chute
8	-	Retension Spring (Not Spared)
9	005K07010	Friction Clutch
10	-	Retard Support (Not Spared)
11	-	Feed Roll Tray Kit (Not Spared)
12	-	Spacer (Not Spared)
13	-	Gear (13) (Not Spared)
14	-	Support Nudger (Not Spared)
15	-	Spring (Not Spared)
16	-	Gear (25) (Not Spared)
17	962K18912	Feed Harness
18	-	Rear Frame (Not Spared)
19	-	Bearing Sleeve (Not Spared)
20	-	Gear (34) (Not Spared)
21	-	Lever (Not Spared)
22	-	Holder (Not Spared)

PL 2.4

11 { 2

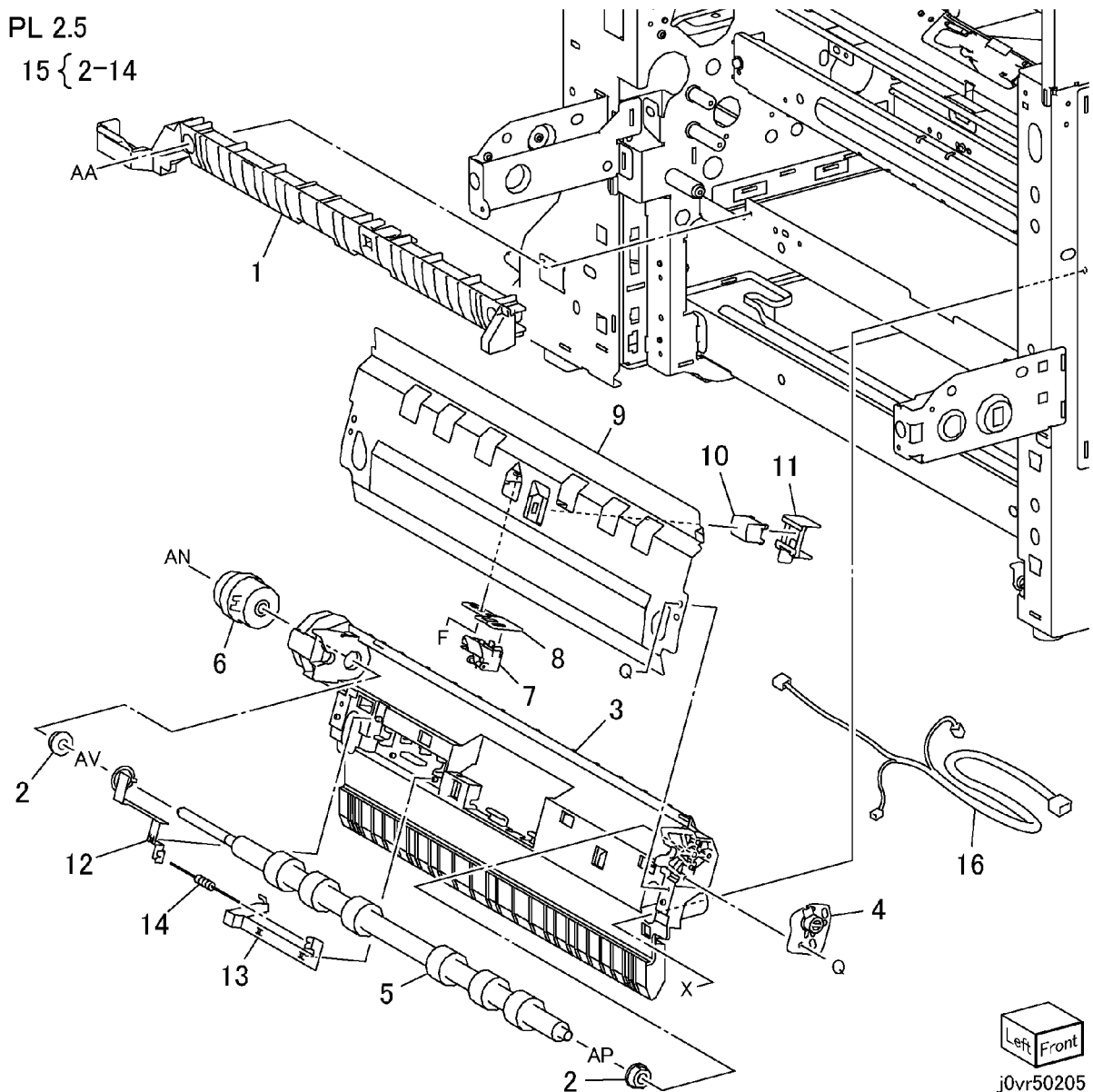


0502004A-ELA

PL 2.5 Registration

Item	Part	Description
1	-	Chute (Not Spared)
2	-	Registration Bearing (P/O PL 2.5 Item 15)
3	-	Registration Chute (P/O PL 2.5 Item 15)
4	-	Adjust Skew Block (P/O PL 2.5 Item 15)
5	059K43231	Registration Roller
6	121K38310	Registration Clutch
7	130K64270	Registration Sensor
8	-	Bracket (P/O PL 2.5 Item 15)
9	054K30271	Inlet Chute
10	130K69250	Transparency Sensor
11	-	Cap (P/O PL 2.5 Item 15)
12	-	Conductor Out (P/O PL 2.5 Item 15)
13	-	Conductor In (P/O PL 2.5 Item 15)
14	103E36650	Resistor
15	059K44171	Registration Transport Assembly (REP 2.4.1)
16	-	Registration Harness (Not Spared)

PL 2.5
15 { 2-14

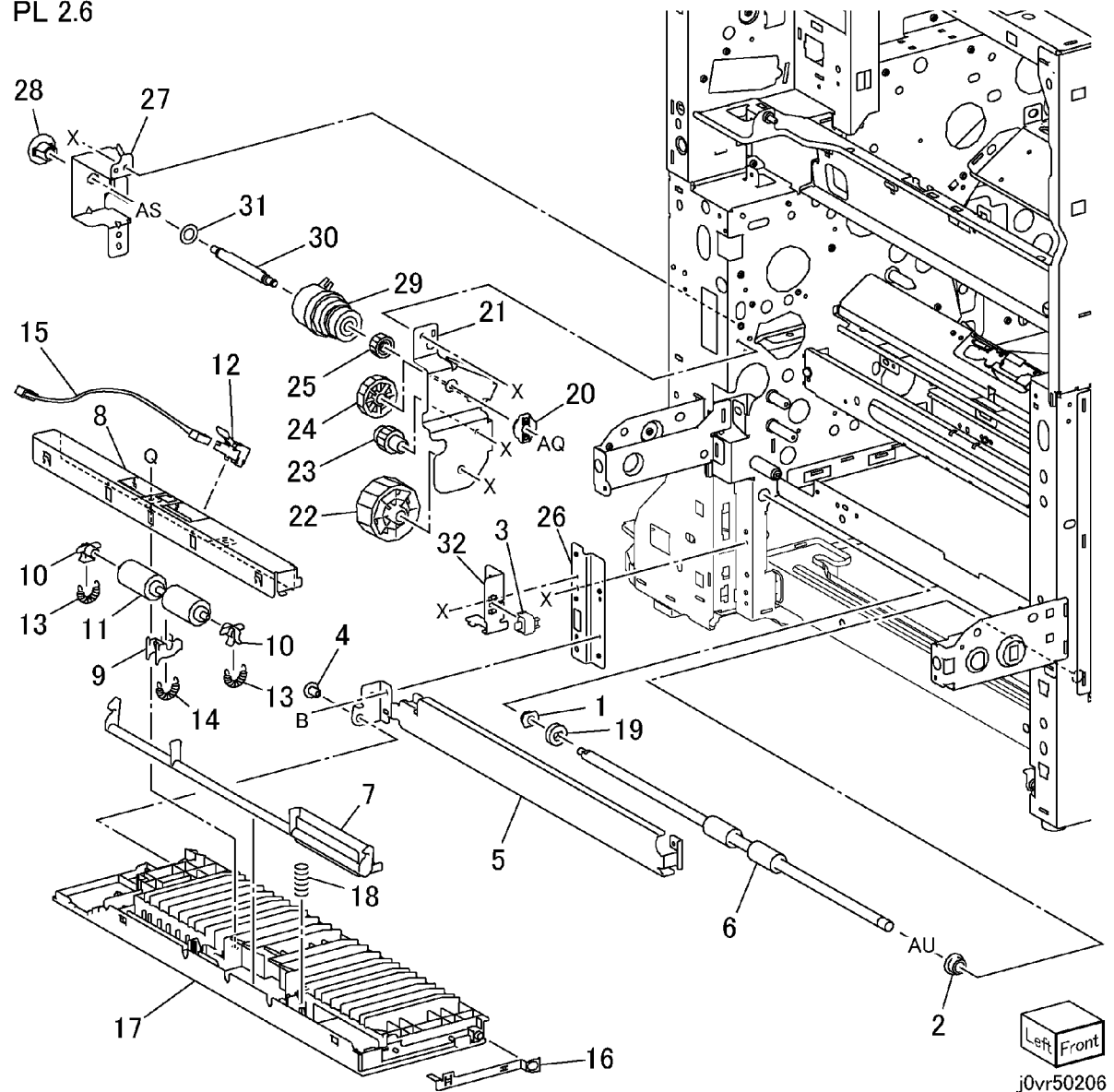


Left Front
j0vr50205

PL 2.6 Vertical Transport Cover

Item	Part	Description
1	013E29830	Bearing
2	413W77559	Bearing
3	110E11580	Lower L/H Cover Interlock
4	-	Left Low Rivet (Not Spared)
5	-	Lower Chute (Not Spared)
6	-	Tray 1 Takeaway Roll (Not Spared) (REP 2.5.1)
7	-	Left Low Handle (Not Spared)
8	-	Left Low Bracket (Not Spared)
9	-	Bearing In (Not Spared)
10	-	Bearing Out (Not Spared)
11	059E98371	Takeaway Pinch Roller
12	130K64261	Tray 1 TA Sensor
13	-	Left Low Spring (Not Spared)
14	-	Spring-In (Not Spared)
15	962K23460	Transport Sensor Harness
16	-	Earth Plate (Not Spared)
17	802E55701	Left Low Back Cover
18	-	Spring (Not Spared)
19	-	Gear (18T) (Not Spared)
20	013E26091	Bearing
21	815E27180	Idler Bracket
22	807E14650	Idler Gear (54T)
23	807E14640	Idler Gear (21T)
24	807E14630	Idler Gear (37T)
25	-	Gear (19T) (Not Spared)
26	-	Bracket (Not Spared)
27	-	Transport Bracket (Not Spared)
28	013E26060	Bearing
29	121K37120	Takeaway Clutch
30	-	Transport Shaft (Not Spared)
31	-	Washer (Not Spared)
32	-	Switch Bracket (Not Spared)

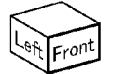
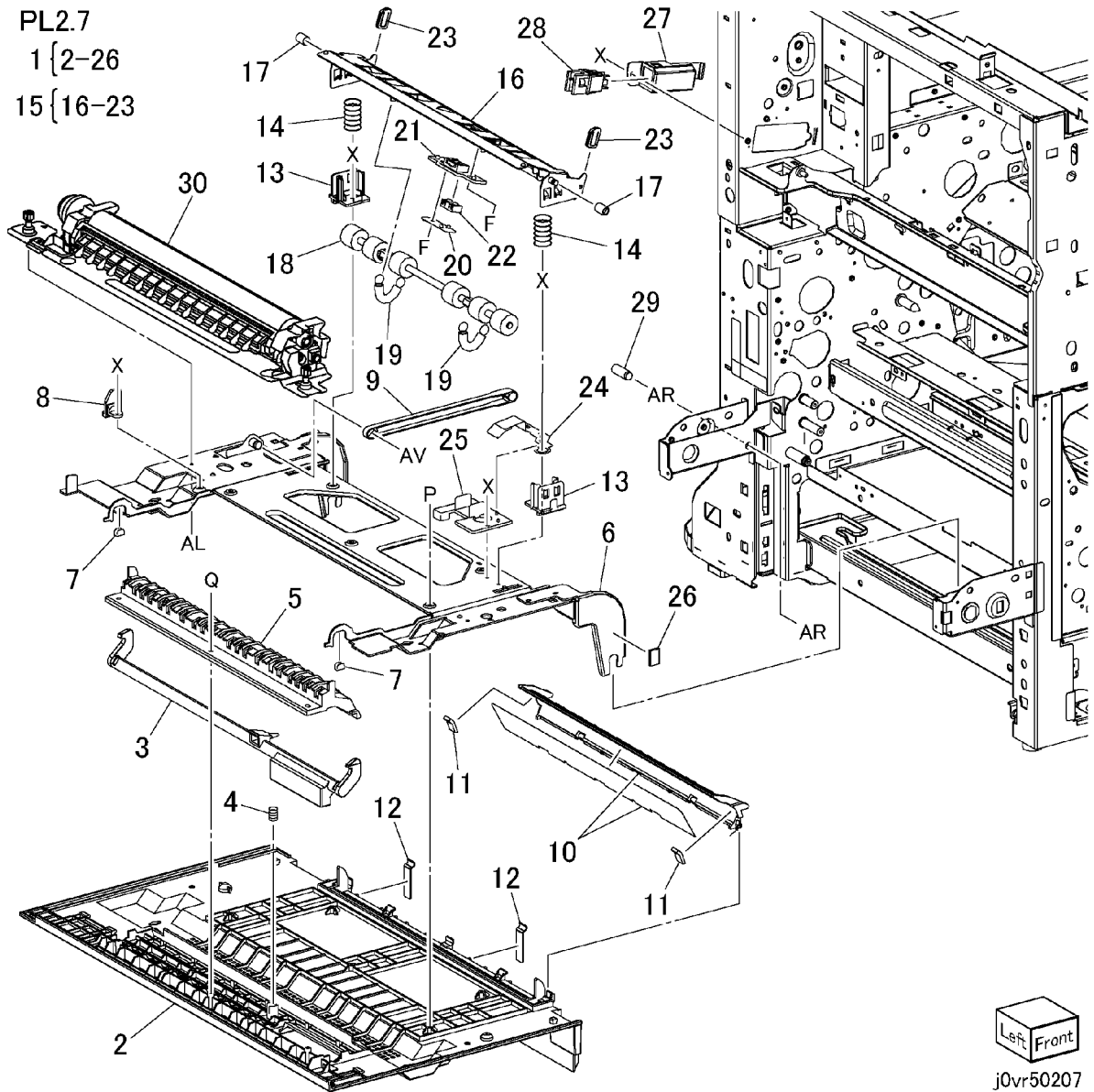
PL 2.6



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PL 2.7 Left Hand Cover

Item	Part	Description
1	802K85352	Left Hand Upper Cover Assembly (REP 2.6.2)
2	-	Left Hand Cover (P/O PL 2.7 Item 1)
3	003E65100	Handle
4	-	Spring (P/O PL 2.7 Item 1)
5	054E23950	Cover Chute
6	-	Frame (P/O PL 2.7 Item 1)
7	-	Guide Handle (P/O PL 2.7 Item 1)
8	-	Gear (P/O PL 2.7 Item 1)
9	849E67970	Cover Support
10	054K24060	Duplex Chute
11	-	Duplex Pad (P/O PL 2.7 Item 1)
12	-	Guide (P/O PL 2.7 Item 1)
13	-	Chute Support (P/O PL 2.7 Item 1)
14	-	Spring (P/O PL 2.7 Item 1)
15	054K30340	Pinch Chute Assembly
16	-	Registration Pinch Chute (P/O PL 2.7 Item 15)
17	-	Pulley (P/O PL 2.7 Item 15)
18	059K43251	Pinch Roller, Registration
19	-	Extension Spring (P/O PL 2.7 Item 15)
20	-	Cap (P/O PL 2.7 Item 15)
21	-	Holder (P/O PL 2.7 Item 15)
22	-	Reflector (P/O PL 2.7 Item 15)
23	-	Guide (P/O PL 2.7 Item 15)
24	-	Conductor (P/O PL 2.7 Item 1)
25	-	Earth Housing (P/O PL 2.7 Item 1)
26	-	Seal (P/O PL 2.7 Item 1)
27	-	Interlock Switch Bracket (Not Spared)
28	110E97990	L/H Upper Cover Interlock Switch
29	-	Stud (Not Spared)
30	008R13026	2nd BTR Roll Assembly



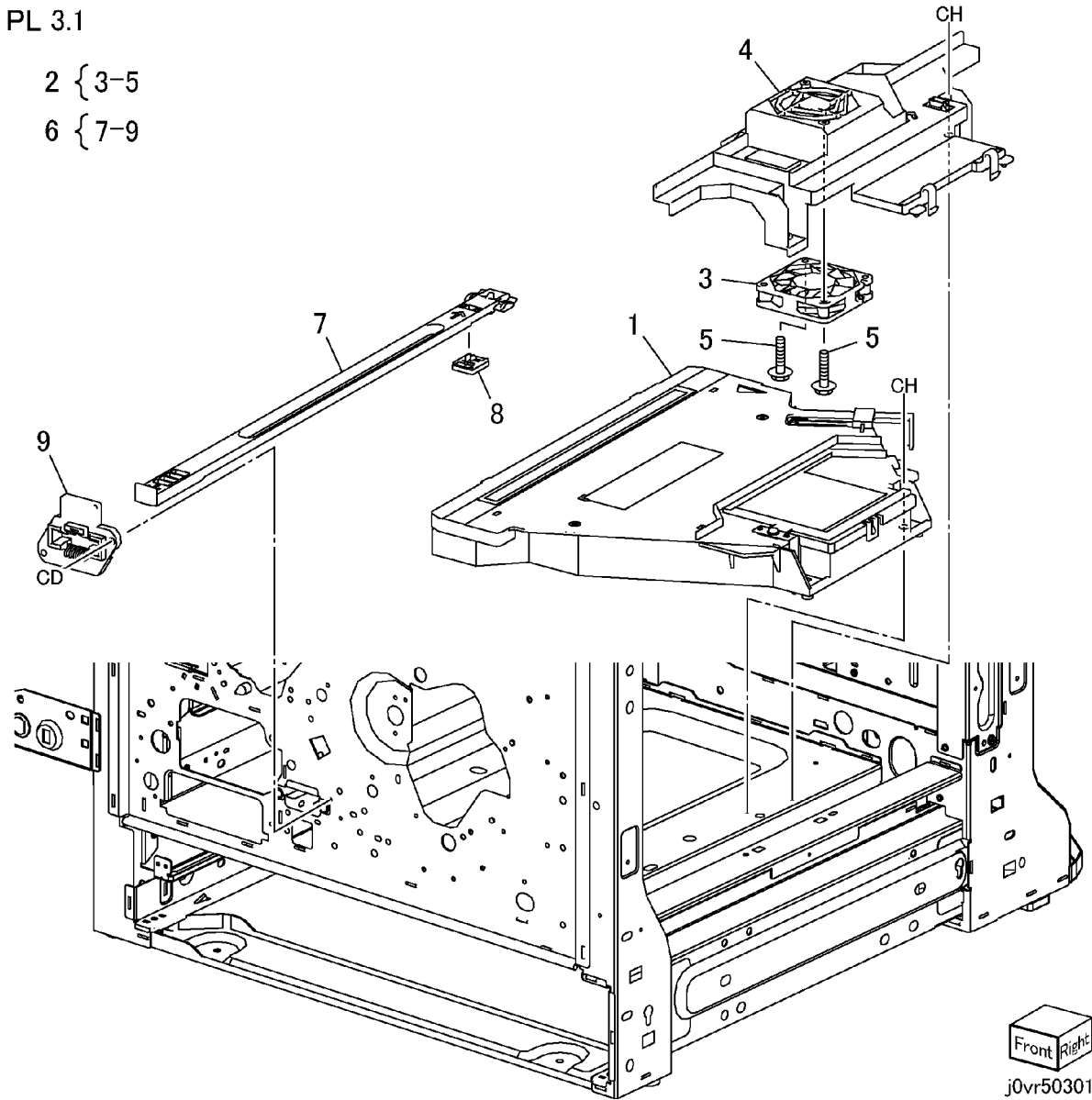
j0vr50207

PL 3.1 ROS

Item	Part	Description
1	062K16371	ROS Assembly (REP 3.1.1)
2	-	ROS Fan Assembly (Not Spared)
3	927W00111	ROS Fan
4	-	Duct (P/O PL 3.1 Item 2)
5	-	Hex Screw (P/O PL 3.1 Item 2)
6	-	ROS Cleaner Assembly (Not Spared)
7	-	Cleaner Rod (P/O PL 3.1 Item 6)
8	-	Cleaner Base (P/O PL 3.1 Item 6)
9	-	Guide Rod (P/O PL 3.1 Item 6)

PL 3.1

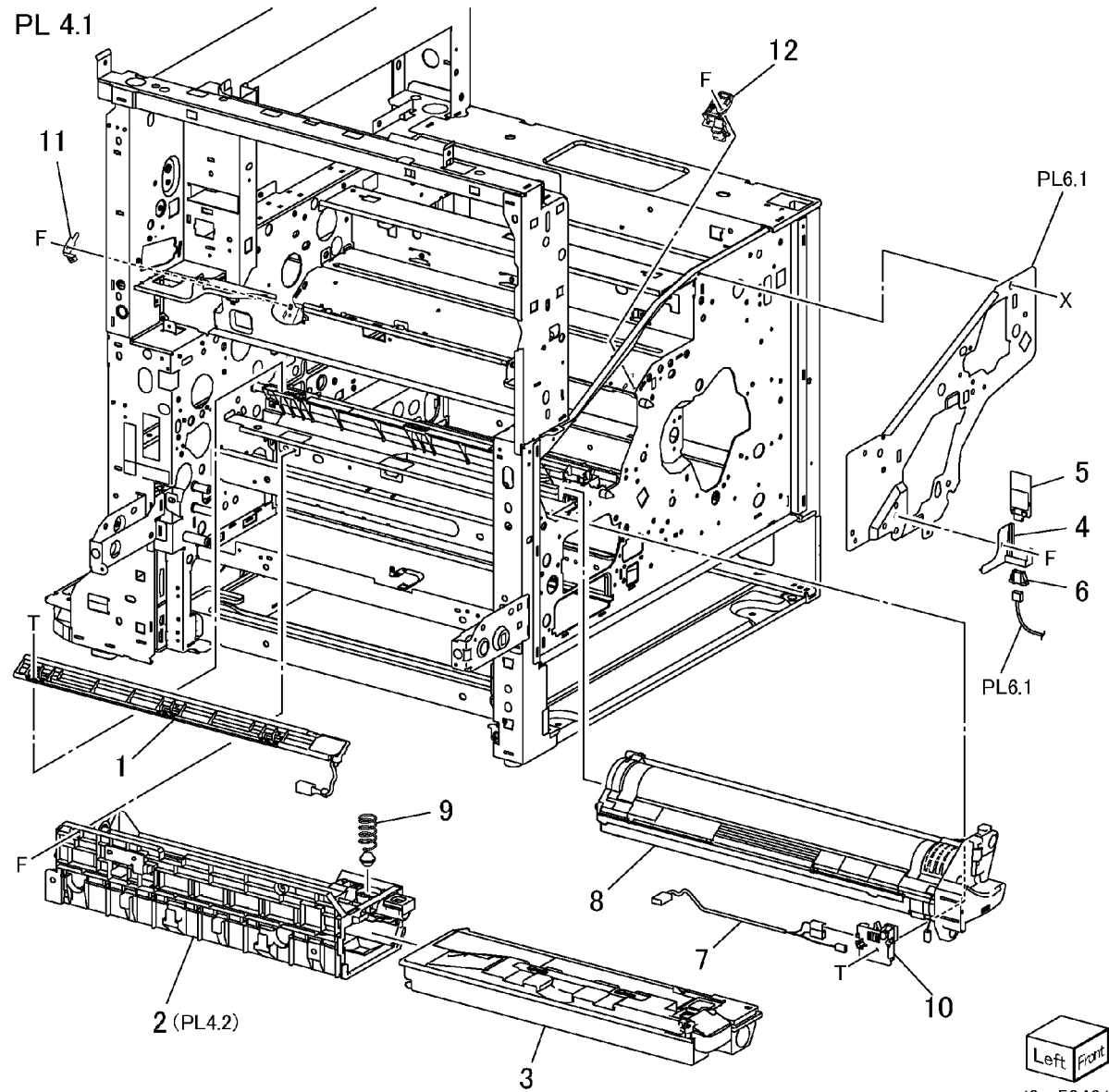
- 2 { 3-5
- 6 { 7-9



Front Right
j0vr50301

PL 4.1 Drum Assembly, Waste Bottle Assembly

Item	Part	Description
1	122K93890	Lamp, Erase Assembly
2	032K98501	Waste Bottle Guide Assembly
3	-	Waste Toner Bottle (Not Spared)
4	-	Holder PWB Crum (Not Spared)
5	160K95831	Xero Crum PWB (CP1)
6	-	Connector (Not Spared)
7	962K36820	Harness
8	-	Xerographic Drum Module (Not Spared) (REP 4.2.3)
9	-	Spiral Paddle (Not Spared)
10	110K13041	Xero Interlock Switch
11	-	Plate (Not Spared)
12	-	Support (Not Spared)



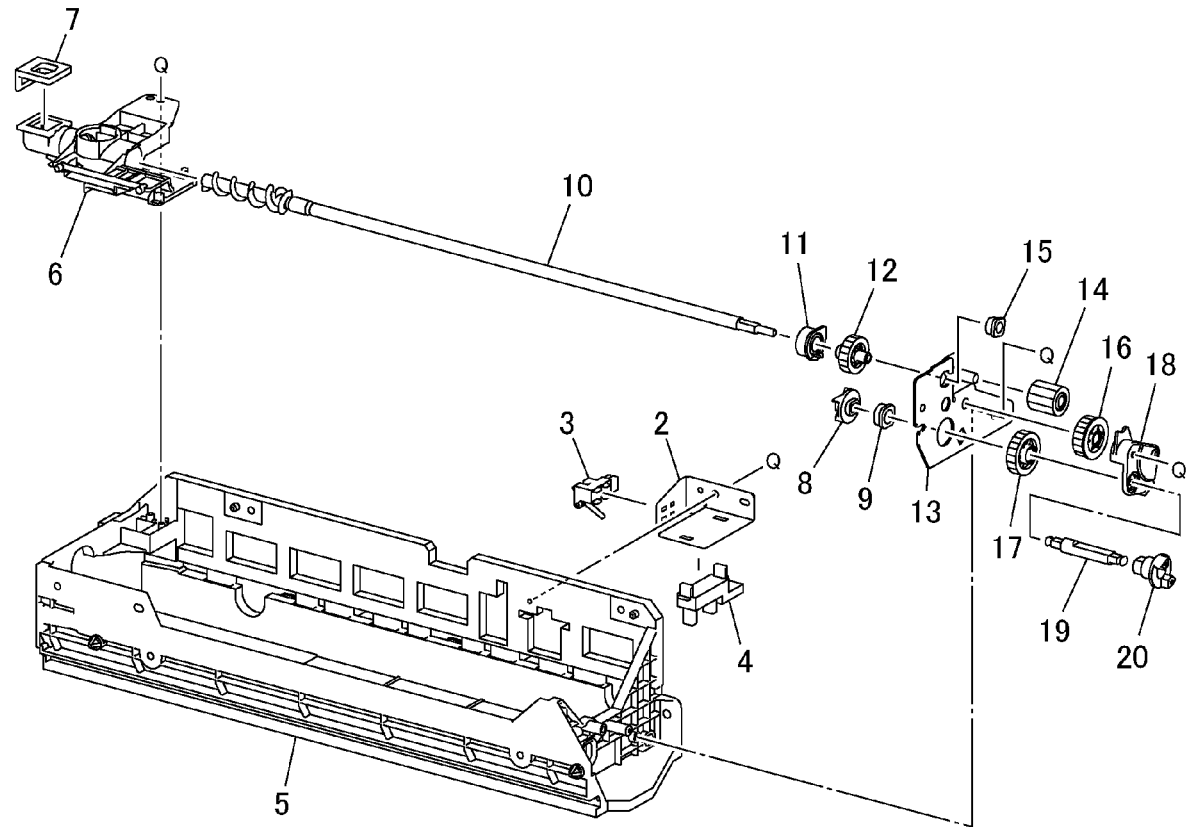
Left Front
j0vr50401

PL 4.2 Waste Bottle Guide Assembly

Item	Part	Description
1	068K29580	Bracket Sensor Assembly
2	-	Bracket Sensor (P/O PL 4.2 Item 1)
3	-	Present Sensor (P/O PL 4.2 Item 1)
4	-	Toner Full Sensor (P/O PL 4.2 Item 1)
5	-	Waste Bottle Guide (P/O PL 4.1 Item 2)
6	-	Pipe Collector (P/O PL 4.1 Item 2)
7	835E02121	Toner Seal
8	005E89320	Middle Coupling
9	-	Bearing Sleeve (P/O PL 4.1 Item 2)
10	-	Auger Shaft (P/O PL 4.1 Item 2)
11	-	Auger Bearing (P/O PL 4.1 Item 2)
12	807E12770	Gear (22T)
13	-	IB Bracket (P/O PL 4.1 Item 2)
14	807E12760	Gear (17T)
15	-	Bearing Sleeve (P/O PL 4.1 Item 2)
16	807E12750	Gear (24T)
17	807E12740	Gear (26T)
18	-	Thrust Guide (P/O PL 4.1 Item 2)
19	-	Shaft Slide (P/O PL 4.1 Item 2)
20	005E89310	Self Locate Coupling

PL 4.2

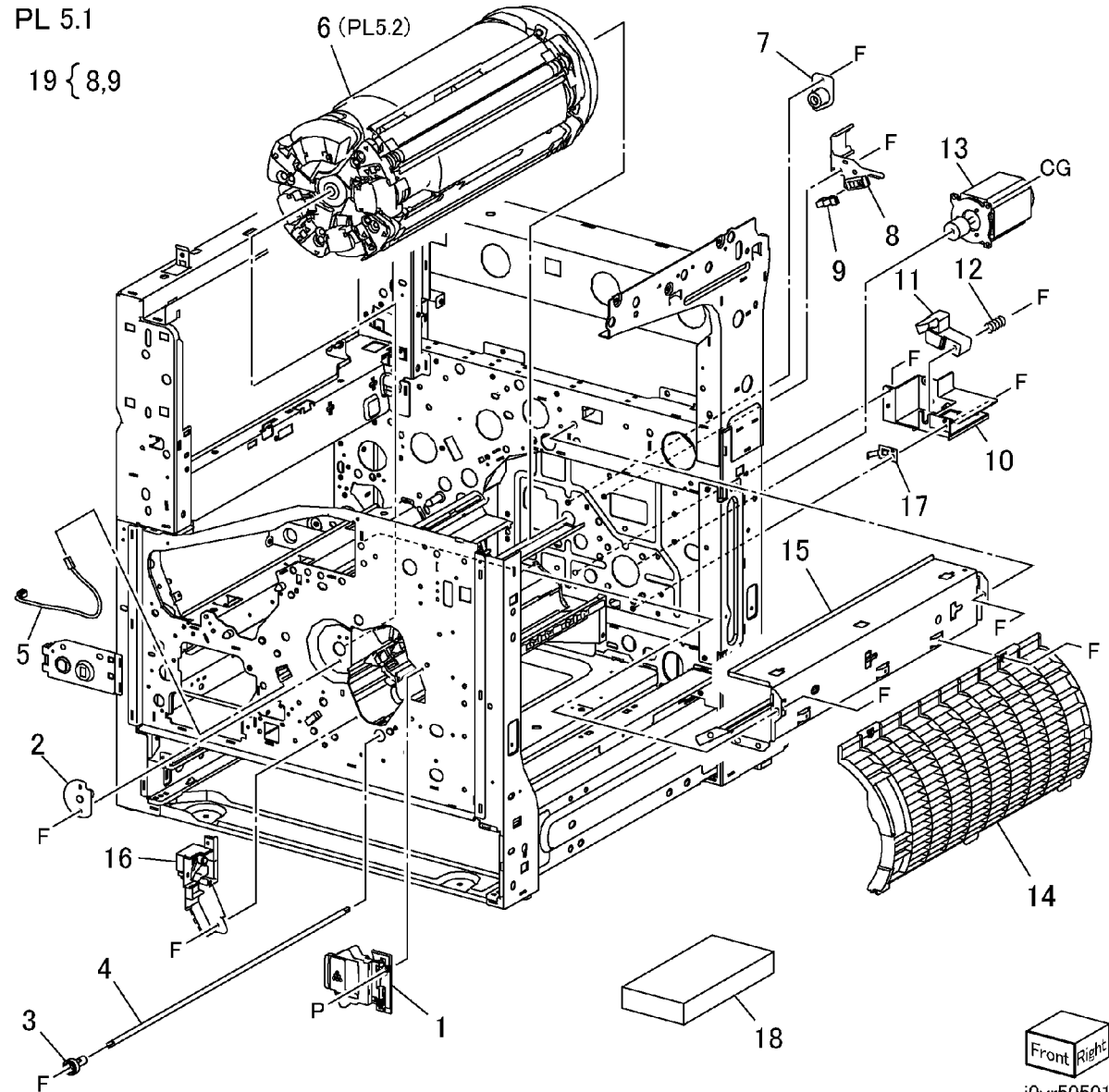
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j0vr50402

PL 5.1 Developer Component

Item	Part	Description
1	802K86741	Toner Cartridge Door
2	-	Rotary Plate (Not Spared)
3	-	Cap Lock (Not Spared)
4	-	Shaft Lock (Not Spared)
5	117K37281	Developer Wire
6	-	Rotary Assembly (Not Spared)
7	-	Rotary Holder (Not Spared)
8	930W00111	Sensor Plate
9	-	Rotary House Sensor (P/O PL 5.1 Item 19)
10	-	Harness Cover (Not Spared)
11	-	Rotary Block (Not Spared)
12	-	Lock Spring (Not Spared)
13	127K48861	Rotary Motor (REP 4.2.6)
14	-	Rotary Cover (Not Spared) (REP 4.1.1)
15	-	IBT Tie Cleaner Plate (Not Spared)
16	014K82501	Toner Cartridge Door Lock
17	-	Ground Plate (Not Spared)
18	675K38910	Developer K (REP 4.2.7)
-	675K38920	Developer C (REP 4.2.7)
-	675K38940	Developer Y (REP 4.2.7)
-	675K38930	Developer M (REP 4.2.7)
19	130K69210	Rotary Sensor Assembly



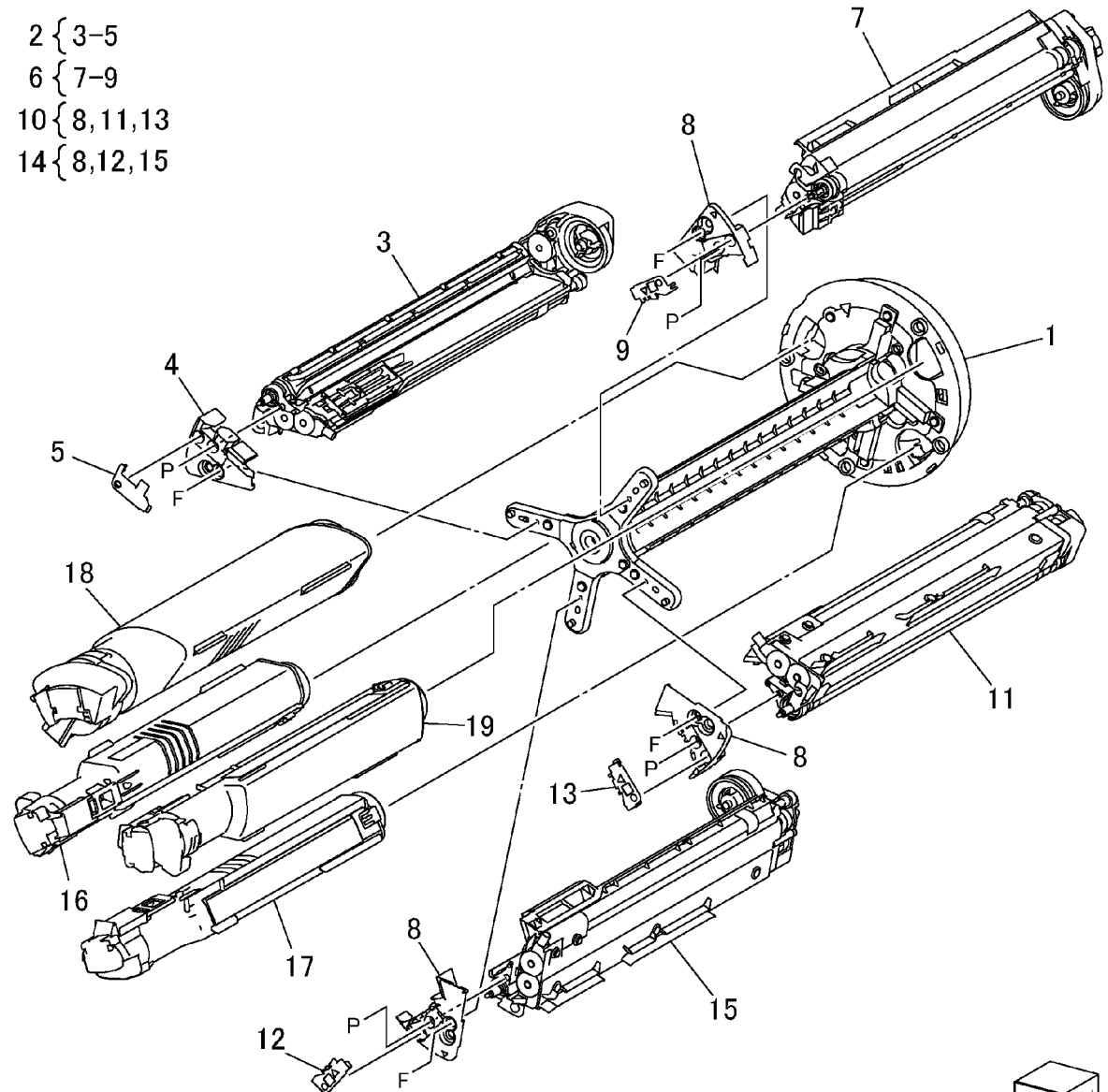
Front Right
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PL 5.2 Developer Housing, Developer Cartridge

Item	Part	Description
1	–	Rotary Frame (Not Spared)
2	802K83411	Developer K Housing (Developer not included, must order PL5.1 Item 18) (REP 4.1.1)
3	–	Developer Housing K (P/O PL 5.2 Item 2)
4	–	Front Cover K (P/O PL 5.2 Item 2)
5	–	Out Cover K (P/O PL 5.2 Item 2)
6	802K83550	Cyan Developer Housing Assembly (Developer not included, must order PL5.1 Item 18) (REP 4.1.1)
7	–	Developer Housing C (P/O PL 5.2 Item 6)
8	–	Front Cover (P/O PL 5.2 Item 6, 10, 14)
9	–	Cyan Out Cover (P/O PL 5.2 Item 6)
10	802K83530	Magenta Developer Housing Assembly (Developer not included, must order PL5.1 Item 18) (REP 4.1.1)
11	–	Magenta Developer Housing (P/O PL 5.2 Item 10)
12	–	Yellow Out Cover (P/O PL 5.2 Item 14)
13	–	Magenta Out Cover (P/O PL 5.2 Item 10)
14	802K83491	Yellow Developer Housing Assembly (Developer not included, must order PL5.1 Item 18) (REP 4.1.1)
15	–	Yellow Developer Housing (P/O PL 5.2 Item 14)
16	–	Toner Cartridge (Yellow) (Not Spared) (REP 4.1.2)
17	–	Toner Cartridge (Magenta) (Not Spared) (REP 4.1.2)
18	–	Toner Cartridge (Black) (Not Spared) (REP 4.1.2)
19	–	Toner Cartridge (Cyan) (Not Spared) (REP 4.1.2)

PL 5.2

- 2 { 3-5
 6 { 7-9
 10 { 8, 11, 13
 14 { 8, 12, 15

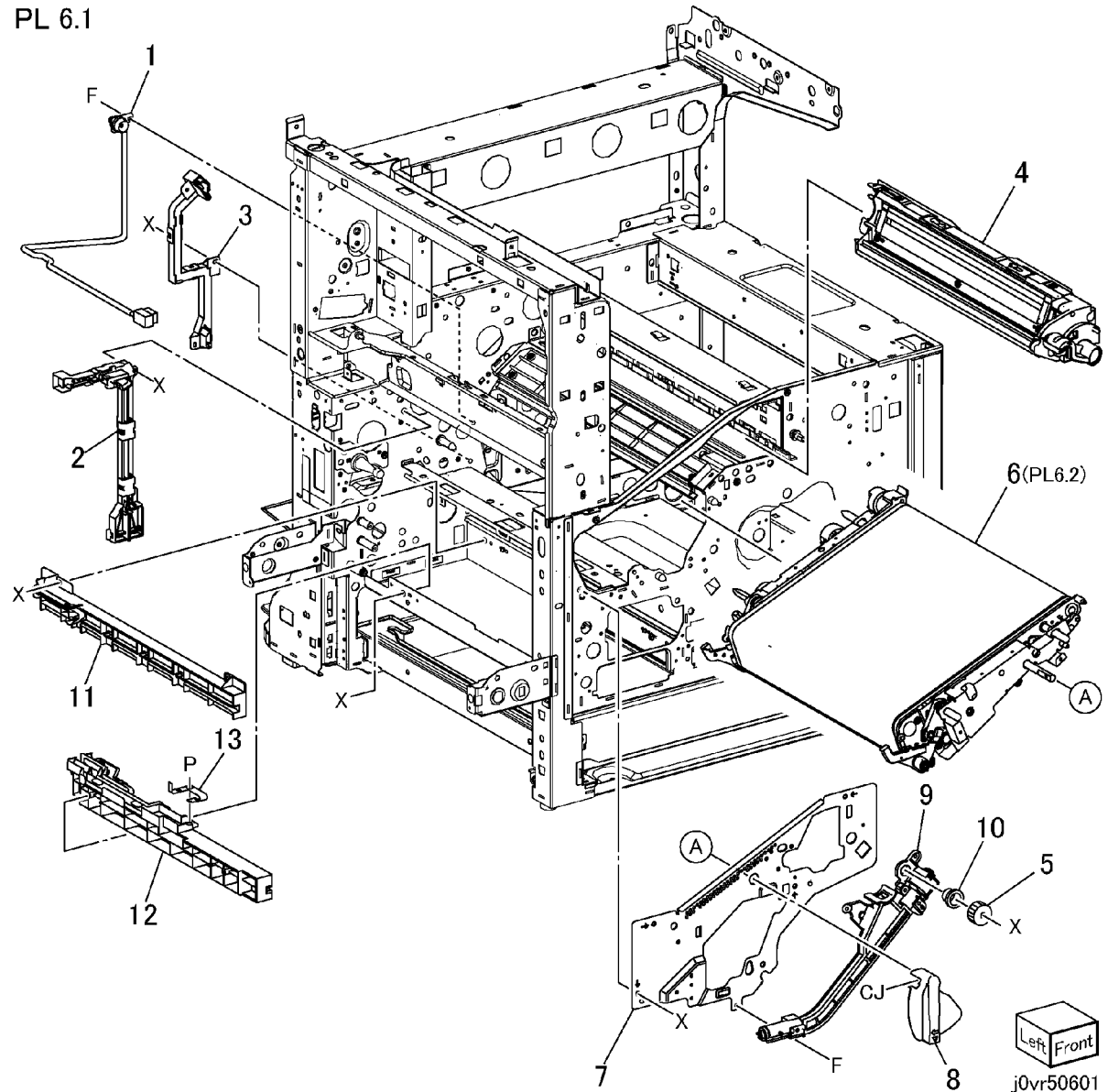


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PL 6.1 IBT, 2nd BTR, IBT Cleaner Assembly

Item	Part	Description
1	114K82130	BCR Connector
2	-	Wire Housing (Not Spared)
3	101K52060	Wire Housing
4	-	IBT Belt Cleaner (Not Spared) (REP 4.2.4)
5	-	Gear (21T)
6	064K92402	IBT Belt Assembly (REP 4.2.2)
7	-	Main Frame (Not Spared)
8	-	BCR 1 Retract Handle (Not Spared)
9	802K85320	Front Auger
10	-	Bearing Sleeve (Not Spared)
11	-	HVPS Right Housing (Not Spared)
12	-	HVPS Left Housing (Not Spared)
13	-	BCR Conductor (Not Spared)

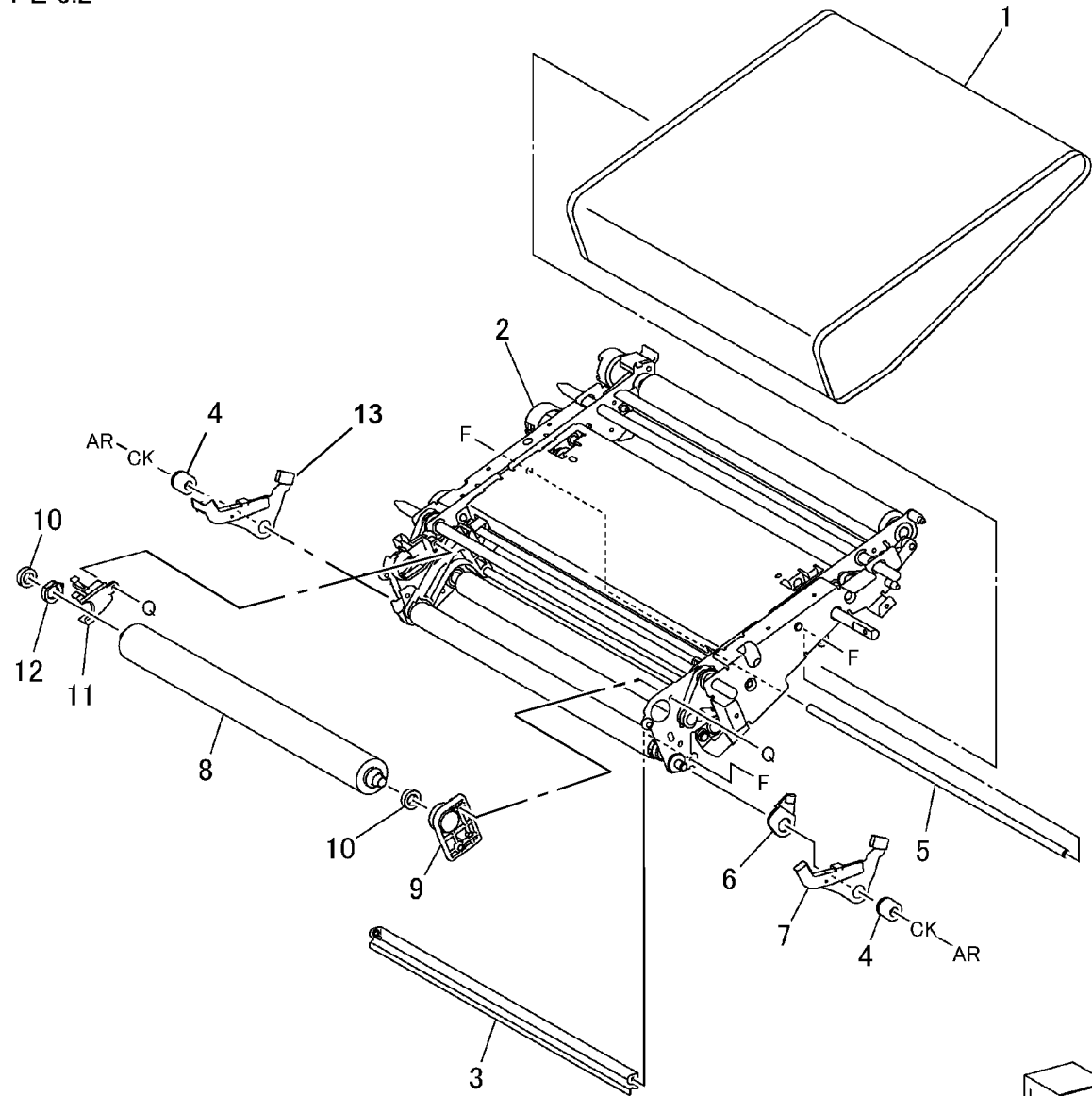
PL 6.1



PL 6.2 IBT Belt Assembly

Item	Part	Description
1	064K92332	IBT Belt (REP 4.2.5)
2	–	IBT Frame (P/O PL 6.1 Item 6)
3	–	Lower Tie Plate (P/O PL 6.1 Item 6)
4	–	Bearing (P/O PL 6.1 Item 6)
5	–	BTR 1 Retract Shaft (P/O PL 6.1 Item 6)
6	–	Spacer (P/O PL 6.1 Item 6)
7	031K93360	Contact Arm
8	059K43080	Backup Roll
9	–	Roll Bur Housing (P/O PL 6.1 Item 6)
10	–	Ball Bearing (P/O PL 6.1 Item 6)
11	–	Bias BUR Cover (P/O PL 6.1 Item 6)
12	–	Conductive BUR Bearing (P/O PL 6.1 Item 6)
13	031K93370	Rear Contact Arm

PL 6.2



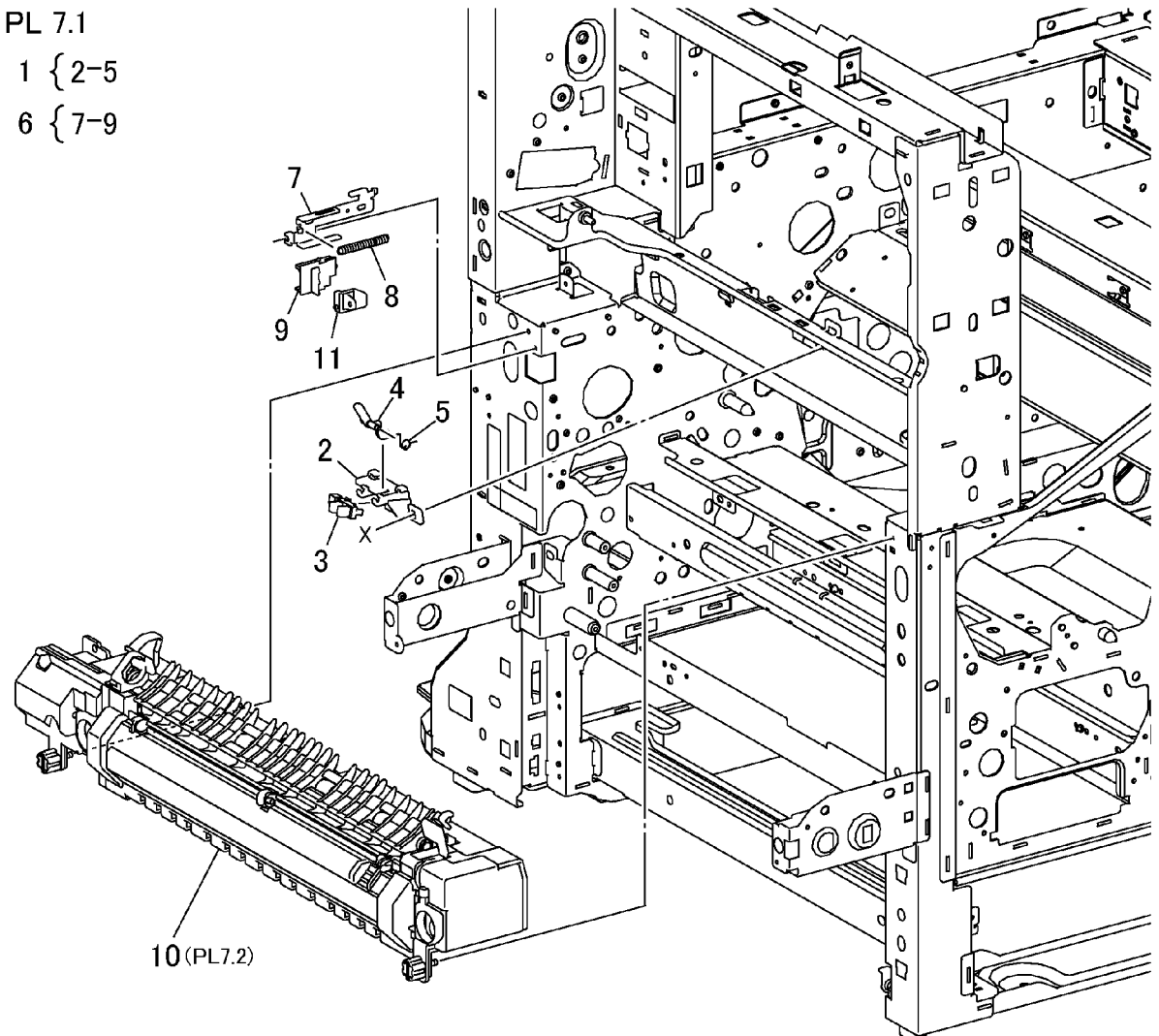
j0vr50602

PL 7.1 Fuser Unit

Item	Part	Description
1	015K71820	Exit Bracket Assembly
2	-	Exit Sensor Holder (P/O PL 7.1 Item 1)
3	-	Fuser Exit Sensor (P/O PL 7.1 Item 1)
4	-	Exit Actuator (P/O PL 7.1 Item 1)
5	-	Actuator Spring (P/O PL 7.1 Item 1)
6	012K94820	Drive Link Assembly
7	-	Link Housing (P/O PL 7.1 Item 6)
8	-	Exit Link Spring (P/O PL 7.1 Item 6)
9	-	Drive Link (P/O PL 7.1 Item 6)
10	008R13022	Fuser Assembly (110V) (REP 5.1.1)
-	008R13023	Fuser Assembly (220V) (REP 5.1.1)
11	-	Link (Not Spared)

PL 7.1

1 { 2-5
6 { 7-9



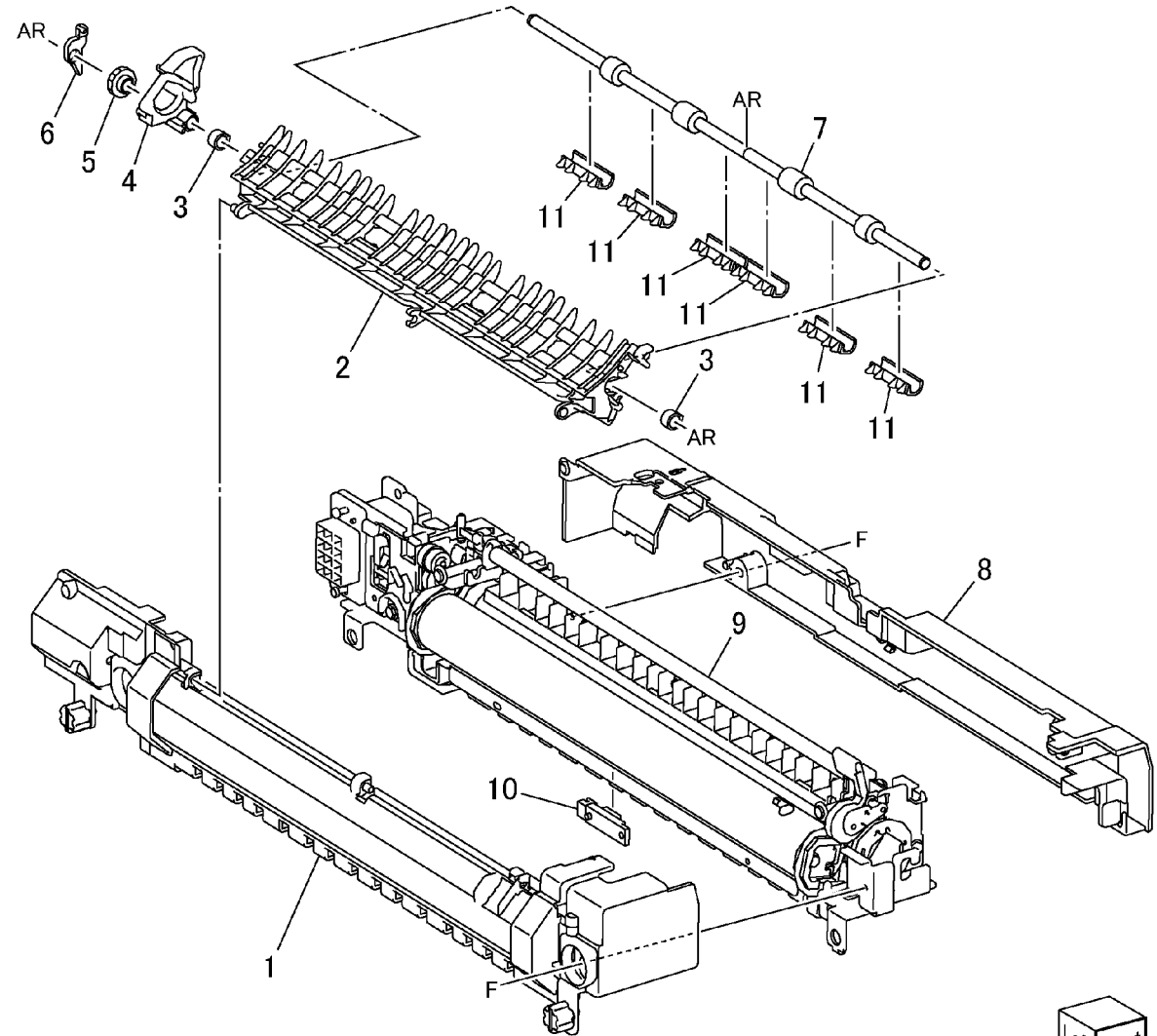
Left Front

j0vr50701

PL 7.2 Fuser Component

Item	Part	Description
1	–	Base Cover (P/O PL 7.1 Item 10)
2	–	Low Chute (P/O PL 7.1 Item 10)
3	–	Bearing (P/O PL 7.1 Item 10)
4	–	Handle (P/O PL 7.1 Item 10)
5	–	Gear (15T) (P/O PL 7.1 Item 10)
6	–	Bearing (P/O PL 7.1 Item 10)
7	059K43200	Exit Roll
8	–	Base Cover (P/O PL 7.1 Item 10)
9	–	Fuser Frame (P/O PL 7.1 Item 10)
10	–	POB/APS Long Sensor (P/O PL 7.1 Item 10)
11	–	Decurler Cover (P/O PL 7.1 Item 10)

PL 7.2

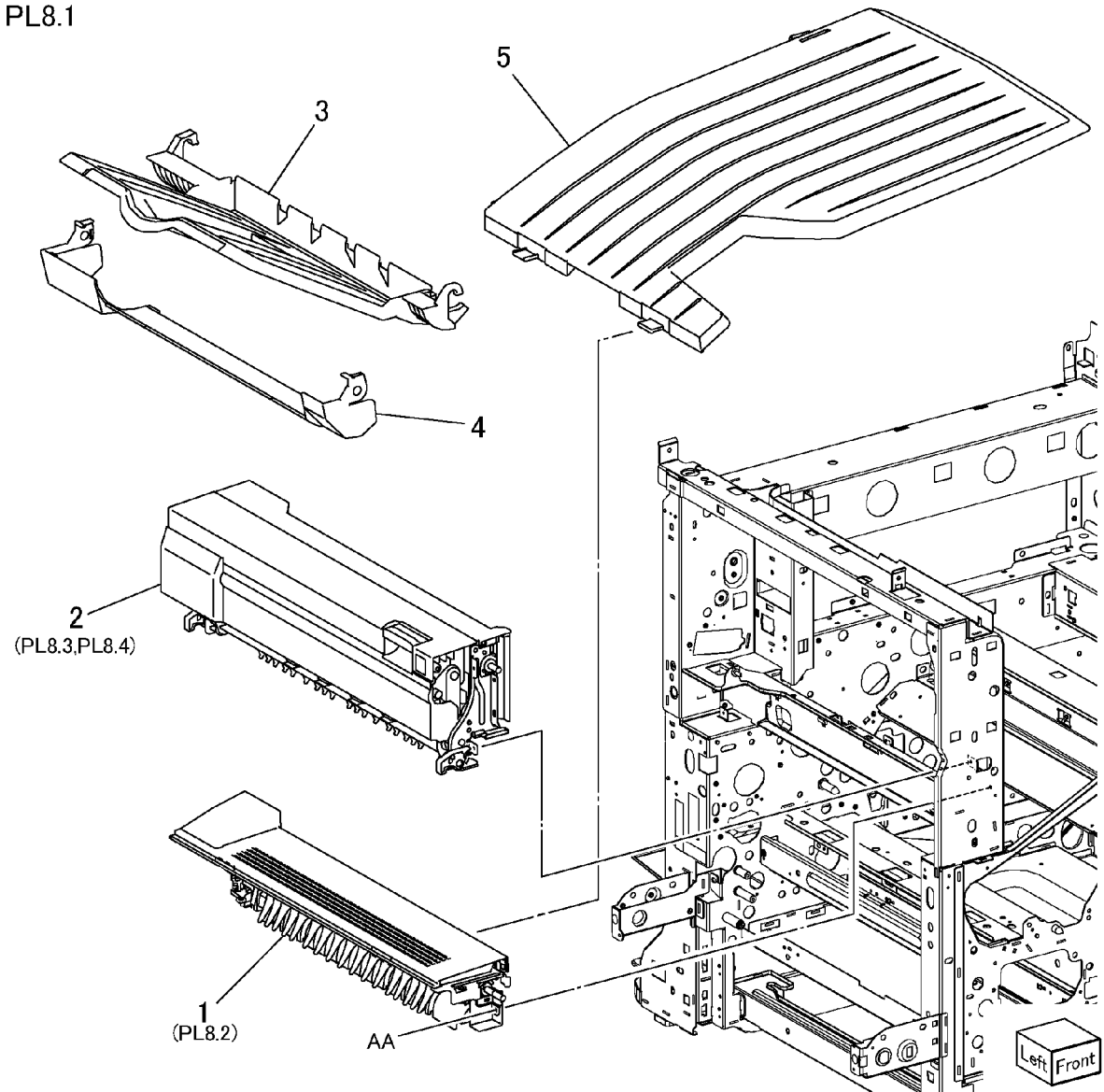


Left Front
j0vr50702

PL 8.1 Exit

Item	Part	Description
1	-	Exit 1 Assembly (Not Spared)
2	059K44020	Exit 2 Transport Assembly (REP 6.1.1)
3	050K51100	Face-up Tray
4	-	Tray Cover (Not Spared)
5	050E20162	Exit 2 Tray

PL8.1



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PL 8.2 Exit 1

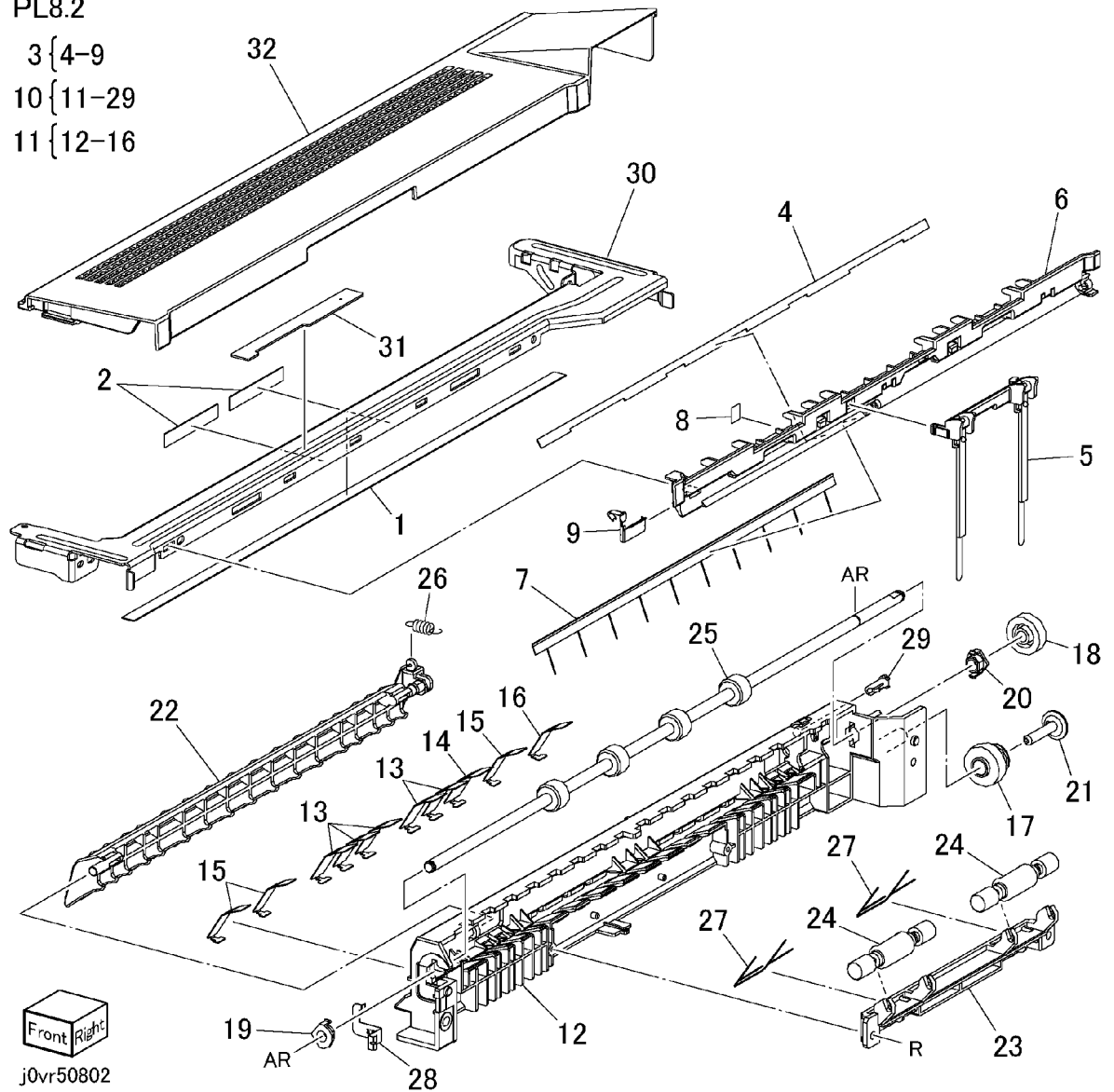
Item	Part	Description
1	-	Pad-Exit A (Not Spared)
2	-	Pad-Exit B (Not Spared)
3	038K89120	Exit 1 Guide Assembly
4	-	Pad-Exit C (P/O PL 8.2 Item 3)
5	-	Paper Weight (P/O PL 8.2 Item 3)
6	-	Exit 1 Tray Guide (P/O PL 8.2 Item 3)
7	-	Exit 1 Static Eliminator (P/O PL 8.2 Item 3)
8	-	Gasket (P/O PL 8.2 Item 3)
9	-	Earth Plate (P/O PL 8.2 Item 3)
10	059K44011	Exit 1 Transport Assembly
11	-	Low Chute Assembly
12	-	Low Chute (P/O PL 8.2 Item 12)
13	-	Seal-V1 (P/O PL 8.2 Item 11)
14	-	Seal-V2 (P/O PL 8.2 Item 11)
15	-	Seal-V3 (P/O PL 8.2 Item 11)
16	-	Seal-V4 (P/O PL 8.2 Item 11)
17	-	Exit Gear (P/O PL 8.2 Item 10)
18	-	Gear (19Z) (P/O PL 8.2 Item 10)
19	013E25550	Bearing
20	-	Bearing (P/O PL 8.2 Item 10)
21	-	Cap (P/O PL 8.2 Item 10)
22	-	Exit 1 Gate (P/O PL 8.2 Item 10)
23	-	Exit 1 Support (P/O PL 8.2 Item 10)
24	059E02150	Pinch Exit Roller
25	059K43000	Exit 1 Roller
26	-	Gate Spring (P/O PL 8.2 Item 10)
27	-	Pinch Exit Spring (P/O PL 8.2 Item 10)
28	-	Earth Plate (P/O PL 8.2 Item 10)
29	-	Gate Stopper (P/O PL 8.2 Item 10)
30	-	Exit 2 Bracket (Not Spared)
31	-	Exit 1 Label (Not Spared)
32	-	Top Exit Cover (Not Spared)

PL8.2

3 { 4-9

10 { 11-29

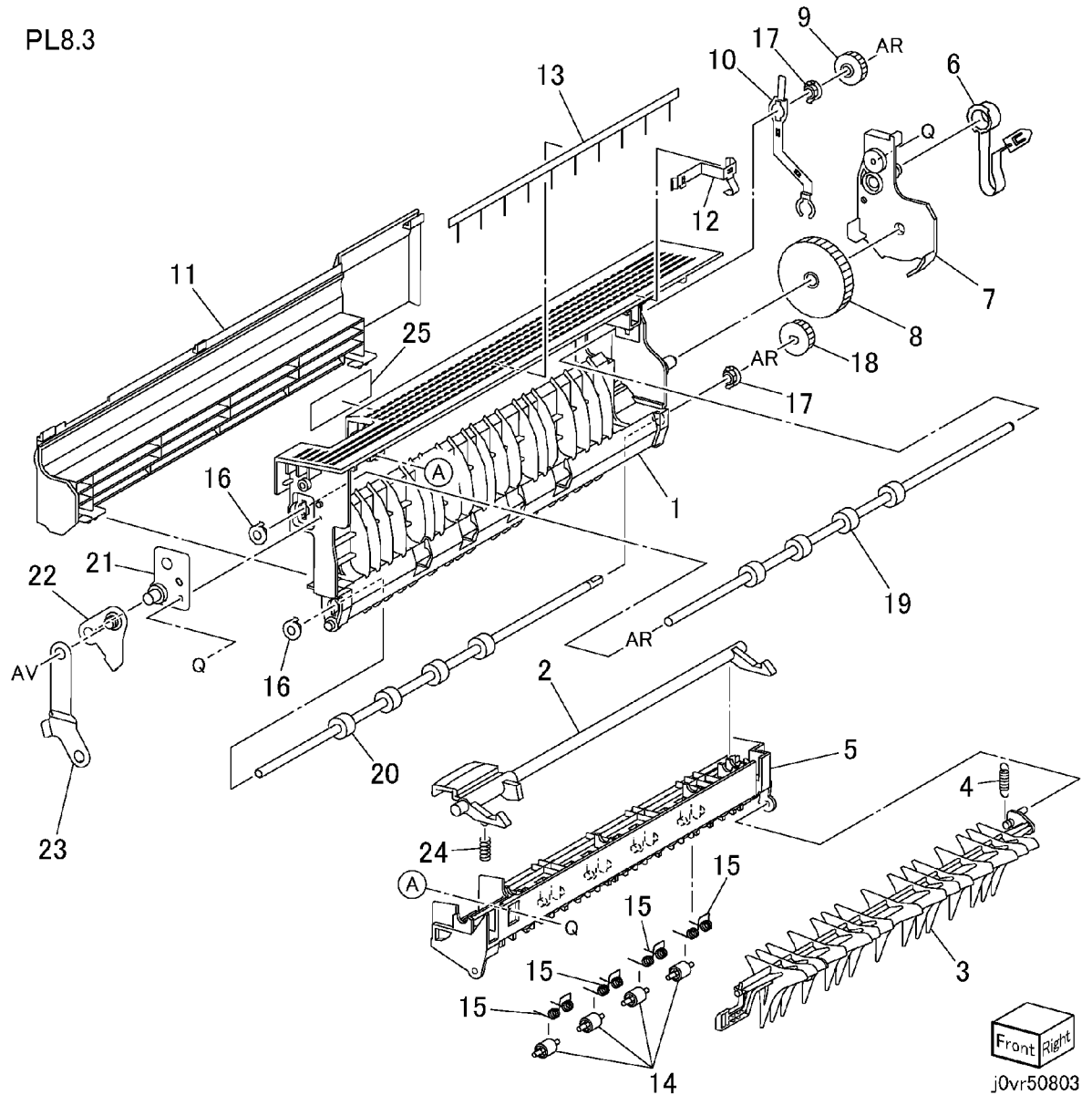
11 { 12-16



PL 8.3 L/H Upper Chute Assembly (Exit 2)

Item	Part	Description
1	-	L/H Upper Chute (P/O PL 8.1 Item 2)
2	003E60160	Latch
3	050E20010	Exit 2 Gate
4	-	Gate 2 Spring (P/O PL 8.1 Item 2)
5	-	Upper Chute (P/O PL 8.1 Item 2)
6	-	Exit 2 Stopper (P/O PL 8.1 Item 2)
7	-	Gear Cover (P/O PL 8.1 Item 2)
8	-	Gear (49Z) (P/O PL 8.1 Item 2)
9	-	Gear (22Z) (P/O PL 8.1 Item 2)
10	-	Earth Plate (P/O PL 8.1 Item 2)
11	-	Face Up Exit Cover (P/O PL 8.1 Item 2)
12	-	Earth Plate (P/O PL 8.1 Item 2)
13	-	Exit Eliminator (P/O PL 8.1 Item 2)
14	-	Pinch Roller (P/O PL 8.1 Item 2)
15	-	Pinch Spring (P/O PL 8.1 Item 2)
16	-	Bearing (P/O PL 8.1 Item 2)
17	013E25550	Roller Bearing
18	-	Gear (22Z) (P/O PL 8.1 Item 2)
19	059K43190	Roller
20	059K31010	Roller
21	-	Tray Bracket (P/O PL 8.1 Item 2)
22	-	Link Bracket (P/O PL 8.1 Item 2)
23	-	Link (P/O PL 8.1 Item 2)
24	-	Latch Spring (P/O PL 8.1 Item 2)
25	-	Label (Height) (P/O PL 8.1 Item 2)

PL8.3



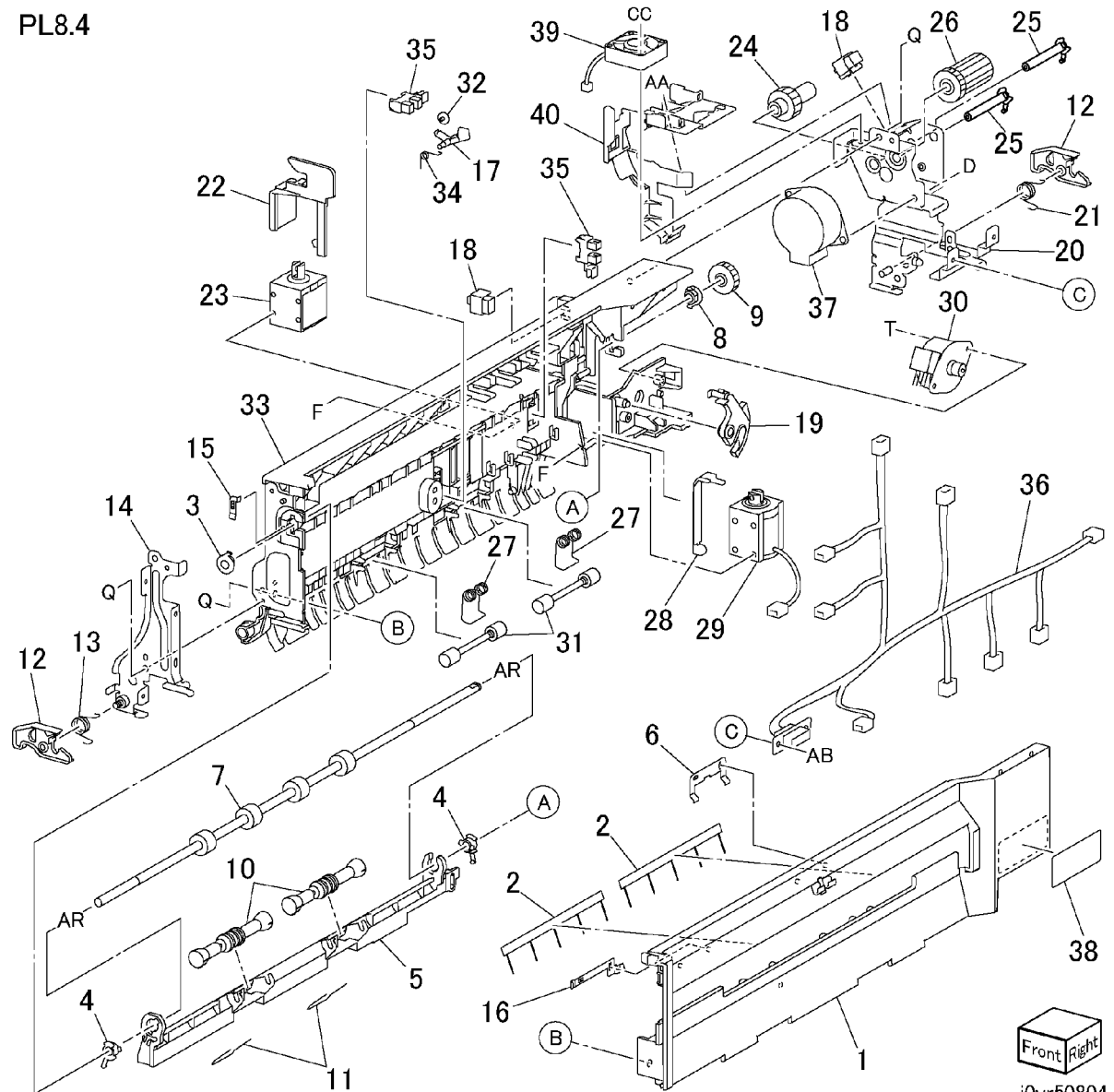
Front Right

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PL 8.4 Tray Guide Assembly (OCT 2)

Item	Part	Description
1	-	Tray 2 Guide (P/O PL 8.1 Item 2)
2	-	Exit 2 Eliminator (P/O PL 8.1 Item 2)
3	013E25550	Bearing
4	-	Bearing (P/O PL 8.1 Item 2)
5	-	OCT2 Chute (P/O PL 8.1 Item 2)
6	-	Earth Plate (P/O PL 8.1 Item 2)
7	059K26760	Exit 2 Roll
8	-	Bearing Roll (P/O PL 8.1 Item 2)
9	-	Gear (22Z) (P/O PL 8.1 Item 2)
10	-	Exit Pinch Roll (P/O PL 8.1 Item 2)
11	-	Exit Pinch Spring (P/O PL 8.1 Item 2)
12	003E60171	Latch
13	809E50210	Front Latch Spring
14	-	Front Plate (P/O PL 8.1 Item 2)
15	-	Earth 2 Plate (P/O PL 8.1 Item 2)
16	-	Earth 3 Plate (P/O PL 8.1 Item 2)
17	120E22451	Exit Actuator
18	110E11580	Exit 2 Interlock Switch
19	-	Offset 2 Gear (P/O PL 8.1 Item 2)
20	-	Rear Plate (P/O PL 8.1 Item 2)
21	809E52100	Rear Latch Spring
22	-	Link (P/O PL 8.1 Item 2)
23	121K32370	Face Up Gate Solenoid
24	-	Gear (33Z) (P/O PL 8.1 Item 2)
25	-	Gear Shaft (P/O PL 8.1 Item 2)
26	-	Gear (16/47Z) (P/O PL 8.1 Item 2)
27	-	Pinch In Spring (P/O PL 8.1 Item 2)
28	-	Exit Gate Link (P/O PL 8.1 Item 2)
29	121K37100	Solenoid
30	127K37951	Offset Motor
31	-	Pinch Roll (P/O PL 8.1 Item 2)
32	-	Actuator Roller (P/O PL 8.1 Item 2)
33	-	Lower Chute (P/O PL 8.1 Item 2)
34	809E37332	Actuator Spring
35	930W00113	Photo Sensor
36	-	Wire Harness (P/O PL 8.1 Item 2)
37	127K48890	Exit 2 Motor
38	-	Label (P/O PL 8.1 Item 2)
39	127K39420	CCD Fan
40	-	Inner Cover (P/O PL 8.1 Item 2)

PL8.4



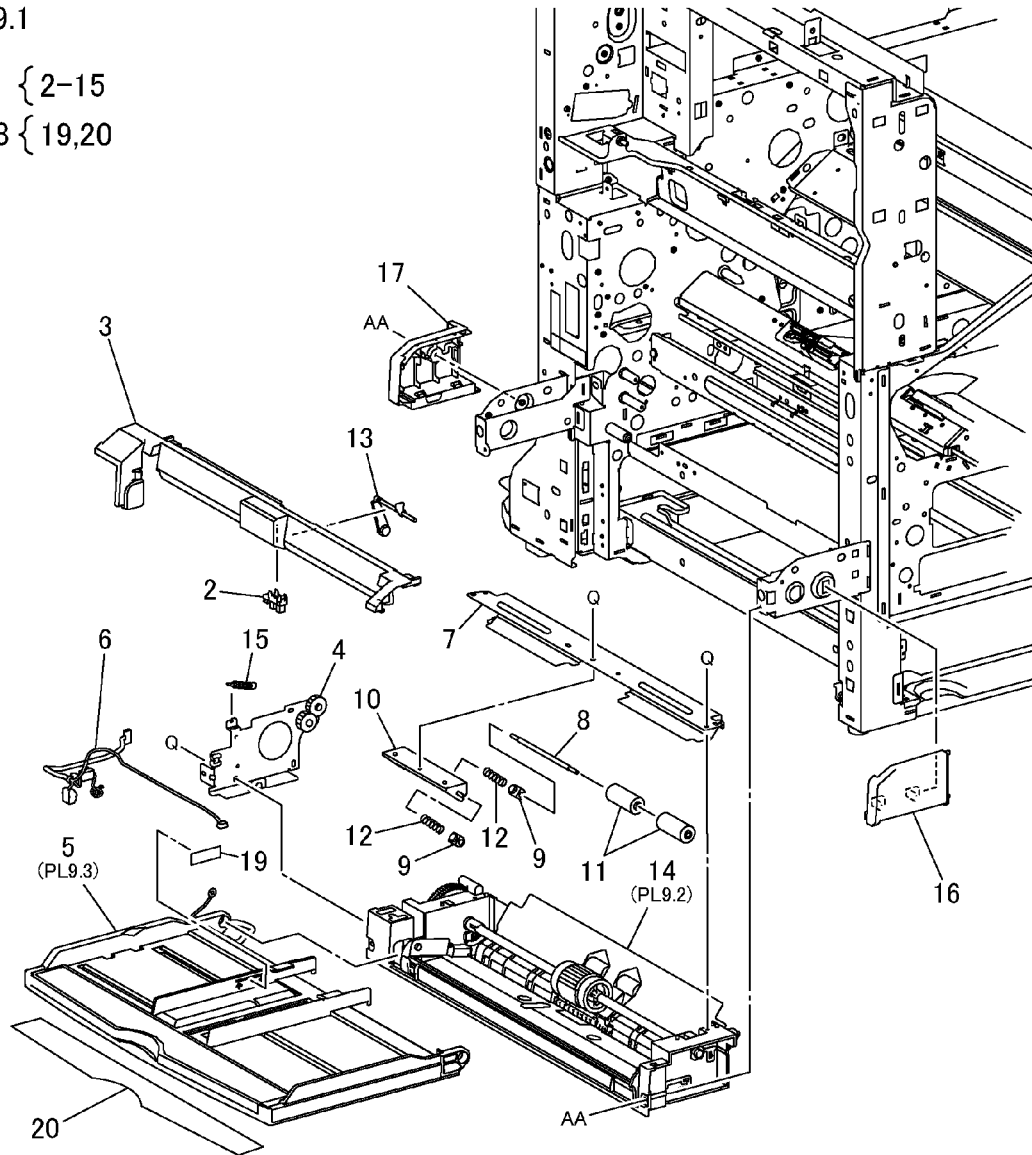
Front Right
j0vr50804

PL 9.1 MSI Assembly

Item	Part	Description
1	-	MSI Feeder Assembly (Not Spared) (REP 7.1.1)
2	930W00113	MSI Paper Detact Sensor
3	-	Upper Frame (P/O PL 9.1 Item 1)
4	-	Gear Bracket (P/O PL 9.1 Item 1)
5	050K56600	MSI Tray Assembly
6	962K13120	MSI Harness
7	-	Pinch Chute (P/O PL 9.1 Item 1)
8	-	Pinch Shaft (P/O PL 9.1 Item 1)
9	-	Spring Spacer (P/O PL 9.1 Item 1)
10	-	pinch Guide (P/O PL 9.1 Item 1)
11	604K20410	Kit 2 Roller 2
12	-	Pinch Spring (P/O PL 9.1 Item 1)
13	120E22231	Actuator
14	801K22671	Lower Frame Assembly
15	-	MSI Spring (P/O PL 9.1 Item 1)
16	-	MSI Front Cover (Not Spared)
17	-	MSI Rear Cover (Not Spared)
18	604K20520	MSI Label Kit
19	-	Label (P/O PL 9.1 Item 18)
20	-	Label (Max) (P/O PL 9.1 Item 18)

PL 9.1

1 { 2-15
18 { 19,20



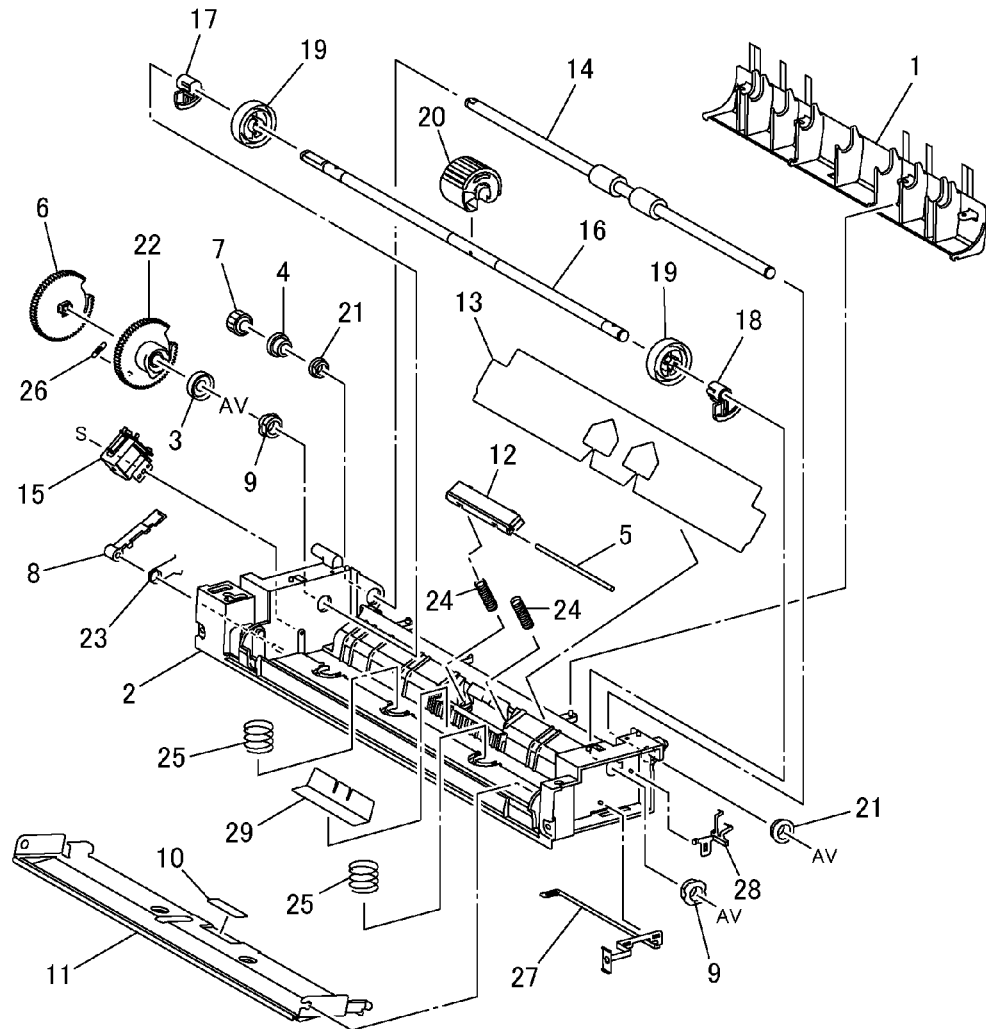
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PL 9.2 Lower Frame Assembly

Item	Part	Description
1	-	Low Chute (P/O PL 9.1 Item 14)
2	-	MSI Lower Frame (P/O PL 9.1 Item 14)
3	-	Stopper Lever (P/O PL 9.1 Item 14)
4	-	Collar (P/O PL 9.1 Item 14)
5	-	Retard Shaft (P/O PL 9.1 Item 14)
6	-	Pick Up Gear (P/O PL 9.1 Item 14)
7	-	Gear (18T) (P/O PL 9.1 Item 14)
8	-	Gear Lever
9	-	Bearing (8) (P/O PL 9.1 Item 14)
10	019E56551	Pad Bottom
11	-	Bottom Plate (P/O PL 9.1 Item 14)
12	019K07086	Retard Pad
13	032E21061	Paper Guide
14	059K27141	Drive Roll
15	121E92780	MSI Feed Solenoid
16	-	Shaft (P/O PL 9.2 Item 30)
17	-	Pick Up Cam (Rear) (P/O PL 9.2 Item 30)
18	-	Pick Up Cam (Front) (P/O PL 9.2 Item 30)
19	-	Core Roll (P/O PL 9.2 Item 30)
20	059K40654	Feed Roller
21	-	Bearing (P/O PL 9.2 Item 30)
22	-	Cam Gear (P/O PL 9.2 Item 30)
23	-	Lever Gear Spring (P/O PL 9.2 Item 30)
24	-	Spring Pad (P/O PL 9.2 Item 30)
25	-	Spring (P/O PL 9.2 Item 30)
26	-	Gear Cam Spring (P/O PL 9.2 Item 30)
27	-	Earth Plate (P/O PL 9.2 Item 30)
28	-	Earth Plate (P/O PL 9.2 Item 30)
29	-	MSI Paper Guide (P/O PL 9.2 Item 30)
30	059K31390	Feed Roll Assembly (REP 7.2.1)

PL 9.2

30 { 16-21

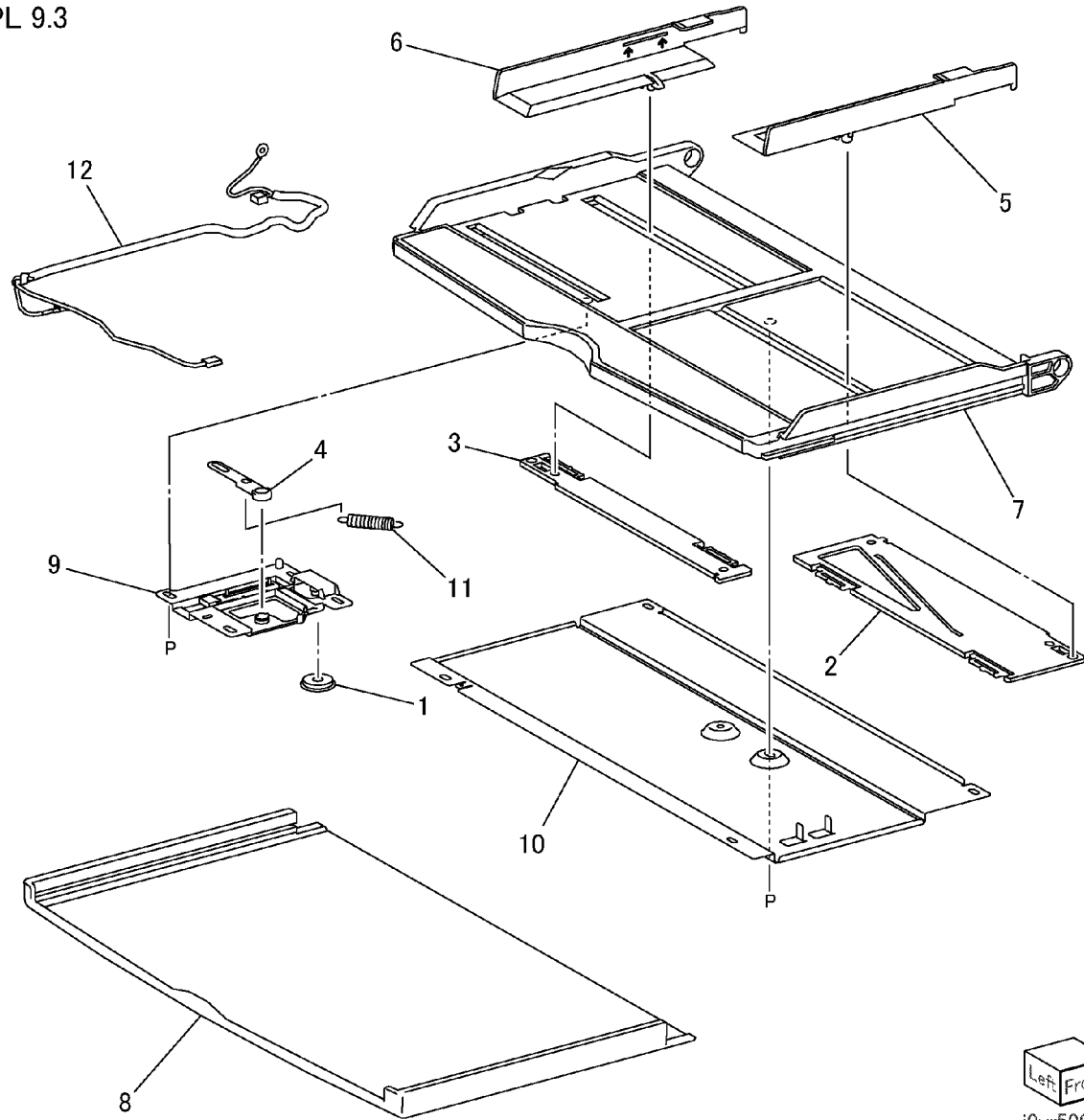


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PL 9.3 MSI Tray Assembly

Item	Part	Description
1	-	Pinion Gear (P/O PL 9.1 Item 5)
2	-	Front Rack (P/O PL 9.1 Item 5)
3	-	Rear Rack (P/O PL 9.1 Item 5)
4	-	Link (P/O PL 9.1 Item 5)
5	-	Front Side Guide (P/O PL 9.1 Item 5)
6	-	Rear Side Guide (P/O PL 9.1 Item 5)
7	-	Tray MSI (P/O PL 9.1 Item 5)
8	-	Exit Tray (P/O PL 9.1 Item 5)
9	-	MSI Sensor (P/O PL 9.1 Item 5)
10	-	Tray Cover (P/O PL 9.1 Item 5)
11	-	Sensor Spring (P/O PL 9.1 Item 5)
12	962K13120	MSI Harness

PL 9.3



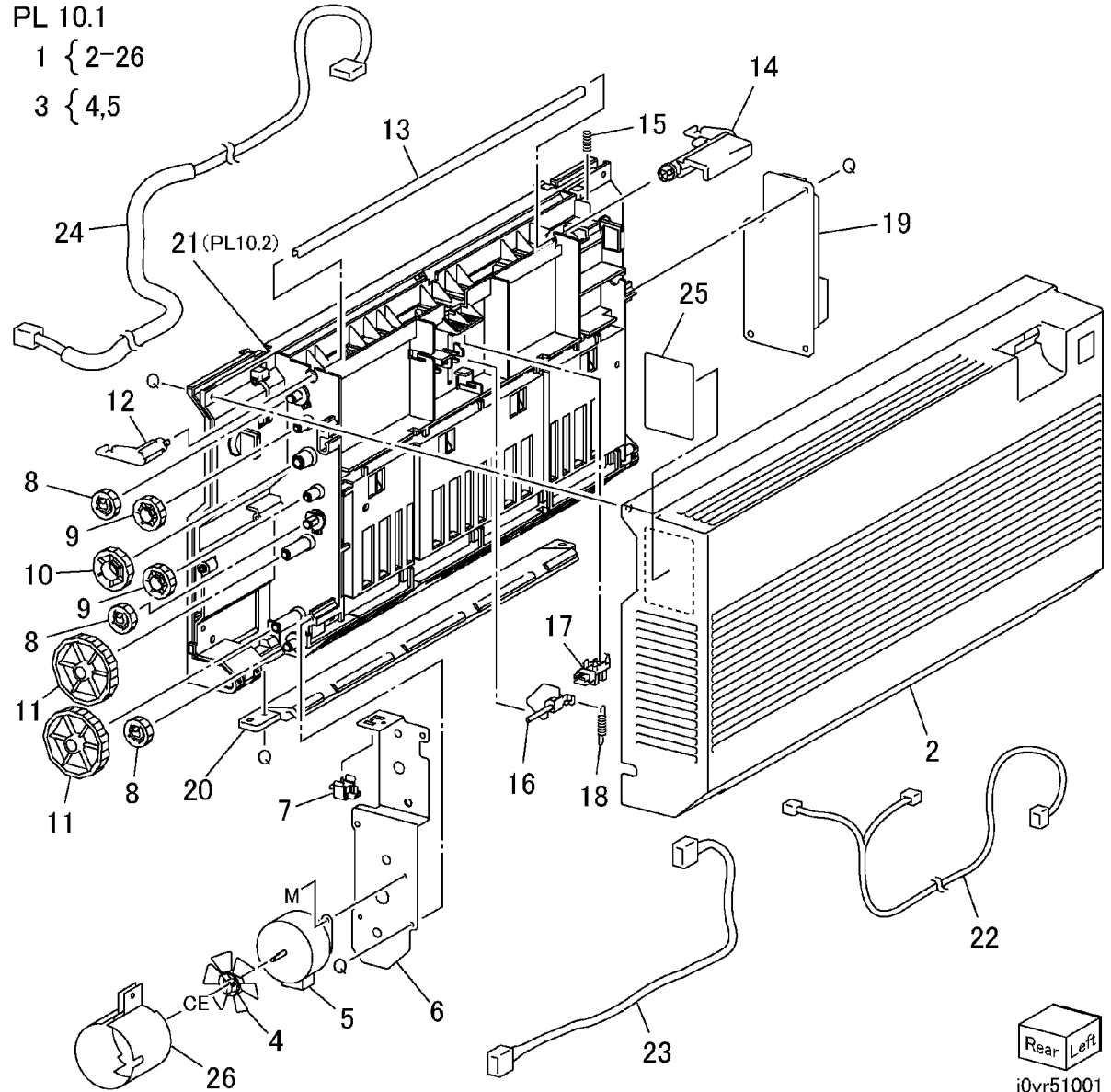
PL 10.1 Duplex

Item	Part	Description
1	059K44291	Duplex Transport Assembly
2	-	Duplex Cover (P/O PL 10.1 Item 1)
3	127K48381	Duplex Motor Assembly
4	-	Duplex Fan (P/O PL 10.1 Item 3)
5	-	Duplex Motor (P/O PL 10.1 Item 3)
6	849E13740	Motor Bracket
7	110E11580	Switch
8	-	Gear (28) (P/O PL 10.1 Item 1)
9	-	Gear (33) (P/O PL 10.1 Item 1)
10	-	Gear (42T) (P/O PL 10.1 Item 1)
11	-	Gear (33/74) (P/O PL 10.1 Item 1)
12	011E14582	Latch Lever (Rear)
13	-	Latch Plate (P/O PL 10.1 Item 1)
14	011E14590	Front Latch Lever
15	-	Spring (P/O PL 10.1 Item 1)
16	120E21261	Actuator
17	930W00113	Paper Detect Sensor
18	809E37280	Actuator Spring
19	960K16431	Duplex PWB
20	-	Lower Chute (P/O PL 10.1 Item 1)
21	-	Inner Chute Assembly (P/O PL 10.1 Item 1)
22	-	Duplex SNR Harness (P/O PL 10.1 Item 1)
23	-	Duplex Motor Harness (P/O PL 10.1 Item 1)
24	962K19011	Duplex Harness
25	-	Duplex UI Label (P/O PL 10.1 Item 1)
26	-	Duplex Duct (P/O PL 10.1 Item 1)

PL 10.1

1 { 2-26

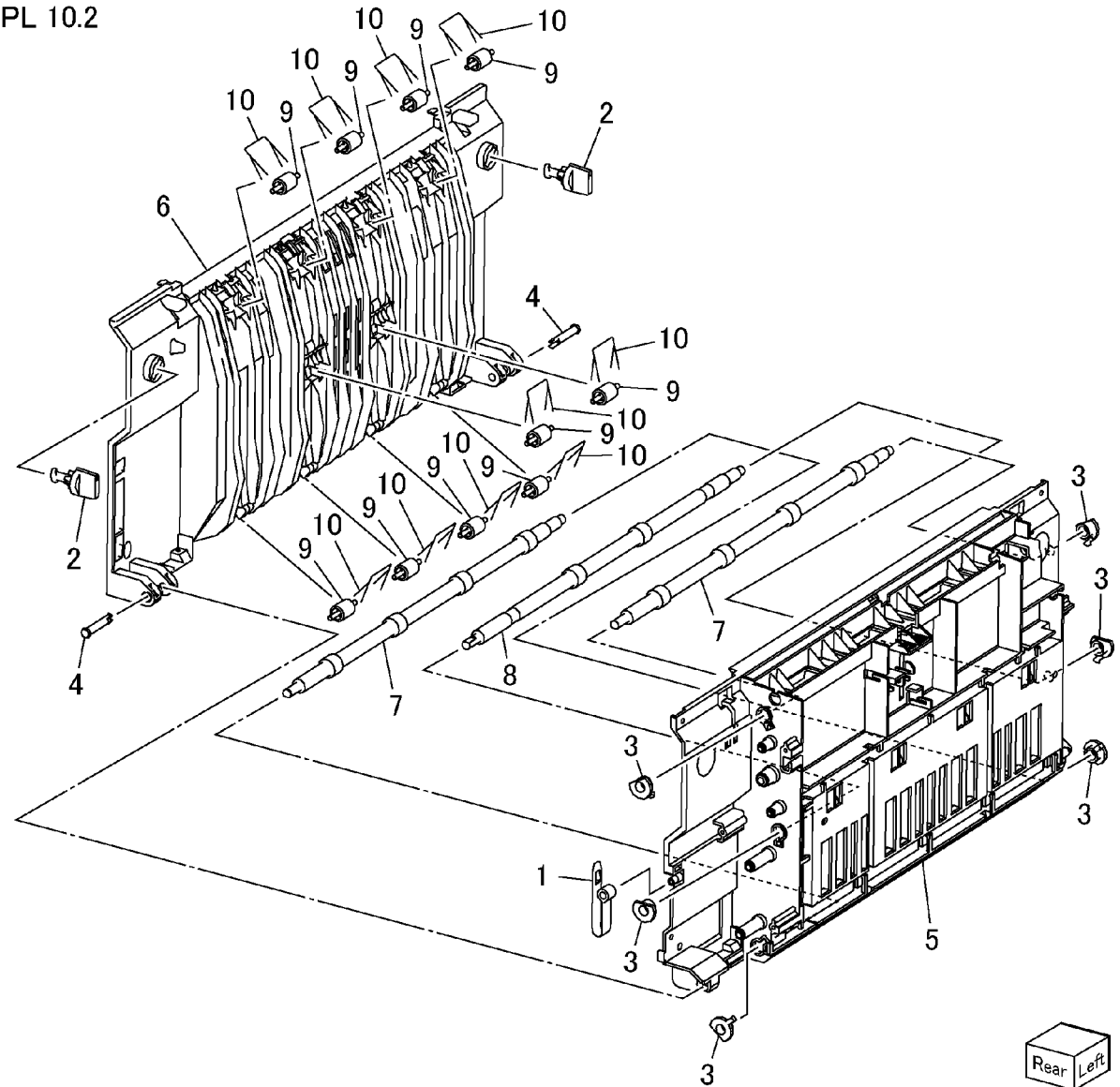
3 { 4,5



PL 10.2 Inner Chute Assembly

Item	Part	Description
1	003E59810	Stopper
2	003E59821	Lock
3	013E22671	Bearing
4	029E32580	Pin
5	054E23872	Outer Chute
6	-	Inner Chute (P/O PL 10.1 Item 21)
7	059K36880	Duplex Roller
8	059K36890	Duplex Roller
9	604K20460	4 Roller 1 Kit
10	-	Duplex Pinch Spring (P/O PL 10.1 Item 21)

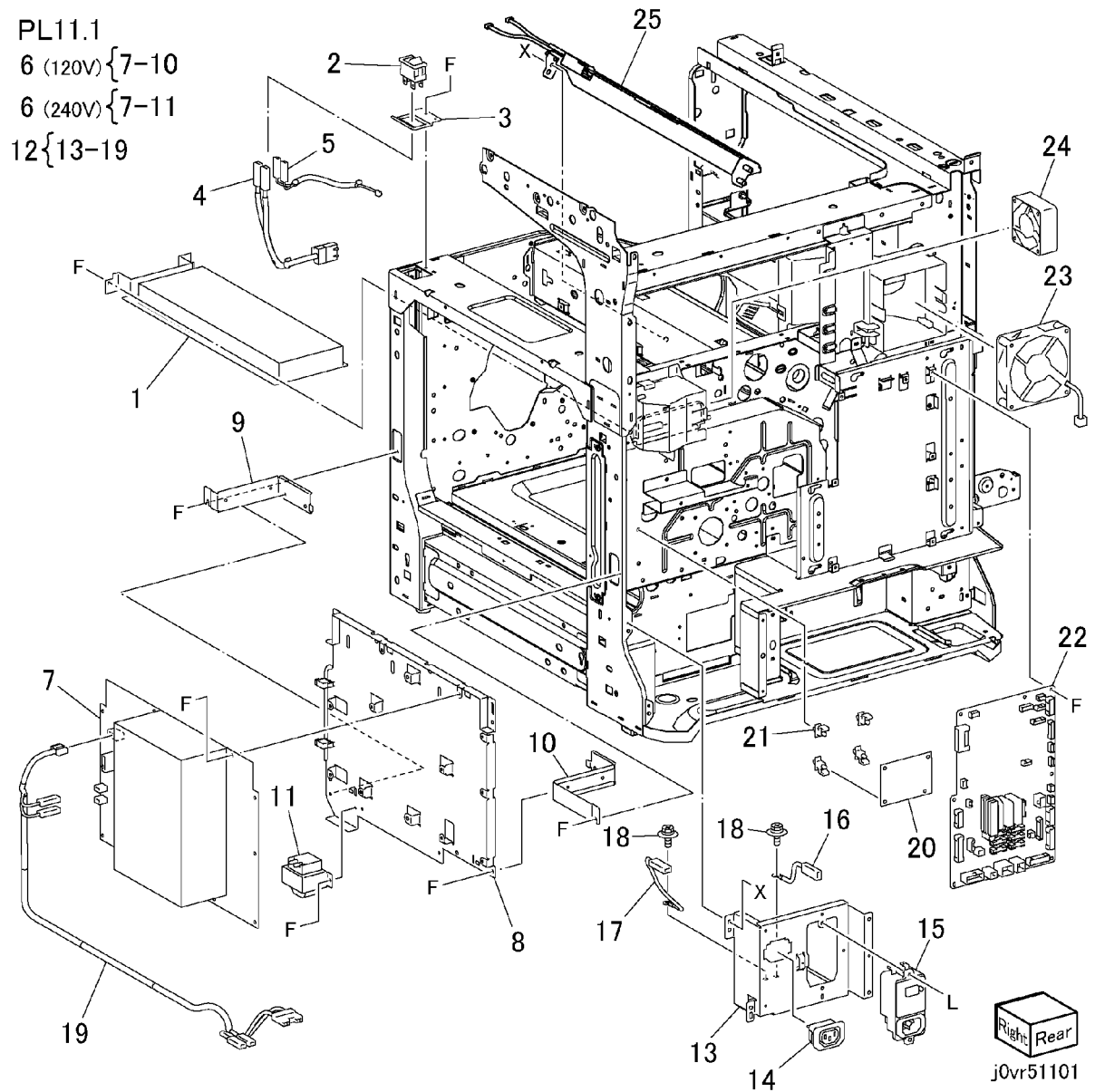
PL 10.2



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PL 11.1 Electrical

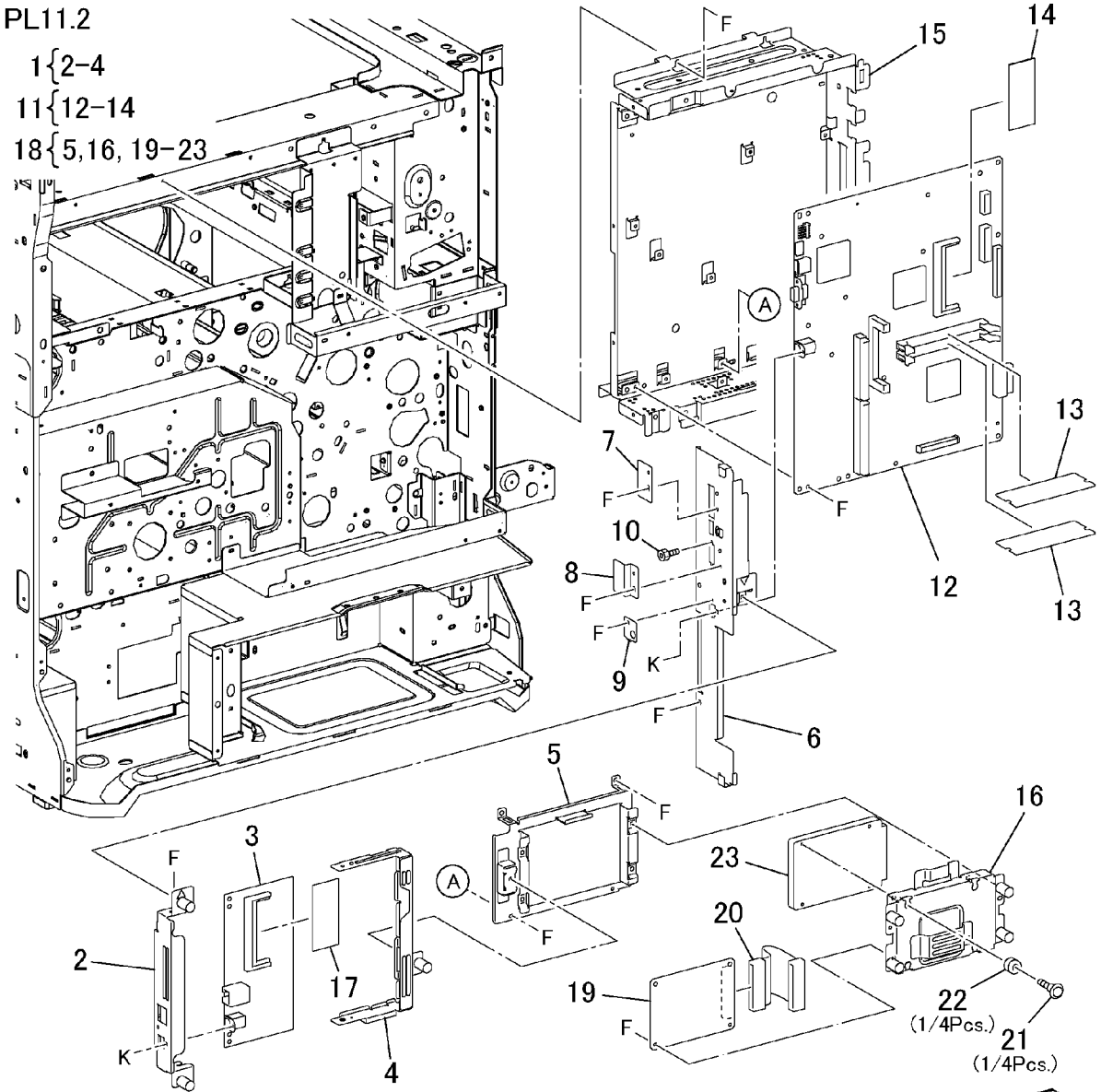
Item	Part	Description
1	105E16410	PSHV-04A1
2	110E11230	Main Power Switch
3	-	Bracket (Not Spared)
4	-	Main Switch AC Harness (Not Spared)
5	-	Main Switch DC Harness (Not Spared)
6	-	Power (120v) Chassis Assembly, Unit (240v) Chassis Assembly (Not Spared) (REP 9.2.3)
7	105E16382	Power Unit (120v) (REP 9.2.3)
8	105E16392	Power Unit (240v) (23/28CPM)
9	-	Chassis (P/O PL 11.1 Item 6)
10	-	LVPS Front Bracket (P/O PL 11.1 Item 6)
11	-	LVPS Rear Bracket (P/O PL 11.1 Item 6) (33CPM)
12	104E94890	Choke Coil (220 Only)
13	101K52640	AC Chassis Assembly
14	-	Outlet (P/O PL 11.1 Item 12)
15	908W01201	GFI
16	-	FG 1 VRN Harness (P/O PL 11.1 Item 12)
17	-	FG 2 VRN Harness (P/O PL 11.1 Item 12)
18	-	Screw (P/O PL 11.1 Item 12)
19	-	AC Power VRN Harness (P/O PL 11.1 Item 12)
20	960K09570	PWB Relay
21	-	PWB Support
22	960K09388	MCU PWB (REP 9.1.1)
23	927W00144	Fan-Fuser
24	927W00121	Fan-Rear (REP 10.3.1)
25	130K69060	Sensor Bar Assembly (REP 4.3.1)



PL 11.2 ESS

Item	Part	Description
1	101K52632	Printer Chassis Assembly
2	-	Printer Panel (P/O PL 11.2 Item 1)
3	-	Printer PWB (P/O PL 11.2 Item 1)
4	-	Rail Printer Bracket (P/O PL 11.2 Item 1)
5	-	Base Chassis (Not Spared)
6	-	Panel (Not Spared)
7	-	Blind Chassis Bracket (Not Spared)
8	-	Blind Dsub Bracket
9	-	Blind PSW Bracket (Not Spared)
10	-	Lock Screw (Not Spared)
11	-	EVE Color PWB Assembly (Not Spared) (REP 9.2.1)
12	960K18345	ESS PWB
13	133K24720	DDR DIMM 256mb
14	133K24740	PC133 So-0DIMM (128MB)
15	-	ESS Chassis (Not Spared)
16	-	HDD Bracket (P/O PL 11.2 Item 18)
17	540K02665	PS DIMM (Option)
18	960K16132	HDD Chassis Assembly
19	-	Eden2 PWB (P/O PL 11.2 Item 18)
20	-	IDE Harness (P/O PL 11.2 Item 18)
21	-	Screw (P/O PL 11.2 Item 18)
22	-	Bumper (P/O PL 11.2 Item 18)
23	-	IDE HDD (40gb) (P/O PL 11.2 Item 18)

PL11.2



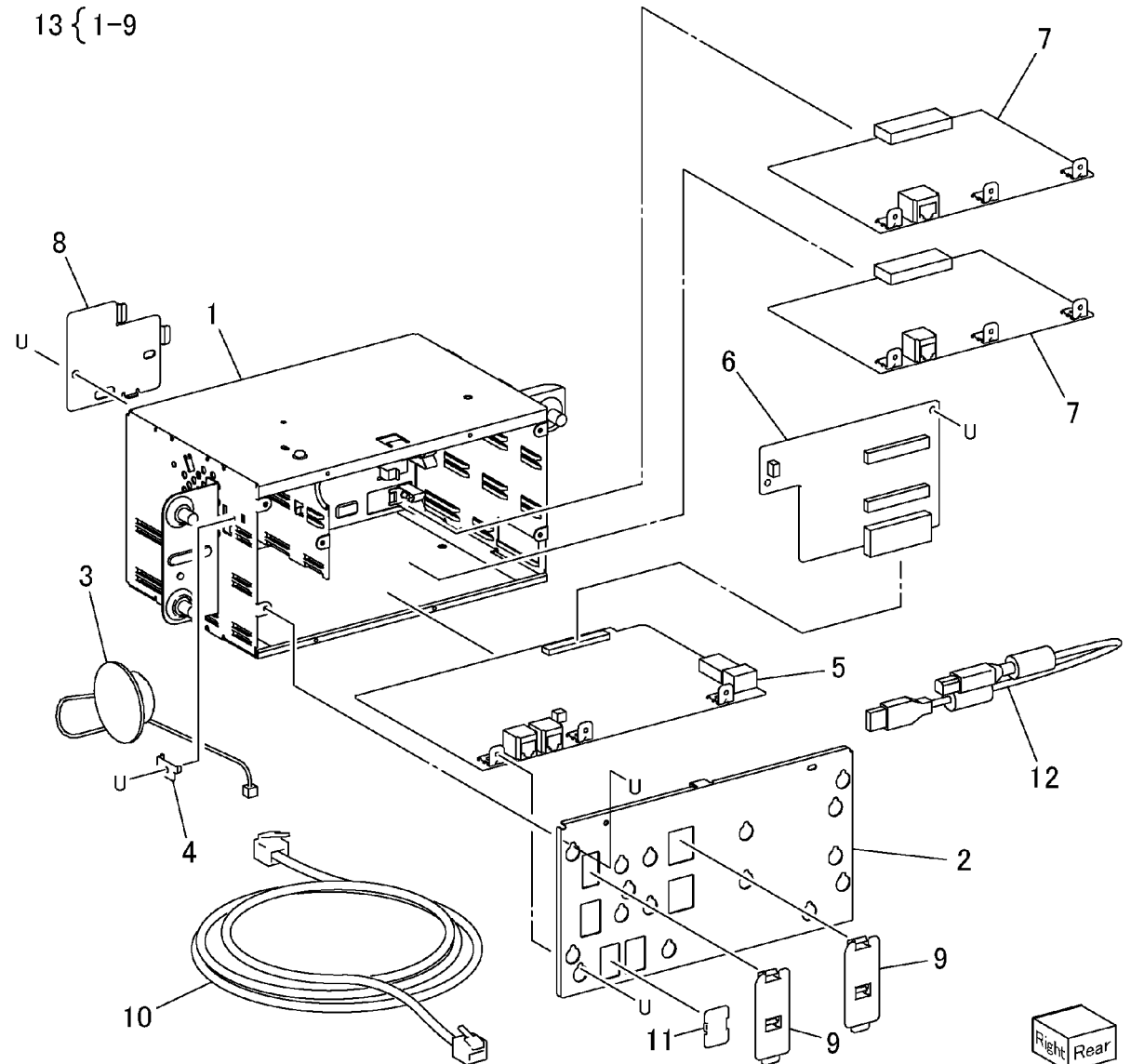
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PL 11.3 FAX Unit

Item	Part	Description
1	-	FAX Chassis Box (P/O PL 11.3 Item 13)
2	-	Panel (P/O PL 11.3 Item 13)
3	-	Speaker (P/O PL 11.3 Item 13)
4	-	speaker Bracket (P/O PL 11.3 Item 13)
5	960K24942	FCB PWB (XC)
-	960K24952	FCB PWB (XE)
-	960K24962	FCB PWB (ARZ)
6	960K28320	EMB PWB
7	960K15962	G3B PWB (XC)
-	960K18771	G3B PWB (XE)
8	-	Back Left Fax Cover (P/O PL 11.3 Item 13)
9	-	Snap Fax Cover (P/O PL 11.3 Item 13)
10	-	Tel Cable (Not Spared)
11	-	1CH Snap Fax Cover (Not Spared)
12	117K37370	USB Cable
13	-	Fax Box Unit (Not Spared)

PL 11.3

13 { 1-9

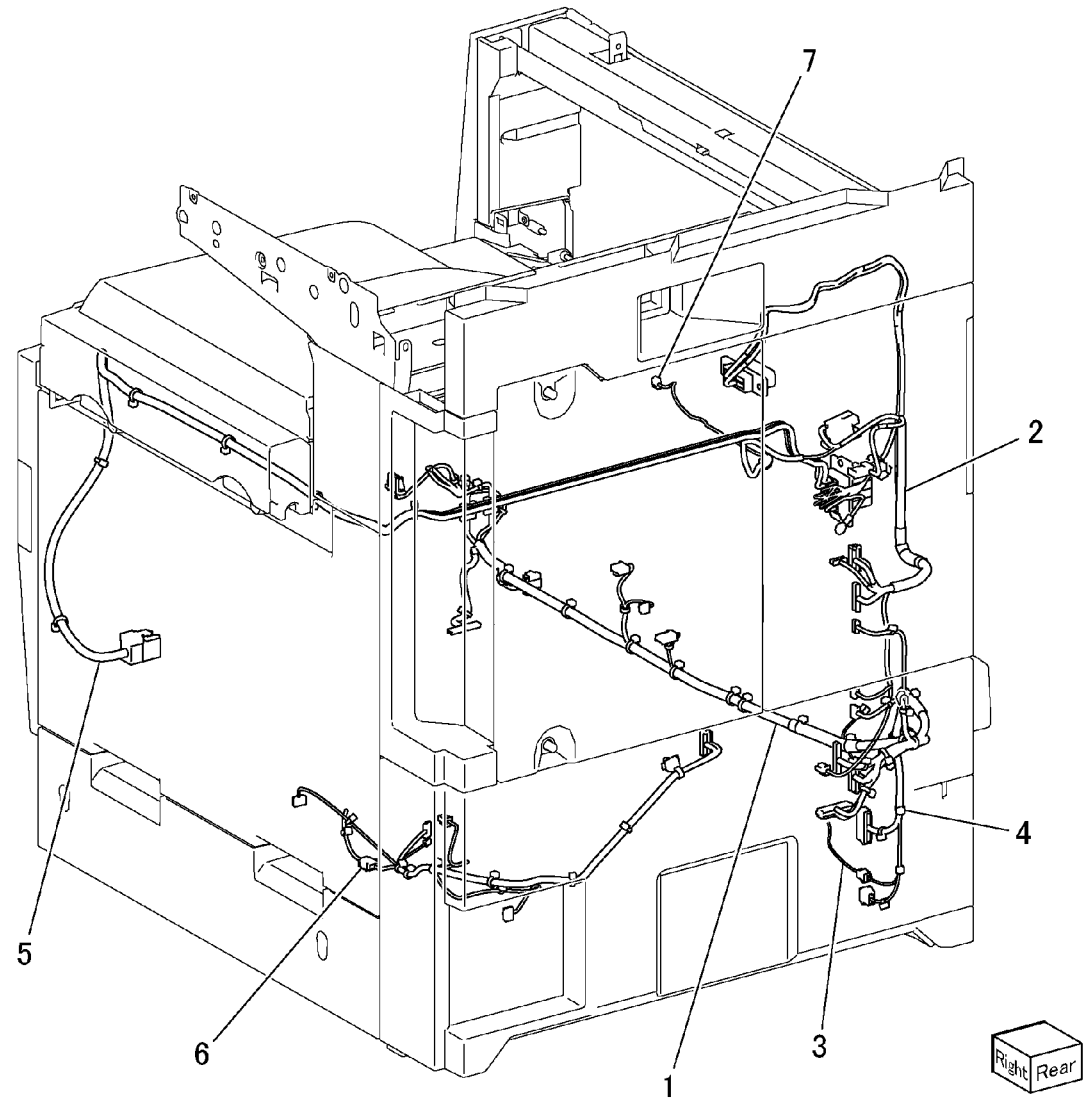


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PL 11.4 Wire Harnesses

Item	Part	Description
1	-	Front Harness (Not Spared)
2	-	Exit Harness (Not Spared)
3	-	Switch Harness (Not Spared)
4	-	P/H Harness (Not Spared)
5	-	Fuser AC Harness (Not Spared)
6	-	ROS Harness (Not Spared)
7	-	Exit Sensor Harness (Not Spared)

PL11.4

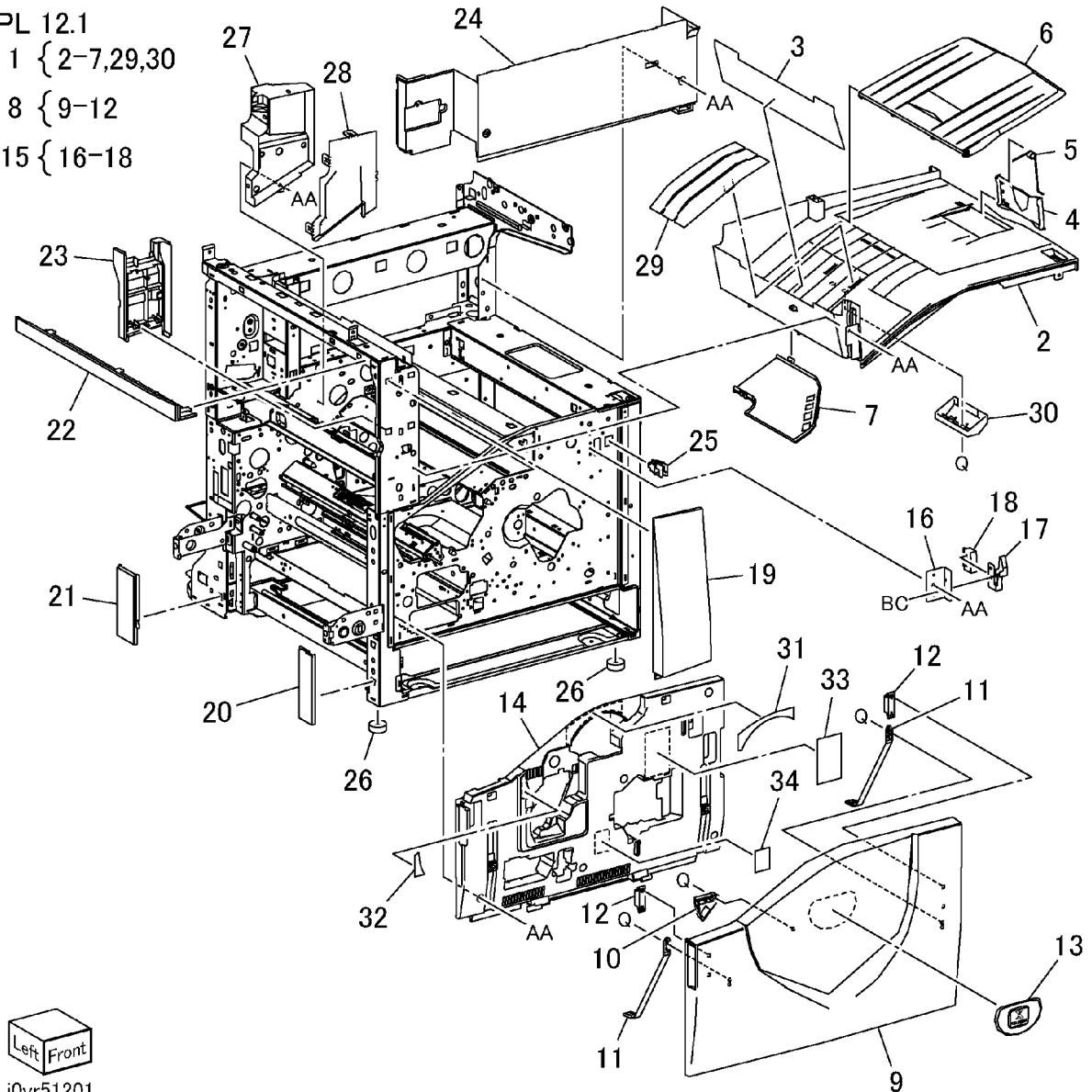


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PL 12.1 Cover-Front, Left

Item	Part	Description
1	-	Top Cover Assembly (Not Spared) (REP 10.1.1)
2	-	Top Cover (P/O PL 12.1 Item 1)
3	-	Tray Top Pad (P/O PL 12.1 Item 1)
4	-	Stopper (P/O PL 12.1 Item 1)
5	-	Torsion Spring (P/O PL 12.1 Item 1)
6	-	ADD Tray (P/O PL 12.1 Item 1)
7	-	Lower Duct (P/O PL 12.1 Item 1)
8	802K83660	Front Cover Assembly (REP 10.2.2)
9	-	Front Cover (P/O PL 12.1 Item 8)
10	-	Front Guide (P/O PL 12.1 Item 8)
11	802E88720	Strip
12	121E92870	Catch Magnet
13	848K06221	Logo Badge
14	-	Inner Front Cover (Not Spared) (REP 10.2.2)
15	-	Interlock Switch Assembly (Not Spared)
16	-	Interlock Switch Bracket (P/O PL 12.1 Item 15)
17	-	Interlock Switch Plate (P/O PL 12.1 Item 15)
18	-	Front Interlock Switch 2 (5vdc) (P/O PL 12.1 Item 15)
19	-	Fuser Front Cover (Not Spared) (REP 10.1.1)
20	-	Lefthand Front Cover (Not Spared)
21	-	Lefthand Rear Cover (Not Spared)
22	-	Lefthand IIT Cover (Not Spared)
23	-	Exit Front Cover (Not Spared)
24	-	Top Rear Cover (Not Spared)
25	110E97990	Front Interlock Switch 1 (24vdc)
26	-	IOT Foot (Not Spared)
27	-	Front Fuser Duct (Not Spared)
28	-	Duct Cover (Not Spared)
29	-	Add 2 Tray (P/O PL 12.1 Item 1)
30	-	Cover (P/O PL 12.1 Item 1)
31	-	IBT Cleaner Label (Not Spared)
32	-	IBT Label (Not Spared)
33	-	CRU Instruction Label (Not Spared)
34	-	Blind Inner Cover (Not Spared)

PL 12.1
1 { 2-7,29,30
8 { 9-12
15 { 16-18



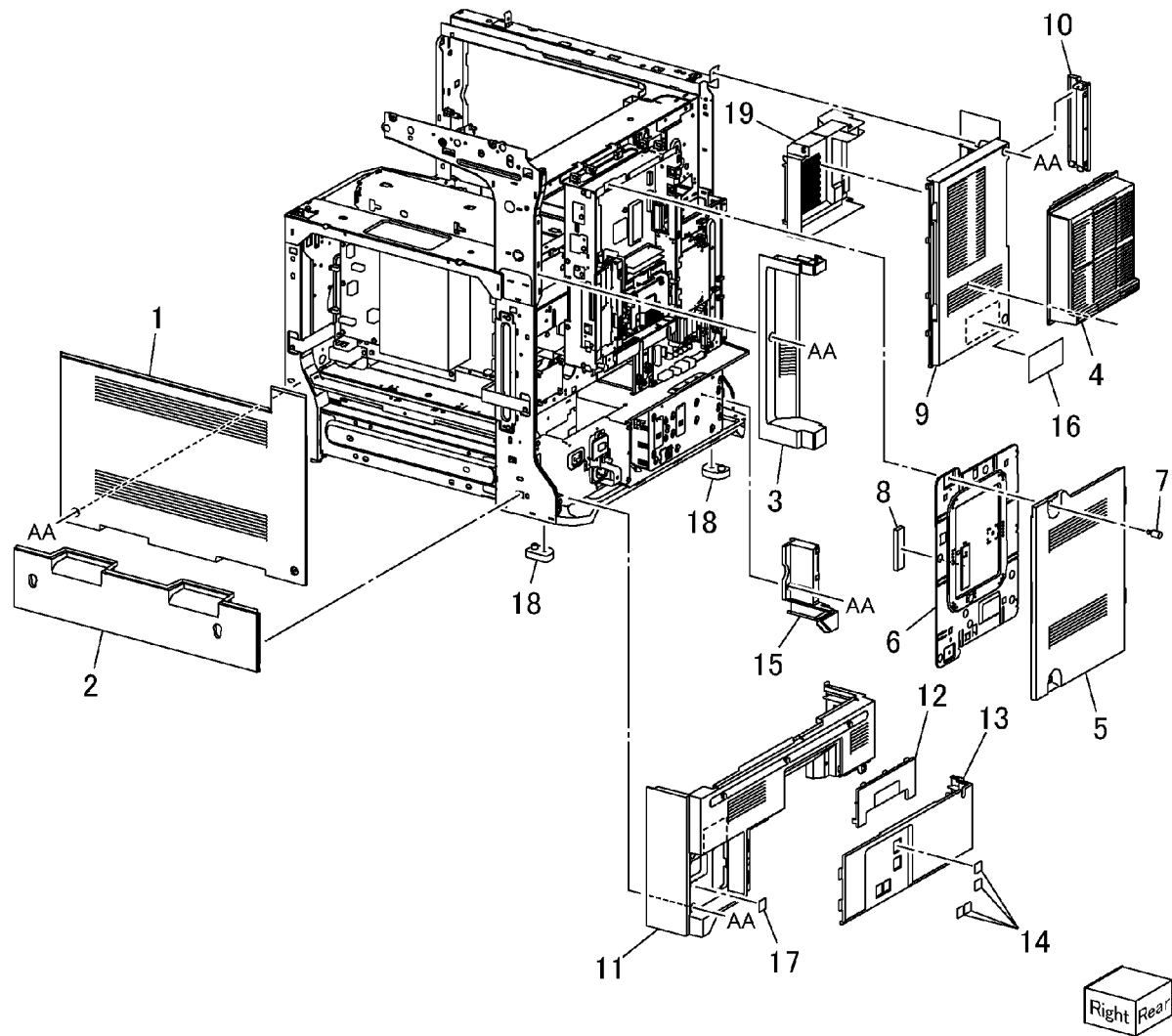
Left Front
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PL 12.2 Cover-Rear, Right

Item	Part	Description
1	-	Right Upper Cover (Not Spared) (REP 10.2.3)
2	-	Right Lower Cover (Not Spared)
3	-	ESS Right Cover (Not Spared)
4	008R13025	PR Filter
5	-	ESS Cover (P/O PL 12.2 Item 4) (REP 10.2.1)
6	-	ESS Cover (P/O PL 12.2 Item 4)
7	-	Screw (P/O PL 12.2 Item 4)
8	-	Cushion (P/O PL 12.2 Item 4)
9	-	Rear Lefthand Upper Cover (Not Spared) (REP 10.2.1)
10	802E88700	Filter Cover
11	-	Rear Lower Cover (Not Spared) (REP 10.2.1)
12	-	Cap MCU Cover (Not Spared) (REP 10.2.1)
13	-	Fax Cover (Not Spared) (REP 10.2.1)
14	-	Blind Fax Cover (Not Spared)
15	-	Rear Low Lefthand Cover (Not Spared)
16	-	Data Plate (MN 120/220) (Not Spared)
17	-	Outlet Label (120/220) (Not Spared)
18	-	Rear Foot (Not Spared)
19	-	Filter Duct (Not Spared)
20	-	Fan Motor (Not Shown)
21	604K33510	Ozone Filter Kit (120V)

PL 12.2

21 { 4, 20

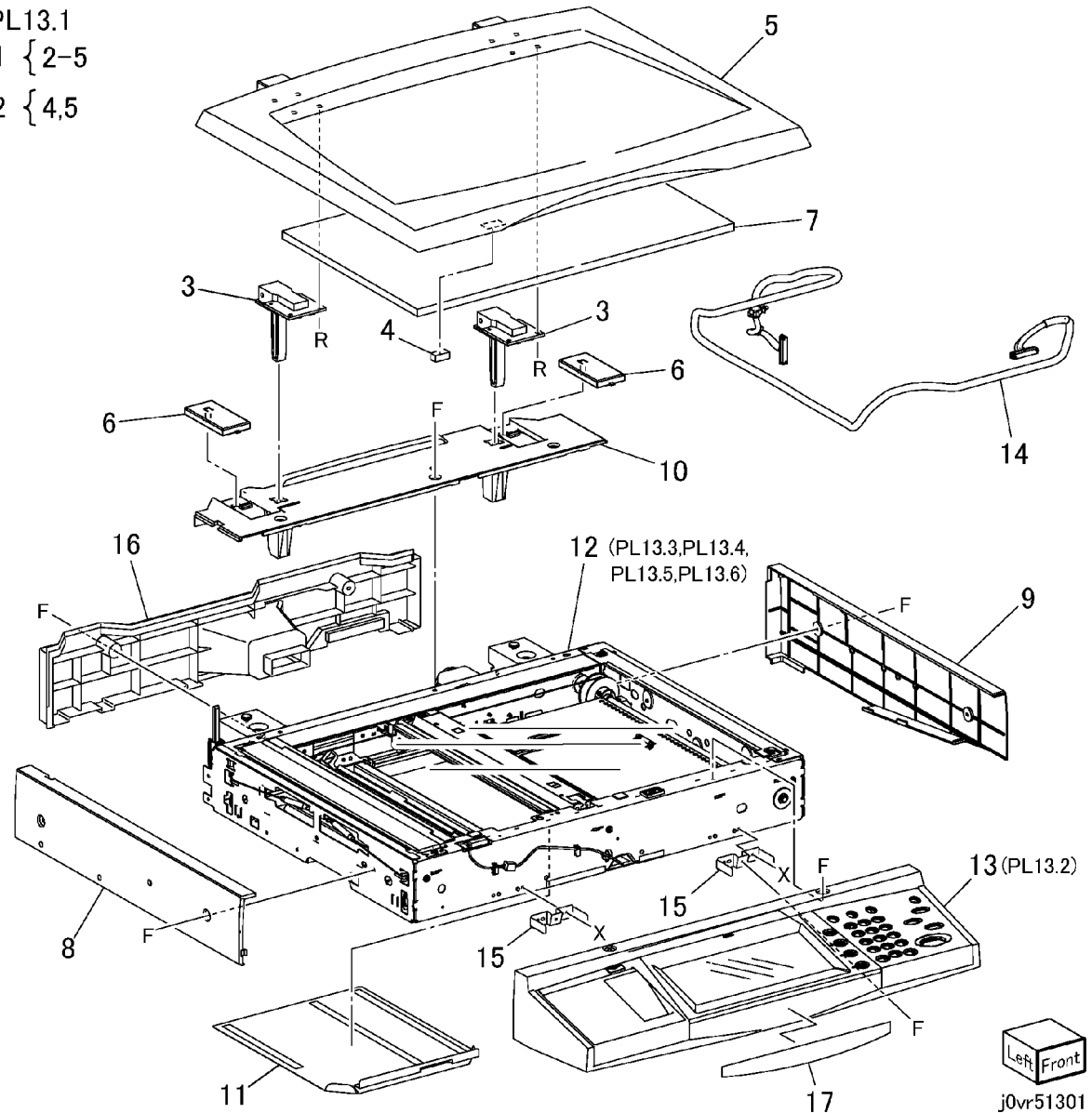


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PL 13.1 Platen Cover/IIT Assembly

Item	Part	Description
1	802K55690	AF Platen Cover Assembly
2	802K59201	A Platen Cover
3	-	Counter Balance (P/O PL 13.1 Item 1)
4	-	Interlock Magnet (P/O PL 13.1 Item 1)
5	-	Platen A Cover (P/O PL 13.1 Item 1)
6	-	Hinge Cover (Not Spared)
7	004E13450	Platen Cushion (REP 11.1.1)
8	-	IIT Left Cover (Not Spared)
9	-	IIT Right Cover (Not Spared)
10	-	Top Rear Cover (Not Spared)
11	-	Exit Guide (Not Spared)
12	062K16326	Main IIT Assembly
13	802K84040	Console Assembly (REP 11.1.2)
14	-	HB Cable (Not Spared)
15	-	UI Bracket (Not Spared)
16	-	IIT Rear Cover (Not Spared)
17	-	Name Label (Not Spared)

PL13.1
 1 { 2-5
 2 { 4,5



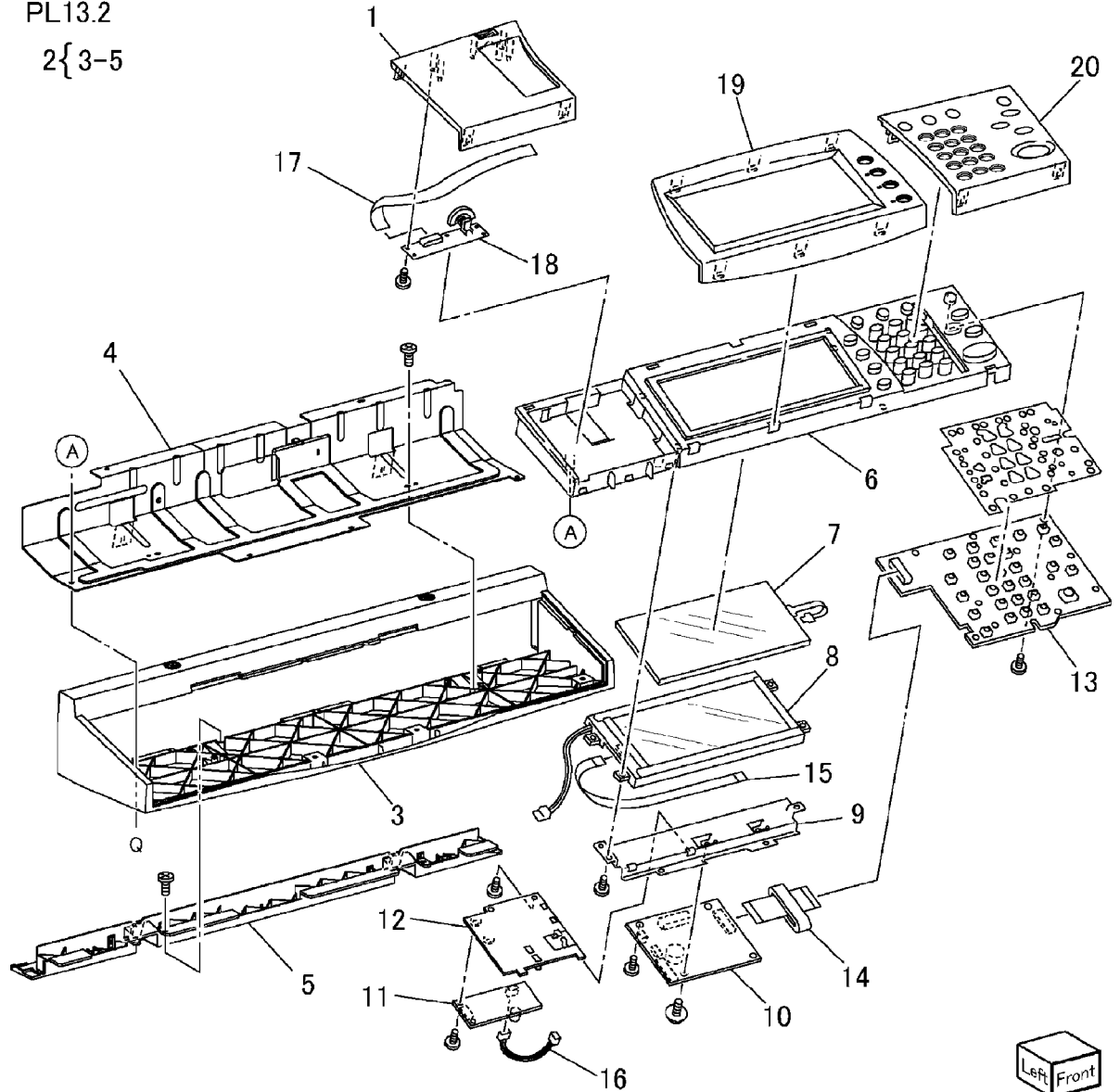
Left Front

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PL 13.2 Control Panel

Item	Part	Description
1	802K60062	Panel (Left)
2	-	Case 560 Panel Assembly (P/O PL 13.1 Item 13)
3	-	Case 560 Panel (P/O PL 13.2 Item 2)
4	-	UI560 Plate (P/O PL 13.2 Item 2)
5	-	Base Case Panel (P/O PL 13.2 Item 2)
6	-	Base Case Panel (P/O PL 13.1 Item 13)
7	110K11610	Touch Panel
8	123K94951	Display
9	-	PWB Support Bracket (P/O PL 13.1 Item 13)
10	160K91631	Inverter PWB
11	960K02444	IF PWB
12	-	Support (P/O PL 13.1 Item 13)
13	-	Control Panel PWB (P/O PL 13.1 Item 13)
14	-	Wire Harness (P/O PL 13.1 Item 13)
15	-	Wire Harness (P/O PL 13.1 Item 13)
16	-	Wire Harness (P/O PL 13.1 Item 13)
17	-	Wire Harness (P/O PL 13.1 Item 13)
18	-	Contrast PWB (P/O PL 13.1 Item 13)
19	802E91581	Panel (Center)
20	802E55532	Panel (Right)

PL13.2
2 { 3-5

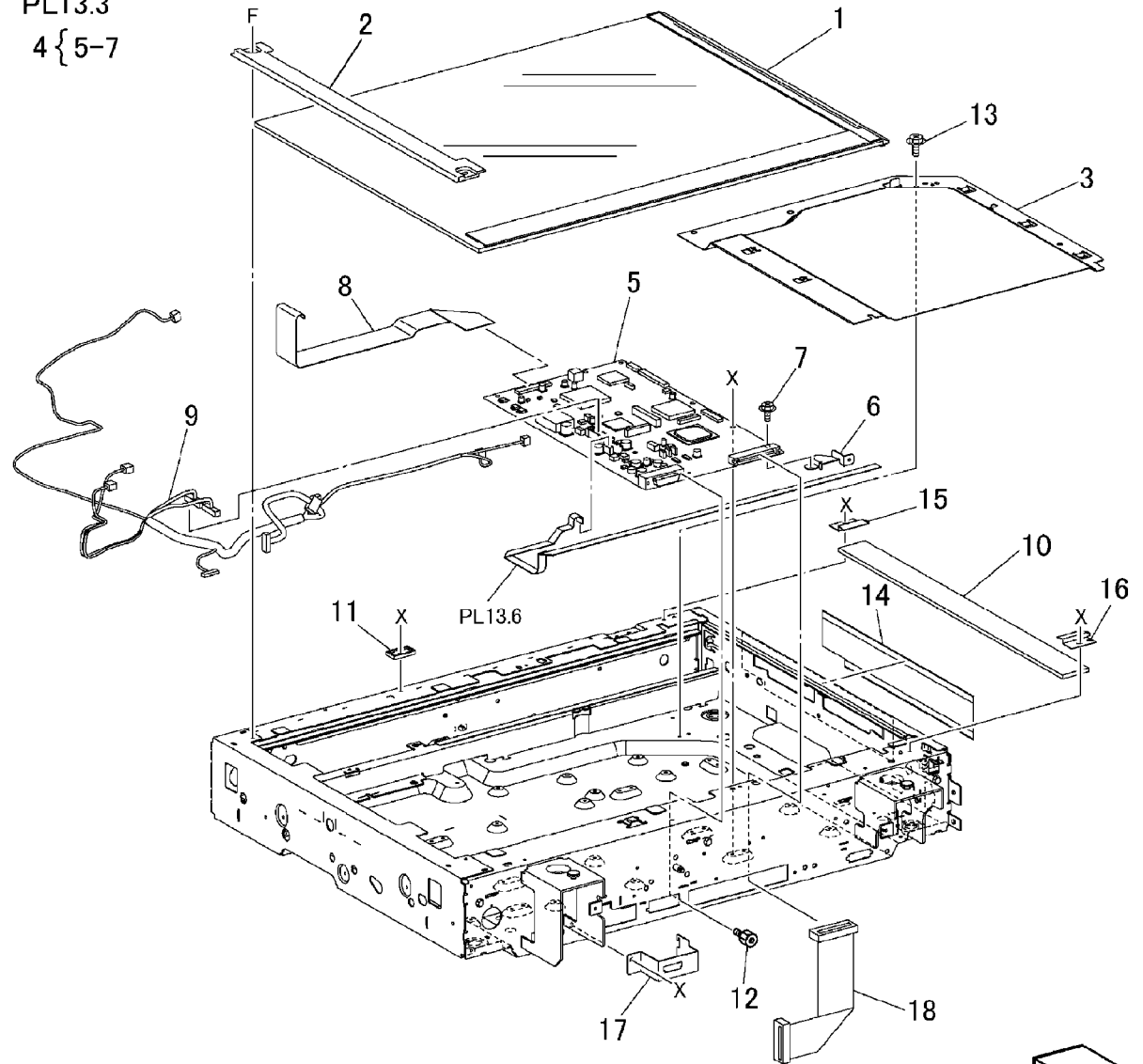


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PL 13.3 Platen Glass

Item	Part	Description
1	090K02332	Platen Glass (REP 11.3.1)
2	-	Right Side Plate (P/O PL 13.1 Item 12)
3	-	IPS Cover (P/O PL 13.1 Item 12)
4	960K16486	IIT/IPS PWB (REP 11.3.2)
5	-	IIT/IPS PWB (P/O PL 13.3 Item 4)
6	-	IIT/IPS Bracket (P/O PL 13.3 Item 4)
7	-	Screw (P/O PL 13.3 Item 4)
8	117E26161	FFC CCD
9	-	IIT Harness (P/O PL 13.1 Item 12)
10	090K93011	Platen Cover
11	-	Support Glass (P/O PL 13.1 Item 12)
12	-	Lock Screw (P/O PL 13.1 Item 12)
13	-	Screw (P/O PL 13.1 Item 12)
14	-	Filter
15	-	Front Support Bracket (P/O PL 13.1 Item 12)
16	-	Rear Support Bracket (P/O PL 13.1 Item 12)
17	-	Bracket (P/O PL 13.1 Item 12)
18	117K37241	ESS Cable

PL13.3
4 { 5-7



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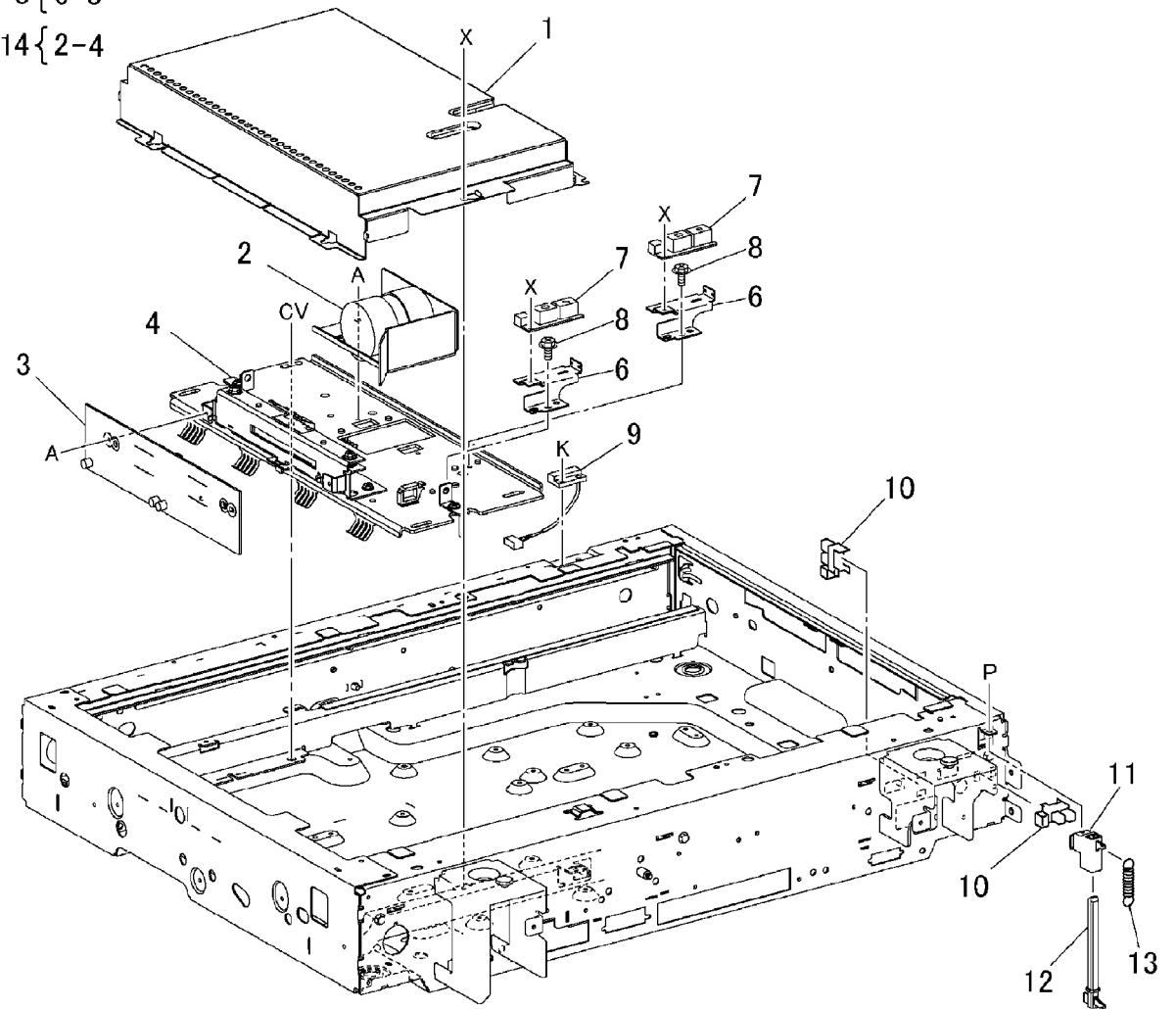
PL 13.4 CCD PWB, Sensor

Item	Part	Description
1	-	Lens Cover (P/O PL 13.1 Item 12)
2	-	Lens (P/O PL 13.4 Item 14)
3	-	CCD PWB (P/O PL 13.4 Item 14)
4	-	Lens Plate Base (P/O PL 13.4 Item 14) (REP 11.4.1)
5	-	APS Sensor (P/O PL 13.1 Item 12)
6	-	APS Bracket (P/O PL 13.1 Item 12)
7	130K64150	APS Sensor
8	-	Screw (P/O PL 13.1 Item 12)
9	110K11960	Platen Open Switch
10	130E87280	IIT Registration Sensor, Platen Angle Sensor
11	-	Actuator Support (P/O PL 13.1 Item 12)
12	-	Platen Actuator Sensor (P/O PL 13.1 Item 12)
13	-	Extension Spring (P/O PL 13.1 Item 12)
14	604K29710	Lens Kit (220V)
-	604K29711	Lens Kit (120V)

PL13.4

5 { 6-8

14 { 2-4



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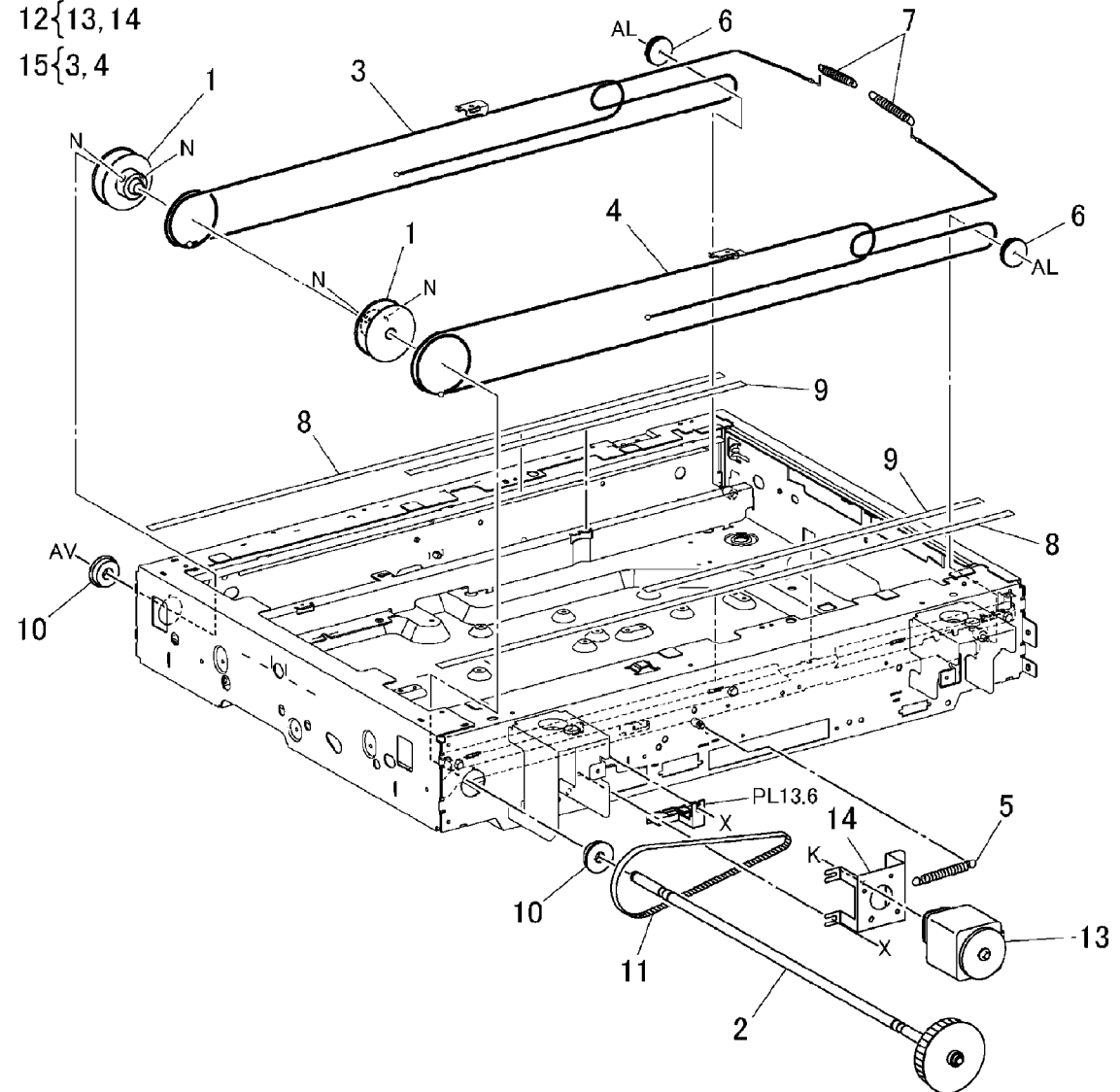
PL 13.5 Carriage Cable/Motor

Item	Part	Description
1	-	Capstan Pulley (P/O PL 13.1 Item 12)
2	-	Drive Shaft (P/O PL 13.1 Item 12)
3	-	Front Carriage Cable (P/O PL 13.5 Item 15)
4	-	Rear Carriage Cable (P/O PL 13.5 Item 15) (REP 11.5.1)
5	-	Extension Spring (P/O PL 13.1 Item 12) (REP 11.5.1)
6	020E37030	Pulley
7	604K20440	Spring Kit
8	-	Tape (P/O PL 13.1 Item 12)
9	-	Tape (P/O PL 13.1 Item 12)
10	-	Bearing (P/O PL 13.1 Item 12)
11	023E26430	Belt
12	127K49532	IIT Motor Assembly (120V)
-	127K49530	IIT Motor Assembly (220V)
13	-	Carriage Motor (P/O PL 13.5 Item 12) (REP 11.5.2)
14	-	Motor Bracket (P/O PL 13.5 Item 12)
15	604K20510	IIT Cable Kit

PL13.5

12{13,14

15{3,4



Right Rear
j0vr51305

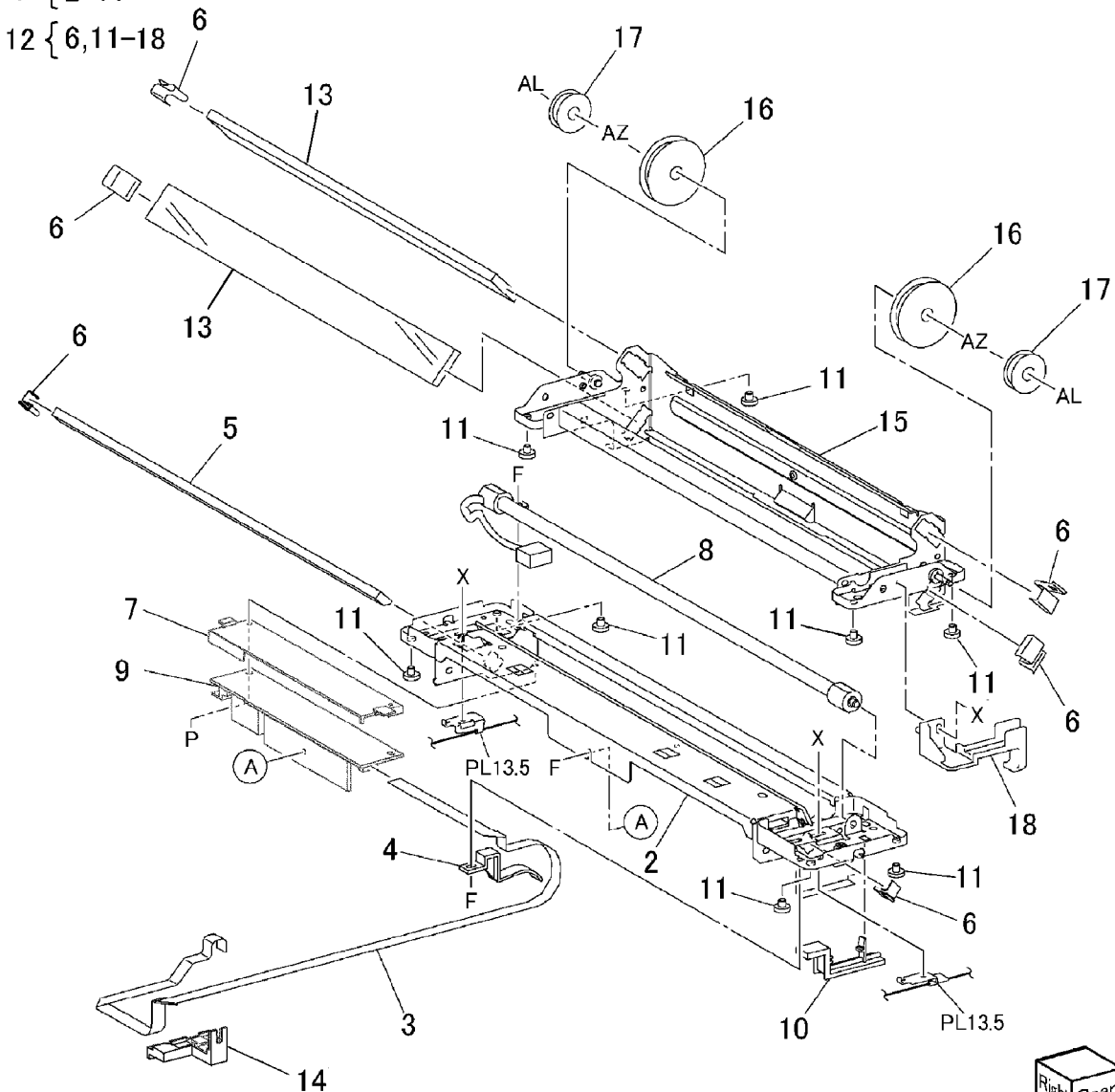
PL 13.6 Full/Half Rate Carriage

Item	Part	Description
1	041K94830	Full Rate Carriage Assembly
2	-	Full Rate Carriage (P/O PL 13.6 Item 1)
3	117E26350	Flat Cable (REP 11.6.2)
4	-	Cord Guide (P/O PL 13.6 Item 1)
5	062E10040	Mirror No. 1
6	-	Mirror Clip (P/O PL 13.6 Item 1)
7	-	Insulator (P/O PL 13.6 Item 1)
8	122K93910	Lamp (REP 11.6.1)
9	105E16700	Exposure Lamp Power Supply
10	-	Cable Guide (P/O PL 13.6 Item 1)
11	-	Pad (P/O PL 13.6 Item 1)
12	041K94441	Half Rate Carriage Assembly
13	-	No.2 Mirror, No.3 Mirror (P/O PL 13.6 Item 12)
14	-	Cord Holder (Not Spared)
15	-	Half Rate Carriage (P/O PL 13.6 Item 12)
16	-	Pulley (P/O PL 13.6 Item 12)
17	020E37030	Pulley
18	-	Cord Guide (P/O PL 13.6 Item 12)

PL13.6

1 { 2-11

12 { 6,11-18

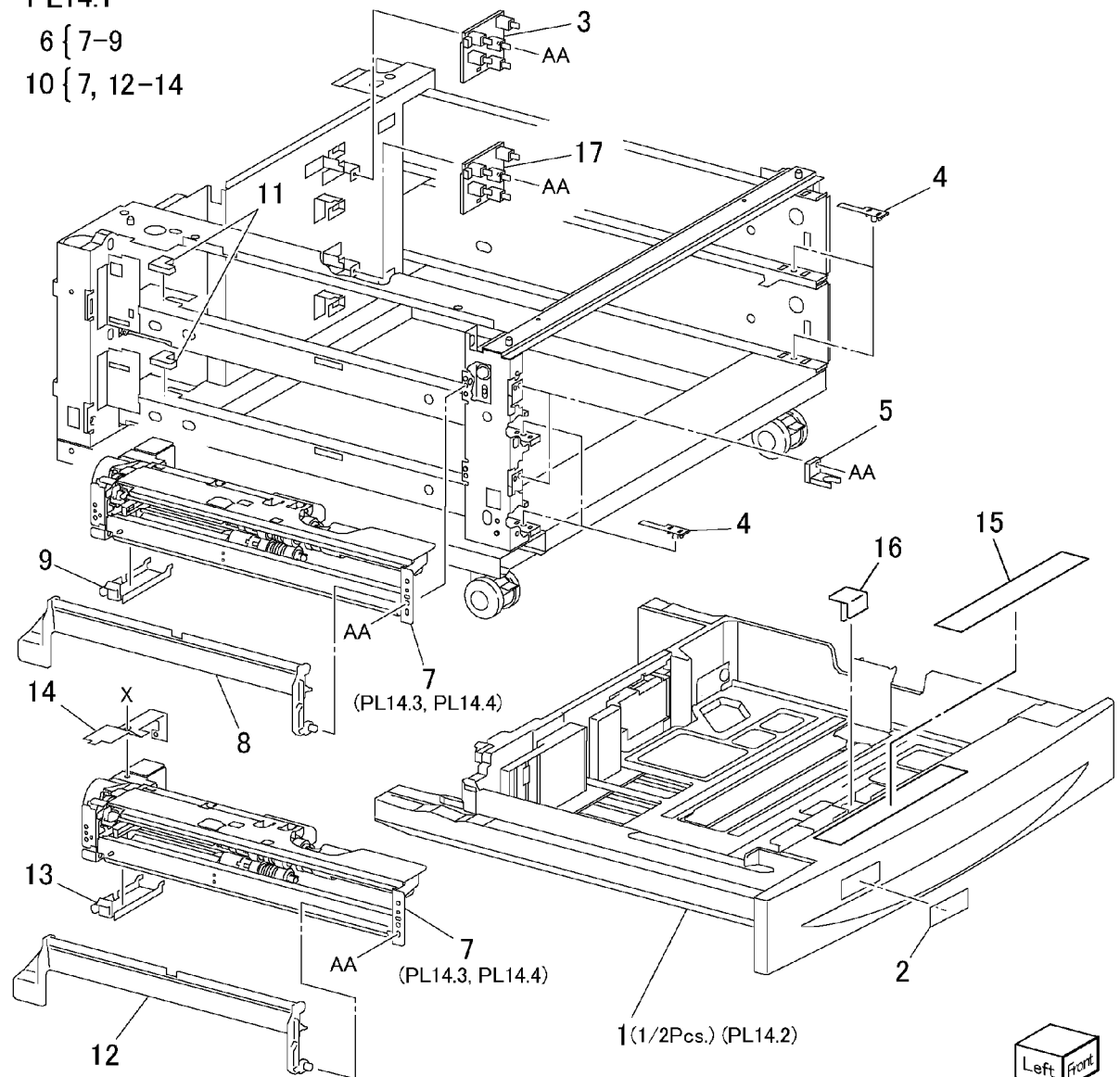


0513006A-ELA

PL 14.1 Tray 2/3 Assembly, Feeder Assembly-2TM

Item	Part	Description
1	-	Tray 2/3 Assembly (Not Spared)
2	604K20550	Kit Tray Label
3	-	Paper Size Switch (Not Spared) (REP 12.6.1)
4	014E51110	Tray Spacer
5	003E61510	Tray Stopper
6	059K42930	Feeder Assembly
7	059K42524	Tray 2 Feeder (REP 12.1.1), Tray 3 Feeder (REP 12.1.2)
8	054E22622	Chute
9	-	Sensor Cover (P/O PL 14.1 Item 6)
10	059K42940	Final Feeder Assembly
11	-	Cushion (Not Spared)
12	-	Feeder Out Chute (P/O PL 14.1 Item 10)
13	-	Sensor Cover (P/O PL 14.1 Item 10)
14	-	Feeder Cover (P/O PL 14.1 Item 10)
15	-	Label (Not Spared)
16	-	Slide Lock Block (Not Spared)
17	-	Paper Size Switch (Not Spared) (REP 12.6.1)

PL14.1
6 { 7-9
10 { 7, 12-14



0514001A-ELN

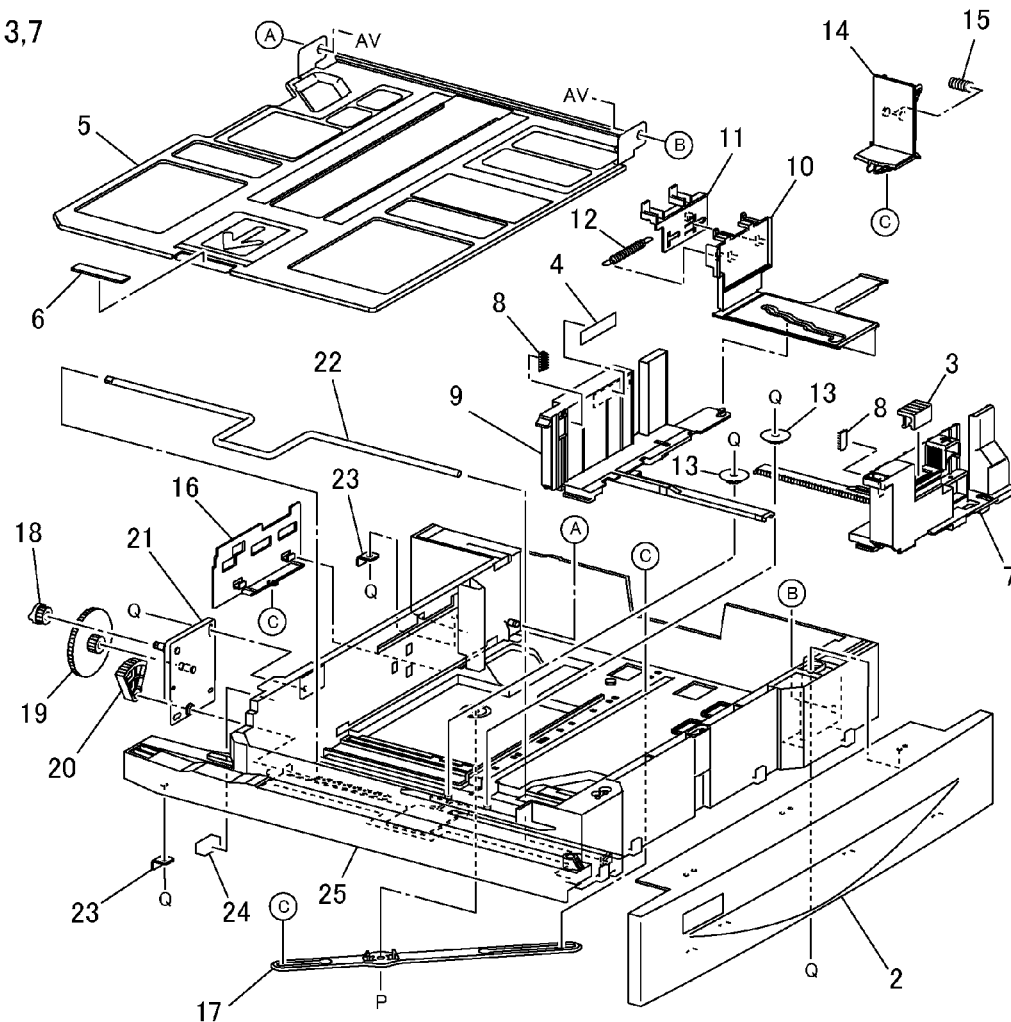
PL 14.2 Tray 2/3 Assembly-2TM

Item	Part	Description
1	604K20541	Tray Gear Kit
2	-	Tray Cover (Not Spared)
3	-	Slide Lock (P/O PL 14.2 Item 26)
4	-	Label (Max) (Not Spared)
5	-	Bottom Plate (P/O PL 14.1 Item 1)
6	-	Bottom Pad (P/O PL 14.1 Item 1)
7	-	Front Side Guide (P/O PL 14.2 Item 26)
8	-	Tray Pad (P/O PL 14.1 Item 1)
9	-	Rear Side Guide (P/O PL 14.1 Item 1)
10	-	Side Guide Actuator (P/O PL 14.1 Item 1)
11	-	Side Actuator (P/O PL 14.1 Item 1)
12	-	Spring (P/O PL 14.1 Item 1)
13	-	Pinion Gear (P/O PL 14.1 Item 1)
14	-	End Guide (P/O PL 14.1 Item 1)
15	-	Spring Guide (P/O PL 14.1 Item 1)
16	-	End Guide Actuator (P/O PL 14.1 Item 1)
17	-	Link (P/O PL 14.1 Item 1)
18	-	Coupling Gear (13T) (P/O PL 14.2 Item 1)
19	-	Gear (13T/60T) (P/O PL 14.2 Item 1)
20	-	Gear (60T) (P/O PL 14.2 Item 1)
21	-	Rear Plate (P/O PL 14.1 Item 1)
22	-	Lift Up Shaft (P/O PL 14.1 Item 1)
23	-	Stopper (P/O PL 14.1 Item 1)
24	-	Seal (P/O PL 14.1 Item 1)
25	-	Cassette Housing (P/O PL 14.1 Item 1)
26	-	Front Side Guide (P/O PL 14.1 Item 1)

PL 14.2

1 { 18-20

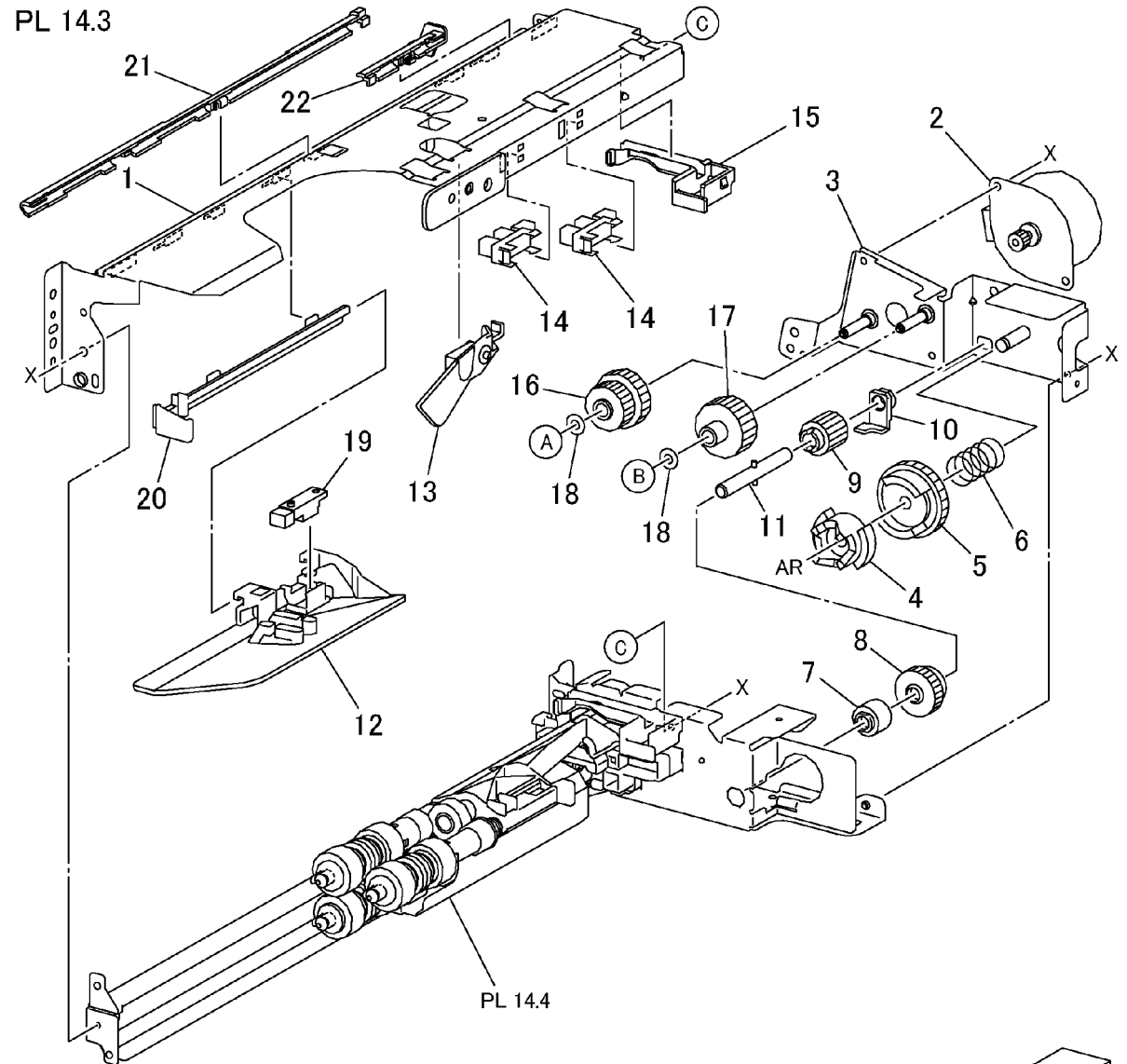
26 { 3,7



0514002A-ELA

PL 14.3 Feeder 1/2 Assembly 2TM (1 of 2)

Item	Part	Description
1	-	Upper Frame (Not Spared)
2	127K38171	Stepper Motor
3	-	Drive Bracket (Not Spared)
4	014E44770	Spacer
5	-	Gear (Not Spared)
6	-	Spring (Not Spared)
7	-	Clutch (Not Spared)
8	-	Gear (Not Spared)
9	-	Gear Spur (33T) (Not Spared)
10	-	Bearing Shaft (Not Spared)
11	-	Drive Shaft (Not Spared)
12	-	Chute (Not Spared)
13	120E22481	SNR Actuator
14	930W00113	Photo In-Level Sensor, Photo In-No Paper Sensor
15	-	Harness Rear Holder (Not Spared)
16	-	Gear (28/21) (Not Spared)
17	-	Gear (29T) (Not Spared)
18	-	Washer (Not Spared)
19	930W00211	Reflection Sensor
20	-	Rail (Not Spared)
21	-	Upper Harness Holder (Not Spared)
22	-	Center Harness Holder (Not Spared)



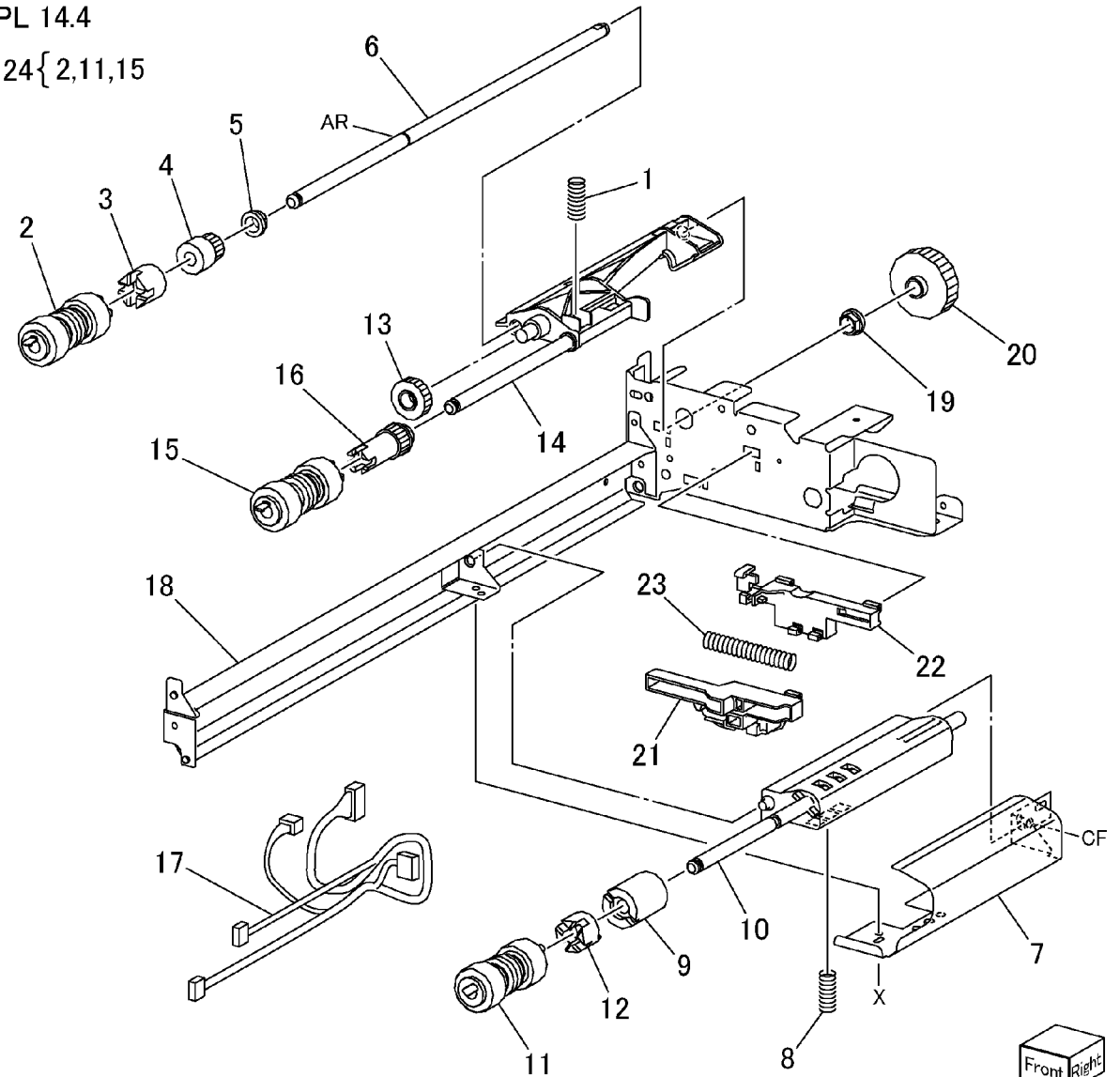
0514003A-ELA

PL 14.4 Feeder 1/2 Assembly 2TM (2 of 2)

Item	Part	Description
1	-	Spring (Not Spared)
2	-	Roll (P/O PL 14.4 Item 24)
3	005K05890	Clutch
4	005K06760	Clutch
5	-	Bearing (Not Spared)
6	-	Feed Shaft (Not Spared)
7	054E23170	Feed In Chute
8	-	Retard Spring (Not Spared)
9	005K07010	Friction Clutch
10	-	Retard Support (Not Spared)
11	-	Roll (P/O PL 14.4 Item 24)
12	-	Spacer (Not Spared)
13	-	Gear (13T) (Not Spared)
14	-	Nudger Support (Not Spared)
15	-	Roll (P/O PL 14.4 Item 24)
16	-	Gear (25T) (Not Spared)
17	962K18912	Feed Harness
18	-	Rear Frame (Not Spared)
19	-	Bearing Sleeve (Not Spared)
20	-	Gear (34T) (Not Spared)
21	-	Lever (Not Spared)
22	-	Holder (Not Spared)
23	-	Spring (Not Spared)
24	604K20360	Tray Feed Roll Kit (REP 12.3.1)

PL 14.4

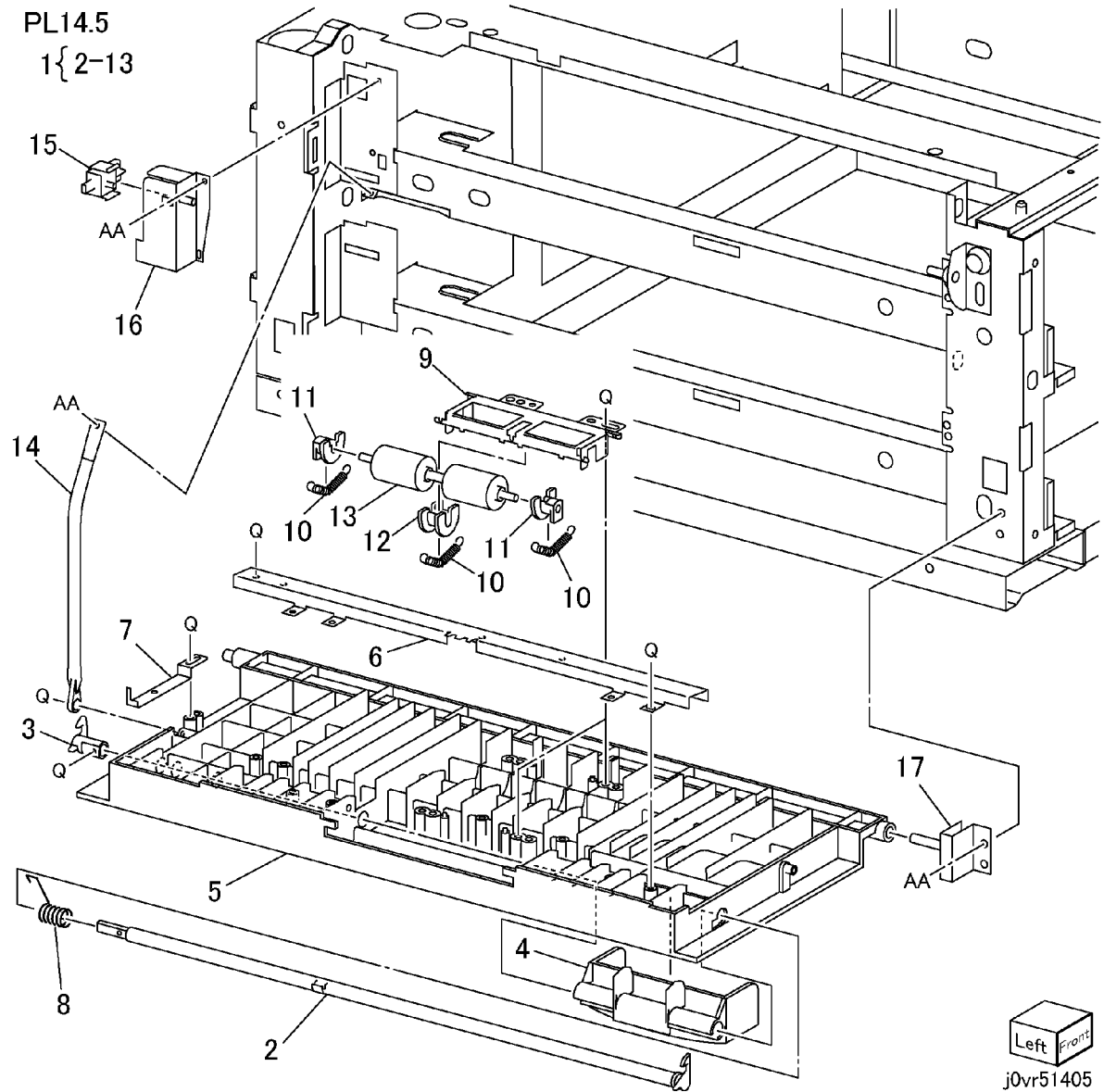
24 { 2,11,15



Front Right
j0vr51404

PL 14.5 Left Cover-2TM

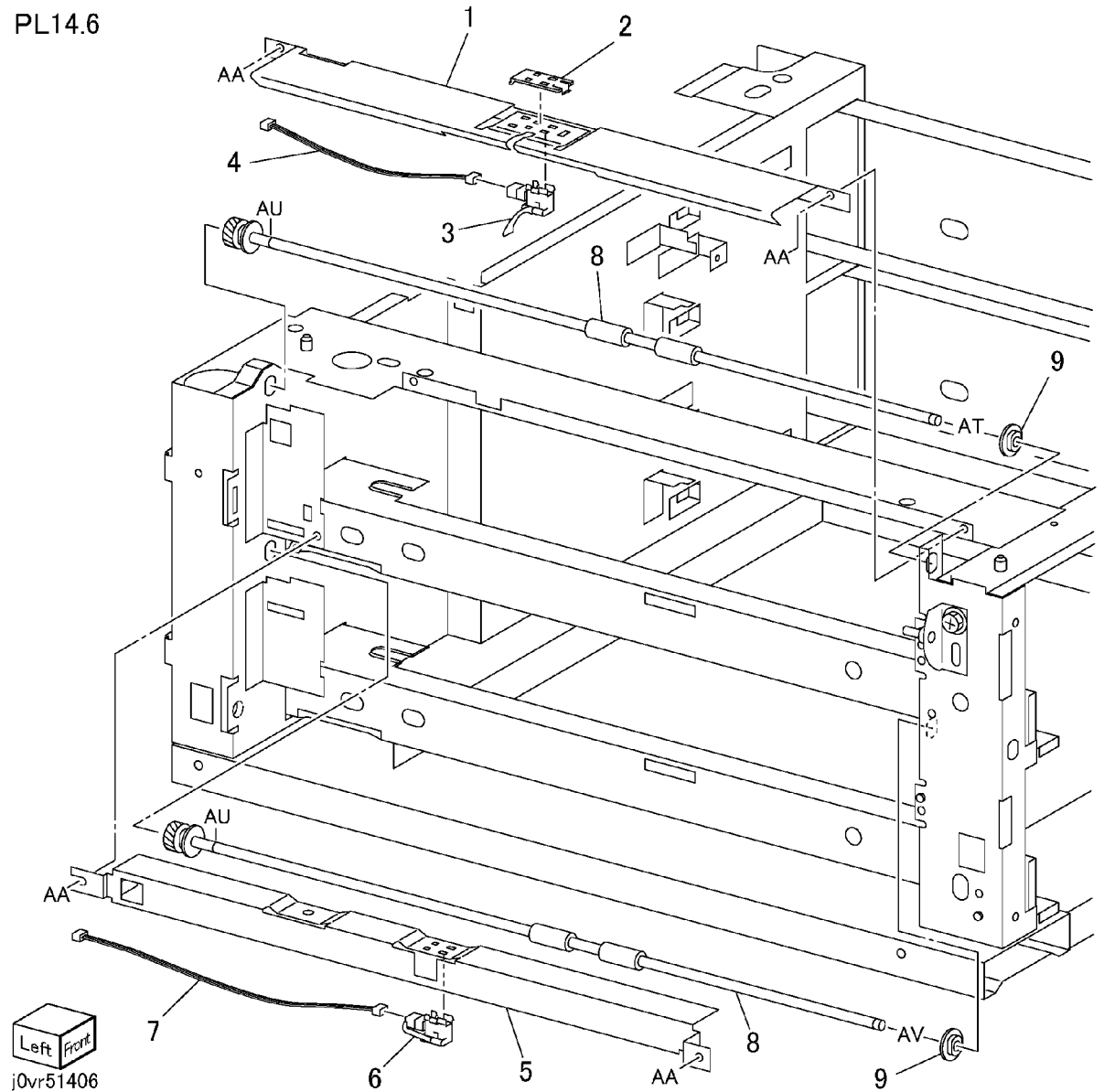
Item	Part	Description
1	802K70854	Left Lower Cover Assembly
2	-	Shaft Latch (P/O PL 14.5 Item 1)
3	-	Hook (P/O PL 14.5 Item 1)
4	-	Handle (P/O PL 14.5 Item 1)
5	-	Left Cover (P/O PL 14.5 Item 1)
6	-	Chute (P/O PL 14.5 Item 1)
7	-	Actuator (P/O PL 14.5 Item 1)
8	-	Latch Spring (P/O PL 14.5 Item 1)
9	-	Pinch Bracket (P/O PL 14.5 Item 1)
10	-	Pinch Spring (P/O PL 14.5 Item 1)
11	-	Bearing (P/O PL 14.5 Item 1)
12	-	Bearing (P/O PL 14.5 Item 1)
13	059E98190	Pinch Roll
14	830E45710	Lefthand Cover Support
15	110E12220	Left Cover Interlock Switch
16	-	Interlock Bracket (Not Spared)
17	-	Pivot Bracket (Not Spared)



PL 14.6 Takeaway Roll-2TM

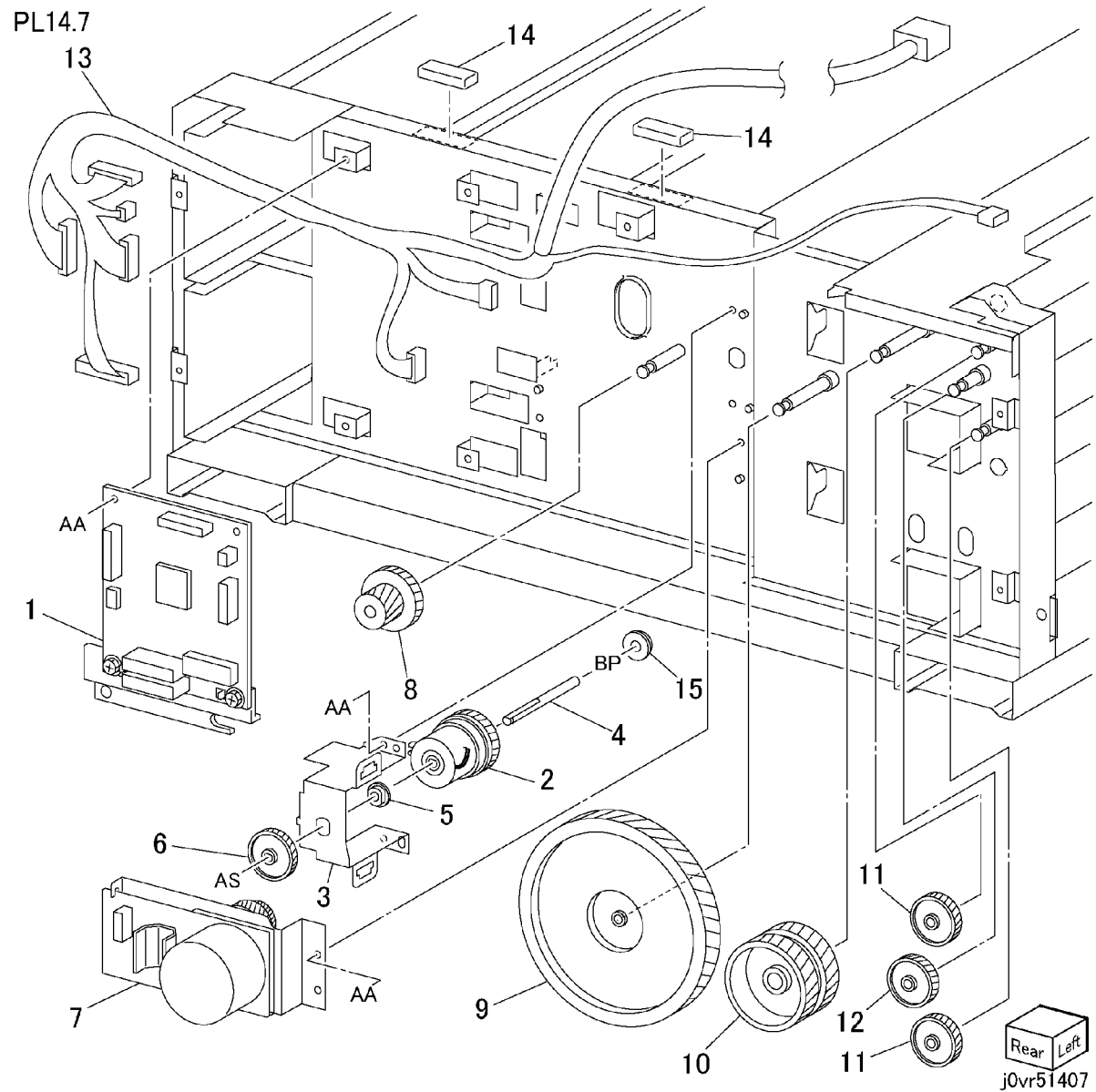
Item	Part	Description
1	-	Chute (Not Spared)
2	-	Cover Sensor (Not Spared)
3	130K64121	Tray 2 Feed Out Sensor
4	962K18171	Wire Harness
5	-	Chute (Not Spared)
6	130K64471	Feed Out Tray 3 Sensor
7	962K18900	Feeder Harness
8	059K40370	Takeaway Roll
9	-	Bearing (Not Spared)

PL14.6



PL 14.7 Electrical-2TM

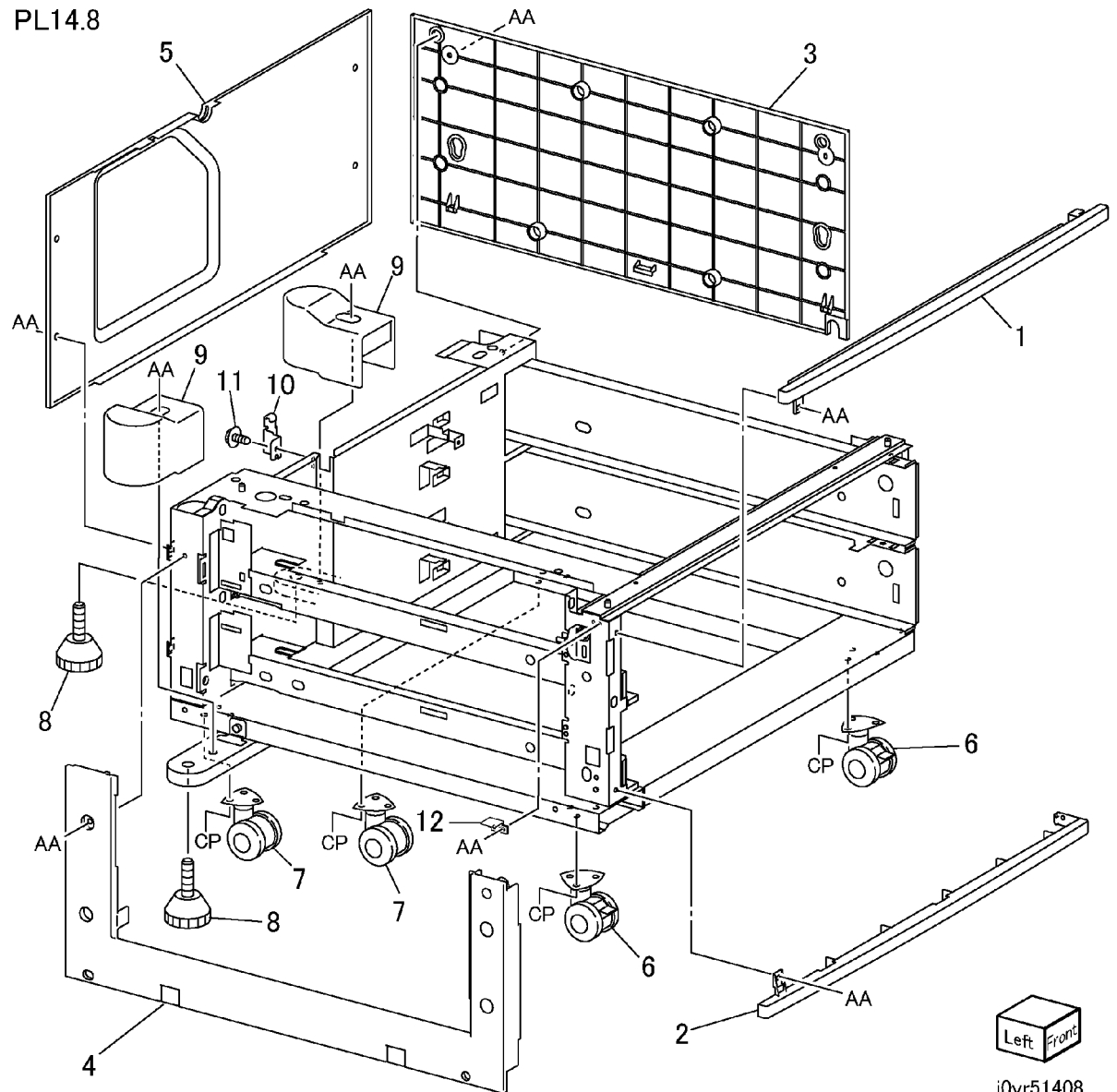
Item	Part	Description
1	960K16565	2Tray Module PWB (REP 12.6.1)
2	121K31530	Clutch
3	-	Clutch Bracket (Not Spared)
4	-	Clutch Shaft (Not Spared)
5	-	Bearing (Not Spared)
6	-	Gear (38T) (Not Spared)
7	007K93900	Takeaway Motor
8	-	Gear (22T/40T) (Not Spared)
9	-	Gear (126T) (Not Spared)
10	-	Gear (60T) (Not Spared)
11	-	Gear (37T) (Not Spared)
12	-	Gear (32T) (Not Spared)
13	962K37330	SLC Harness
14	-	Gasket (Not Spared)
15	604K20720	Bearing Kit



PL 14.8 Cover-2TM

Item	Part	Description
1	-	Top Cover (Not Spared)
2	-	Foot Cover (Not Spared)
3	-	Right Cover (Not Spared)
4	-	Left Cover (Not Spared)
5	-	Rear Cover (Not Spared)
6	-	Caster (Stopper) (Not Spared)
7	-	Caster (Not Spared)
8	-	Foot (Not Spared)
9	-	Foot Cover (Not Spared)
10	-	Docking Bracket (Not Spared)
11	-	Screw (Not Spared)
12	-	IOT Support Bracket (Not Spared)

PL14.8

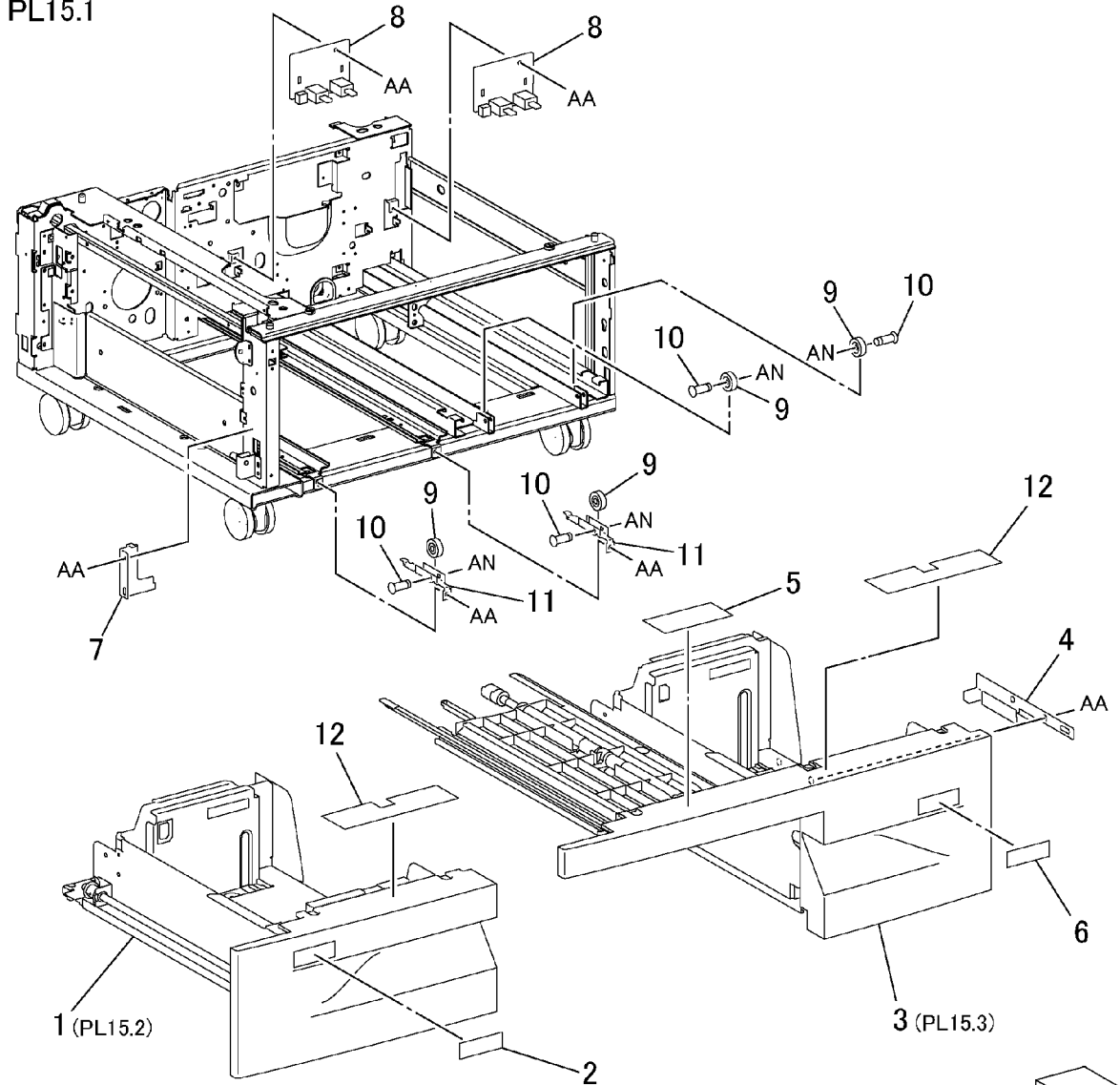


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PL 15.1 Tray 2/3, feeder Assembly-TTM

Item	Part	Description
1	050K53962	Tray 2 Assembly (REP 13.1.1)
2	-	Label (2) (Not Spared)
3	050K53952	Tray 3 Assembly (REP 13.1.2)
4	-	Stop Spring (Not Spared)
5	-	Label (TTM) (Not Spared)
6	-	Label (3) (Not Spared)
7	-	Bracket Stopper (Not Spared)
8	110K11820	Paper Size Switch (REP 13.8.1)
9	059E98210	Roller
10	-	Shaft (Not Spared)
11	-	Roll Bracket (Not Spared)
12	-	Label (Instruction) (Not Spared)

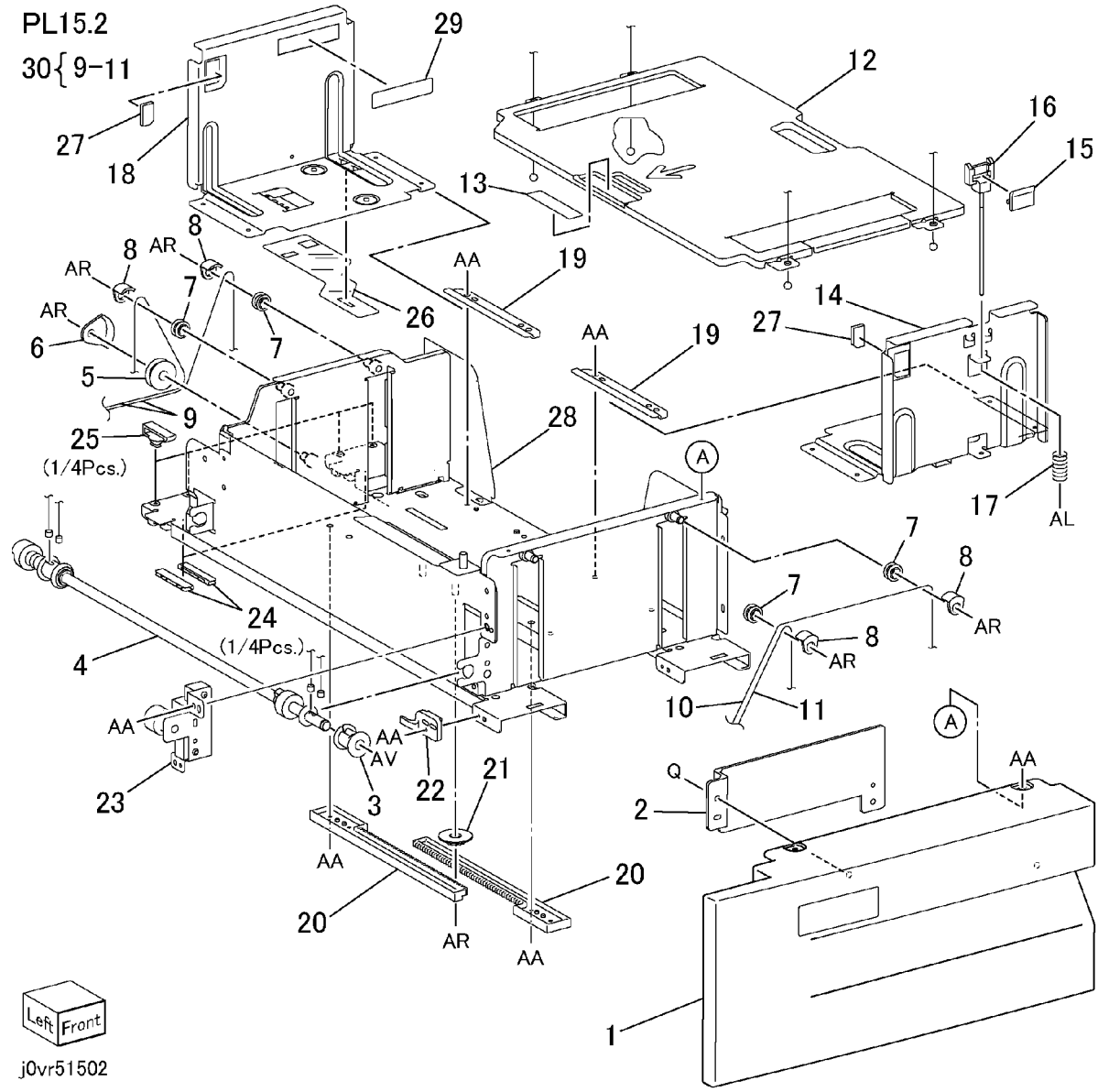
PL15.1



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PL 15.2 Tray 2 Assembly-TTM

Item	Part	Description
1	-	Left Tray Cover (P/O PL 15.1 Item 1)
2	-	Handle Tray (P/O PL 15.1 Item 1)
3	020E36821	Pulley Cable
4	006K23014	Lift Shaft
5	020E36560	Pulley
6	032E20890	Cable Guide
7	604K20730	Pulley
8	604K20740	Cable Guide
9	-	Left Rear Cable (P/O PL 15.2 Item 30) (REP 13.3.1)
10	-	Left Front Cable (P/O PL 15.2 Item 30) (REP 13.3.1)
11	-	Left Cable (P/O PL 15.2 Item 30)
12	-	Bottom Plate (P/O PL 15.1 Item 1)
13	-	Pad (P/O PL 15.1 Item 1)
14	-	Front Side Guide (P/O PL 15.1 Item 1)
15	-	Knob (P/O PL 15.1 Item 1)
16	-	Knob (P/O PL 15.1 Item 1)
17	-	Spring (P/O PL 15.1 Item 1)
18	-	Rear Side Guide (P/O PL 15.1 Item 1)
19	-	Side 1 Guide Bracket (P/O PL 15.1 Item 1)
20	-	Gear Rack (P/O PL 15.1 Item 1)
21	-	Pinion (P/O PL 15.1 Item 1)
22	003E49861	Stopper
23	030K75541	Brake Bracket
24	-	Rail Spacer (P/O PL 15.1 Item 1)
25	-	Spacer (P/O PL 15.1 Item 1)
26	-	Actuator (P/O PL 15.1 Item 1)
27	-	Pad (P/O PL 15.1 Item 1)
28	-	Tray Base (P/O PL 15.1 Item 1)
29	-	Label (Max) (Not Spared)
30	604K20750	Cable Guide Kit

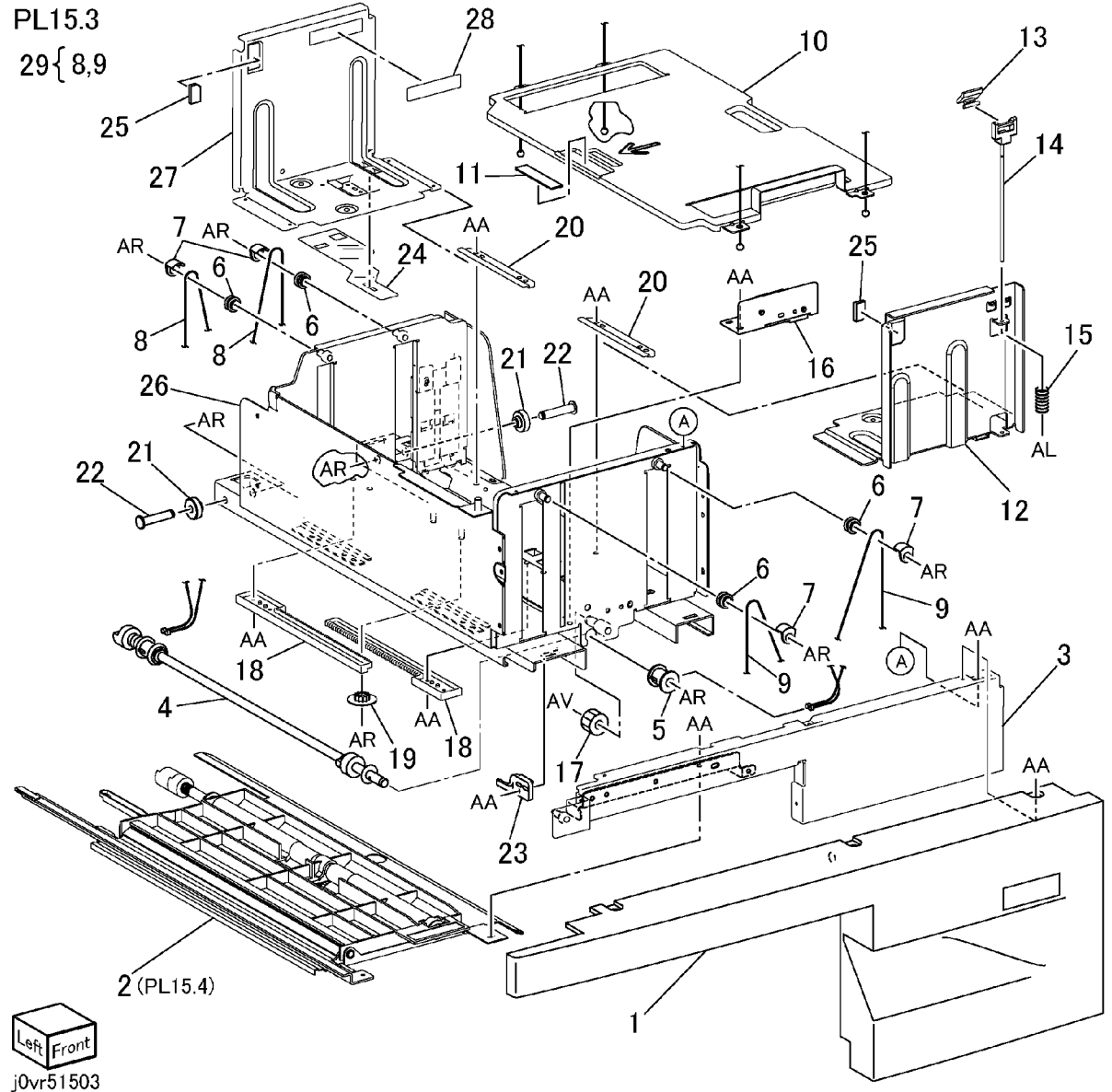


Left Front
j0vr51502

PL 15.3 Tray 3 Assembly-TTM

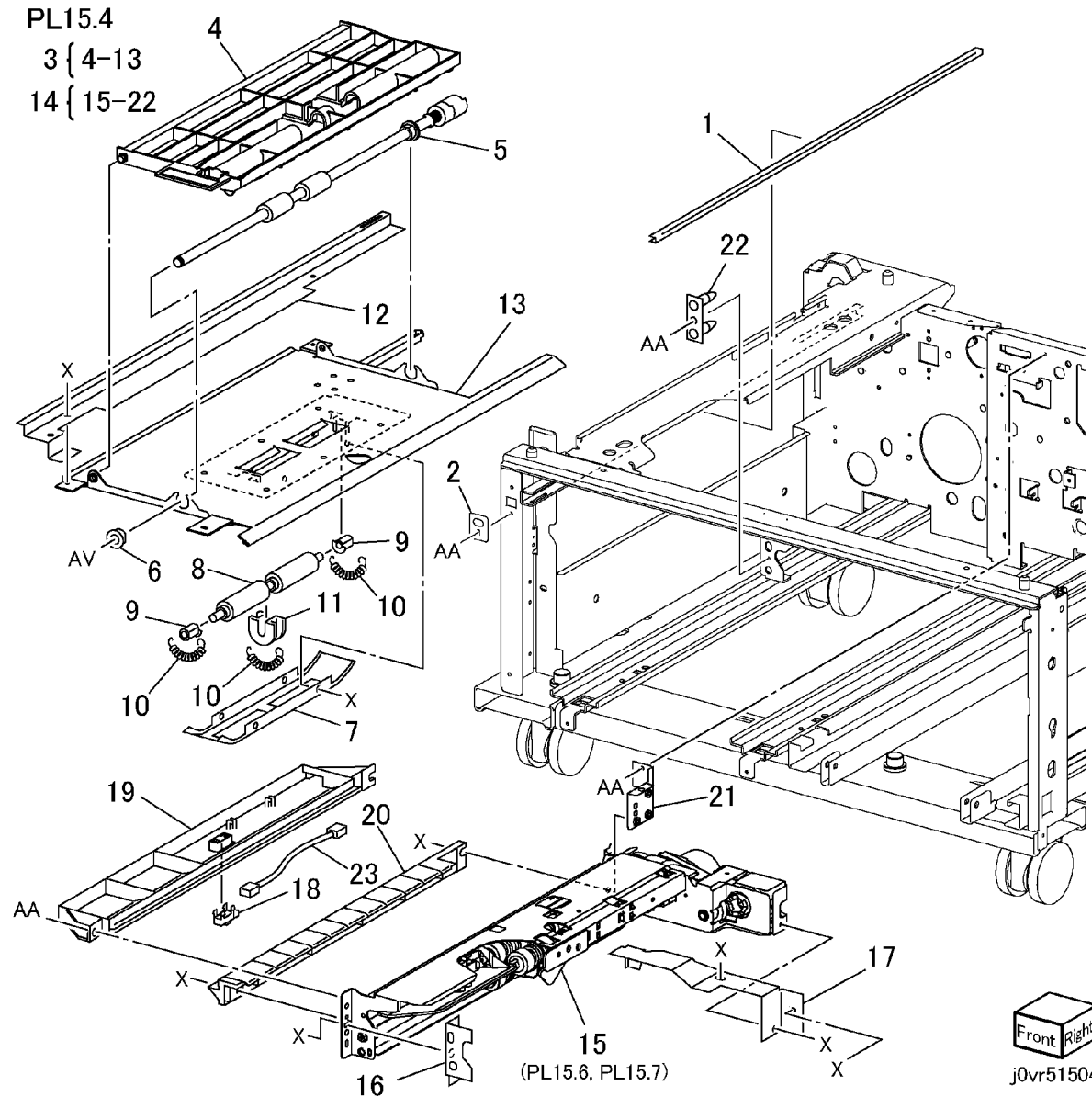
Item	Part	Description
1	-	Tray Cover (P/O PL 15.1 Item 3)
2	059K26340	Transport Assembly
3	-	Frame (P/O PL 15.1 Item 3)
4	006K23014	Shaft
5	020E36821	Pulley
6	-	Pulley (P/O PL 15.1 Item 3)
7	-	Cable Guide (P/O PL 15.1 Item 3)
8	-	Right Rear Cable (P/O PL 15.2 Item 30) (REP 13.3.1)
9	-	Right Front Cable (P/O PL 15.2 Item 30) (REP 13.3.1)
10	-	Bottom Plate (P/O PL 15.1 Item 3)
11	-	Pad (P/O PL 15.1 Item 3)
12	-	Front Side Guide (P/O PL 15.1 Item 3)
13	-	Knob (P/O PL 15.1 Item 3)
14	-	Knob (P/O PL 15.1 Item 3)
15	-	Spring (P/O PL 15.1 Item 3)
16	-	Brake Bracket (P/O PL 15.1 Item 3)
17	007E78390	Gear
18	-	Rack Gear (P/O PL 15.1 Item 3)
19	-	Pinion (P/O PL 15.1 Item 3)
20	-	Bracket (P/O PL 15.1 Item 3)
21	-	Rail Roll (P/O PL 15.1 Item 3)
22	-	Shaft (P/O PL 15.1 Item 3)
23	003E49861	Stopper
24	-	Actuator (P/O PL 15.1 Item 3)
25	-	Pad (P/O PL 15.1 Item 3)
26	-	Tray Base (P/O PL 15.1 Item 3)
27	-	Rear Side Guide (P/O PL 15.1 Item 3)
28	-	Label (Max) (P/O PL 15.1 Item 3)
29	604K20750	Tray Cable Kit

PL15.3
29{ 8,9



PL 15.4 Paper Feed (1 of 2)-TTM

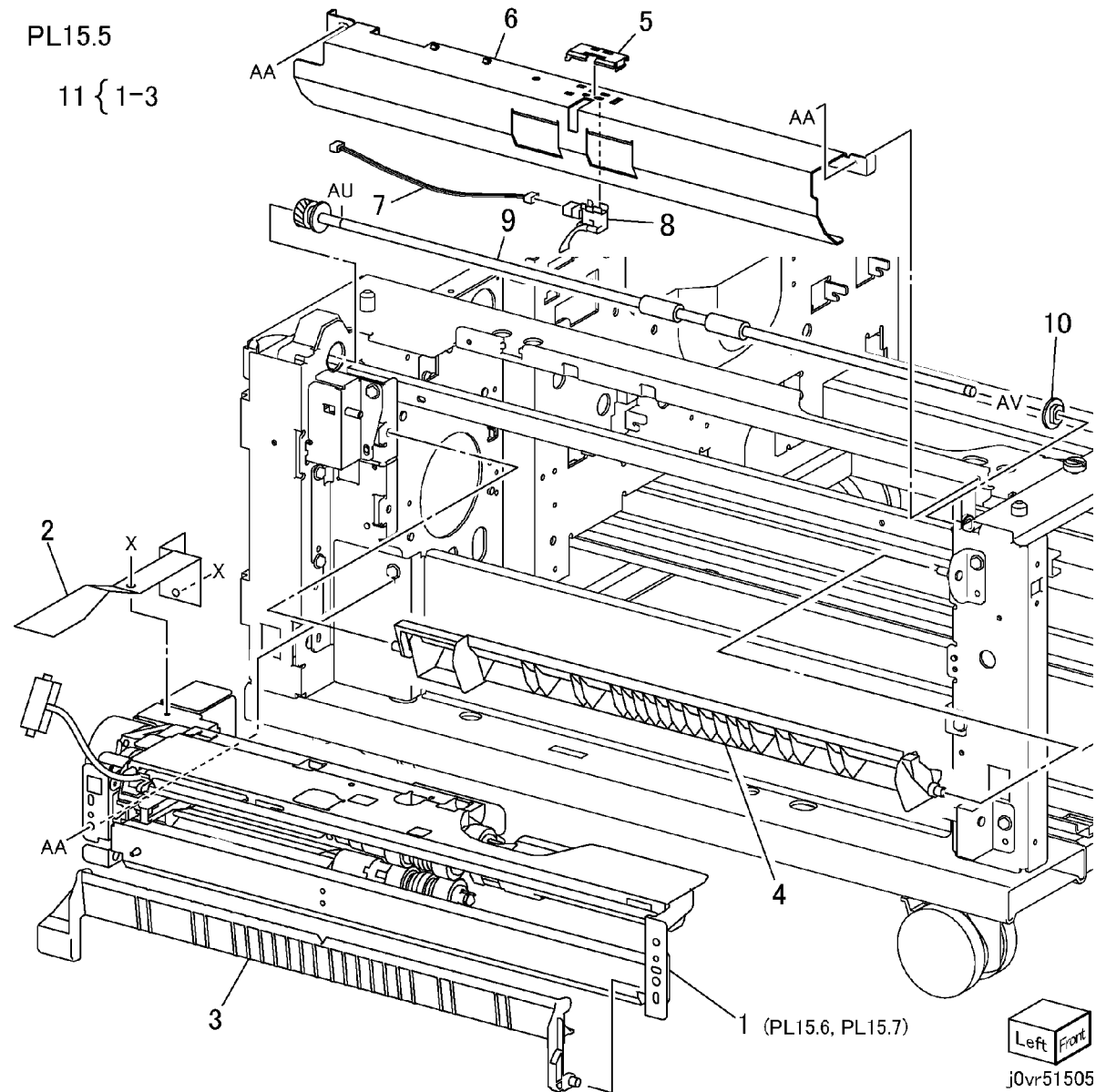
Item	Part	Description
1	-	Guide Rail (P/O PL 15.3 Item 2)
2	-	Guide (P/O PL 15.3 Item 2)
3	059K26340	Transport Assembly
4	-	Upper Chute (P/O PL 15.4 Item 3)
5	059K26350	Takeaway Roll
6	413W77559	Bearing
7	-	pinch Cover (P/O PL 15.4 Item 3)
8	059E98860	Pinch Roll
9	-	Bearing (P/O PL 15.4 Item 3)
10	-	Spring (P/O PL 15.4 Item 3)
11	-	Bearing (P/O PL 15.4 Item 3)
12	-	Transport Rail (P/O PL 15.4 Item 3)
13	-	Low Chute (P/O PL 15.4 Item 3)
14	059K42960	Feeder Assembly
15	059K42524	Tray 3 Feeder (REP 13.4.1)
16	-	Bracket (P/O PL 15.4 Item 14)
17	-	Cover (P/O PL 15.4 Item 14)
18	930W00212	Sensor
19	-	Upper Chute (P/O PL 15.4 Item 14)
20	-	Lower Chute (P/O PL 15.4 Item 14)
21	-	Bracket (P/O PL 15.4 Item 14)
22	-	Harness (P/O PL 15.4 Item 14)
23	-	Harness (Not Spared)



PL 15.5 Paper Feed (2 of 2)-TTM

Item	Part	Description
1	059K42524	Tray 2 Feeder (REP 13.5.1)
2	-	Cover (P/O PL 15.5 Item 11)
3	054E22622	Feed Out Chute
4	-	Feed Low Chute (Not Spared)
5	-	Sensor Cover (Not Spared)
6	-	Chute (Not Spared)
7	962K18171	Harness
8	130K64121	Feed Out Sensor
9	059K40370	Transport Roll
10	-	Bearing (Not Spared)
11	059K42950	Feeder Assembly

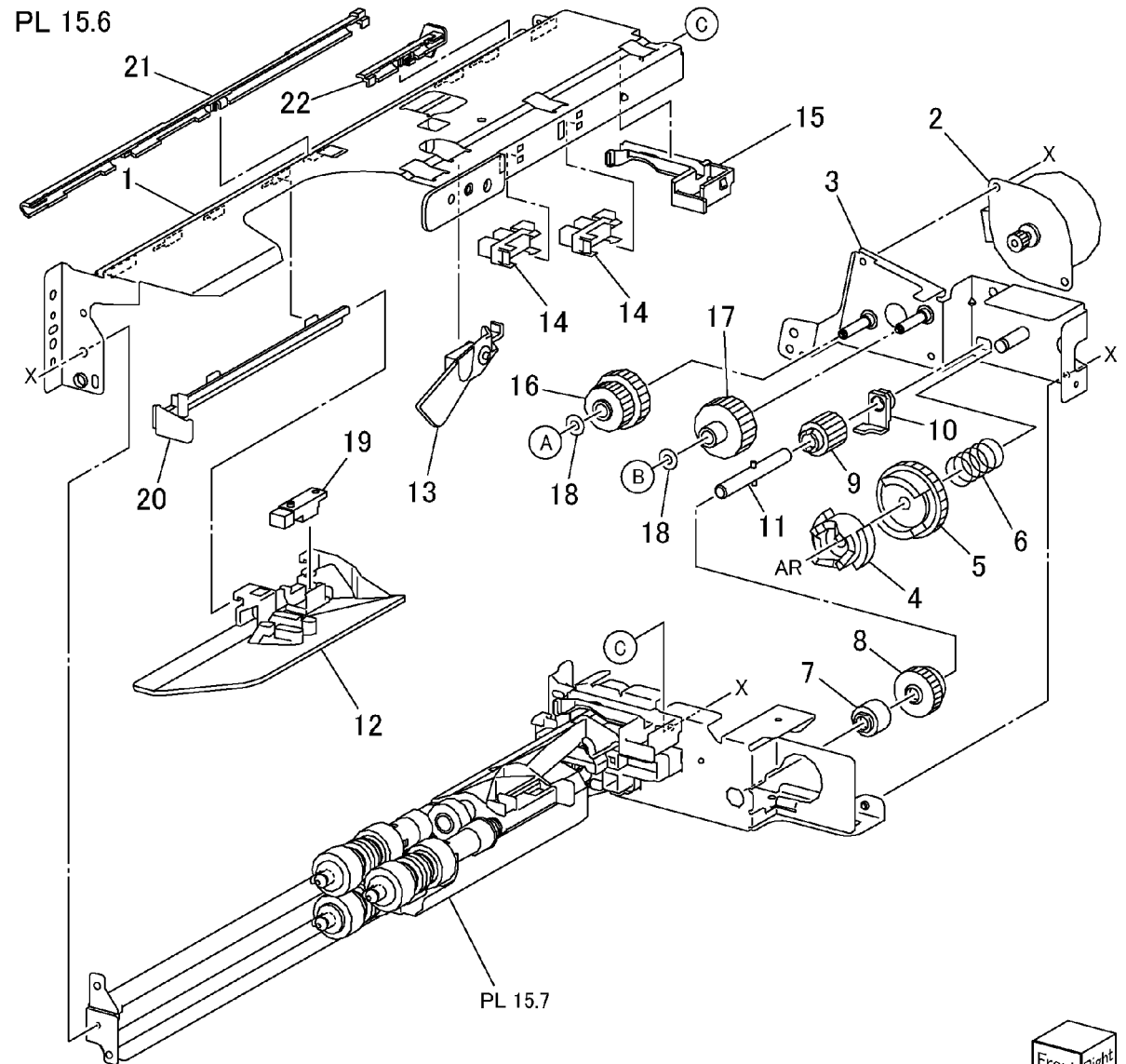
PL15.5
11 { 1-3



Left Front
j0vr51505

PL 15.6 Feeder 1 Assembly (1 of 2)

Item	Part	Description
1	-	Upper Frame (P/O PL 15.5 Item 1)
2	127K38171	Stepping Motor
3	-	Drive Bracket (P/O PL 15.5 Item 1)
4	014E44770	Spacer
5	-	Gear (31T) (P/O PL 15.5 Item 1)
6	-	Spring (P/O PL 15.5 Item 1)
7	-	Oneway Clutch (P/O PL 15.5 Item 1)
8	-	Oneway Gear (P/O PL 15.5 Item 1)
9	-	Gear (33T) (P/O PL 15.5 Item 1)
10	-	Bearing (P/O PL 15.5 Item 1)
11	-	Shaft (P/O PL 15.5 Item 1)
12	-	Front Chute (P/O PL 15.5 Item 1)
13	120E22481	Actuator
14	930W00113	Photo Level Sensor, Photo No Paper Sensor
15	-	Harness Rear Holder (P/O PL 15.5 Item 1)
16	-	Gear (28/21T) (P/O PL 15.5 Item 1)
17	-	Gear (29T) (P/O PL 15.5 Item 1)
18	-	Washer (P/O PL 15.5 Item 1)
19	930W00211	Reflection Sensor
20	-	Rail (P/O PL 15.5 Item 1)
21	-	Harness Upper Holder (P/O PL 15.5 Item 1)
22	-	Harness Holder (CTR) (P/O PL 15.5 Item 1)

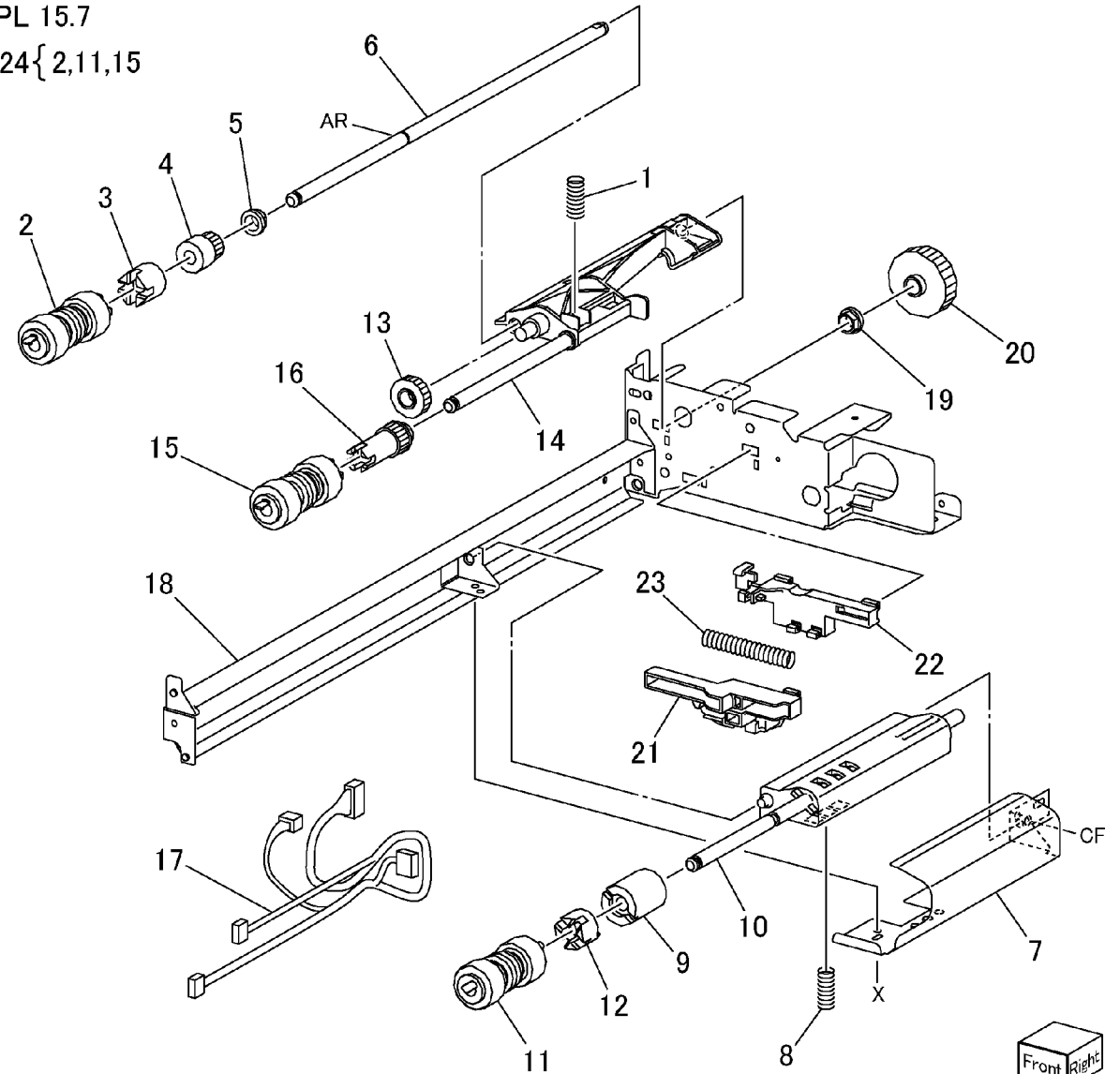


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PL 15.7 Feeder 1 Assembly (2 of 2)

Item	Part	Description
1	–	Spring (P/O PL 15.5 Item 1)
2	–	Roll (P/O PL 15.7 Item 24)
3	005K05890	Clutch
4	005K06760	Clutch (22T)
5	–	Bearing (P/O PL 15.5 Item 1)
6	–	Feed Shaft (P/O PL 15.5 Item 1)
7	054E23170	Feed In Chute
8	–	Retard Spring (P/O PL 15.5 Item 1)
9	005K07010	Friction Clutch
10	–	Retard Support (P/O PL 15.5 Item 1)
11	–	Roll (P/O PL 15.7 Item 24)
12	–	Spacer (P/O PL 15.5 Item 1)
13	–	Gear (13T) (P/O PL 15.5 Item 1)
14	–	Support Nudger (P/O PL 15.5 Item 1)
15	–	Roll (P/O PL 15.5 Item 1)
16	–	Gear (25T) (P/O PL 15.5 Item 1)
17	962K18912	Feed Harness
18	–	Rear Frame (P/O PL 15.5 Item 1)
19	–	Bearing Sleeve (P/O PL 15.5 Item 1)
20	–	Gear (34T) (P/O PL 15.5 Item 1)
21	–	Lever (P/O PL 15.5 Item 1)
22	–	Holder (P/O PL 15.5 Item 1)
23	–	Spring (P/O PL 15.5 Item 1)
24	604K20360	Tray Feed Roll Kit (Not Spared) (REP 13.6.1)

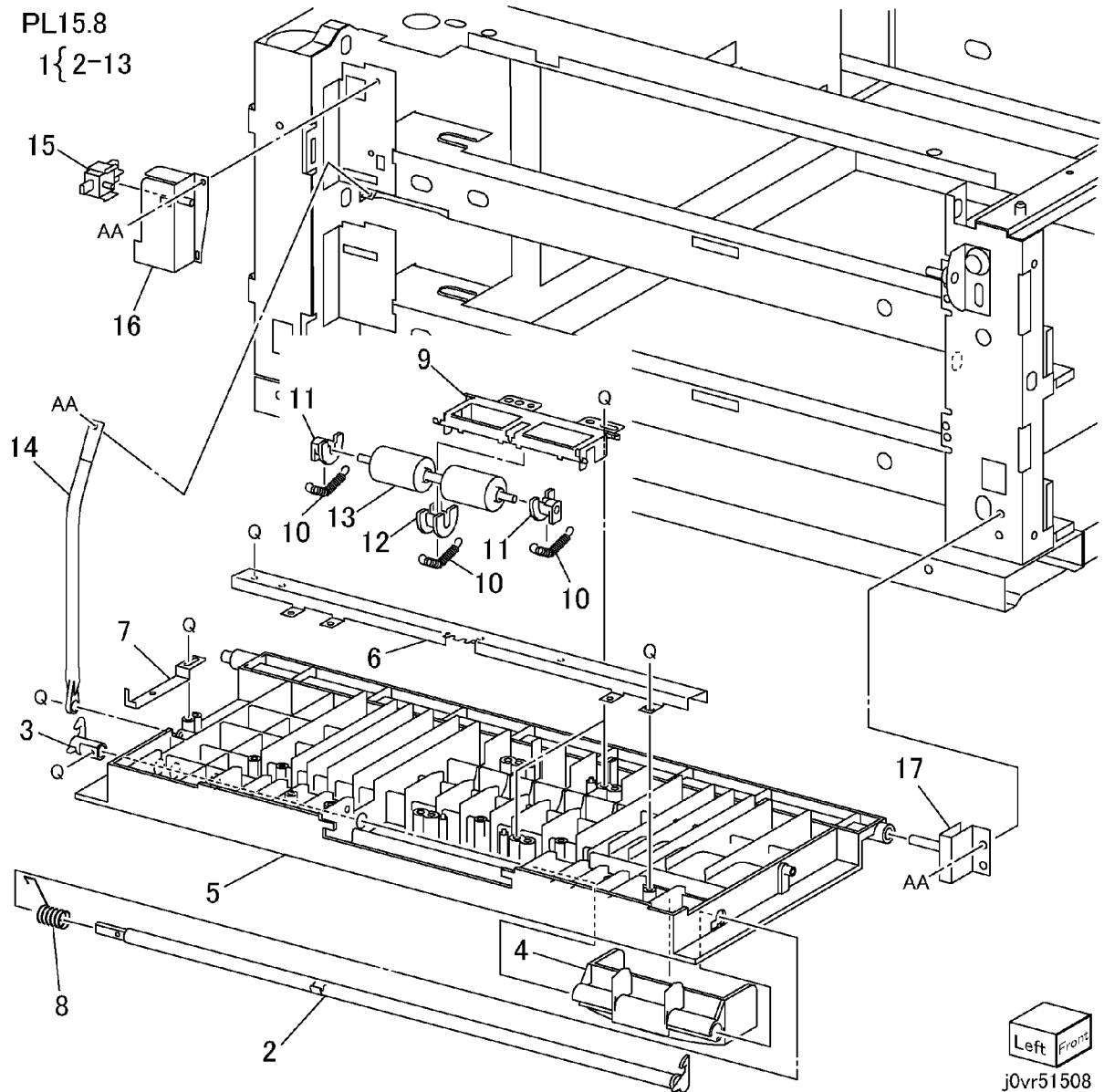
PL 15.7
24 { 2,11,15



Front Right
j0vr51507

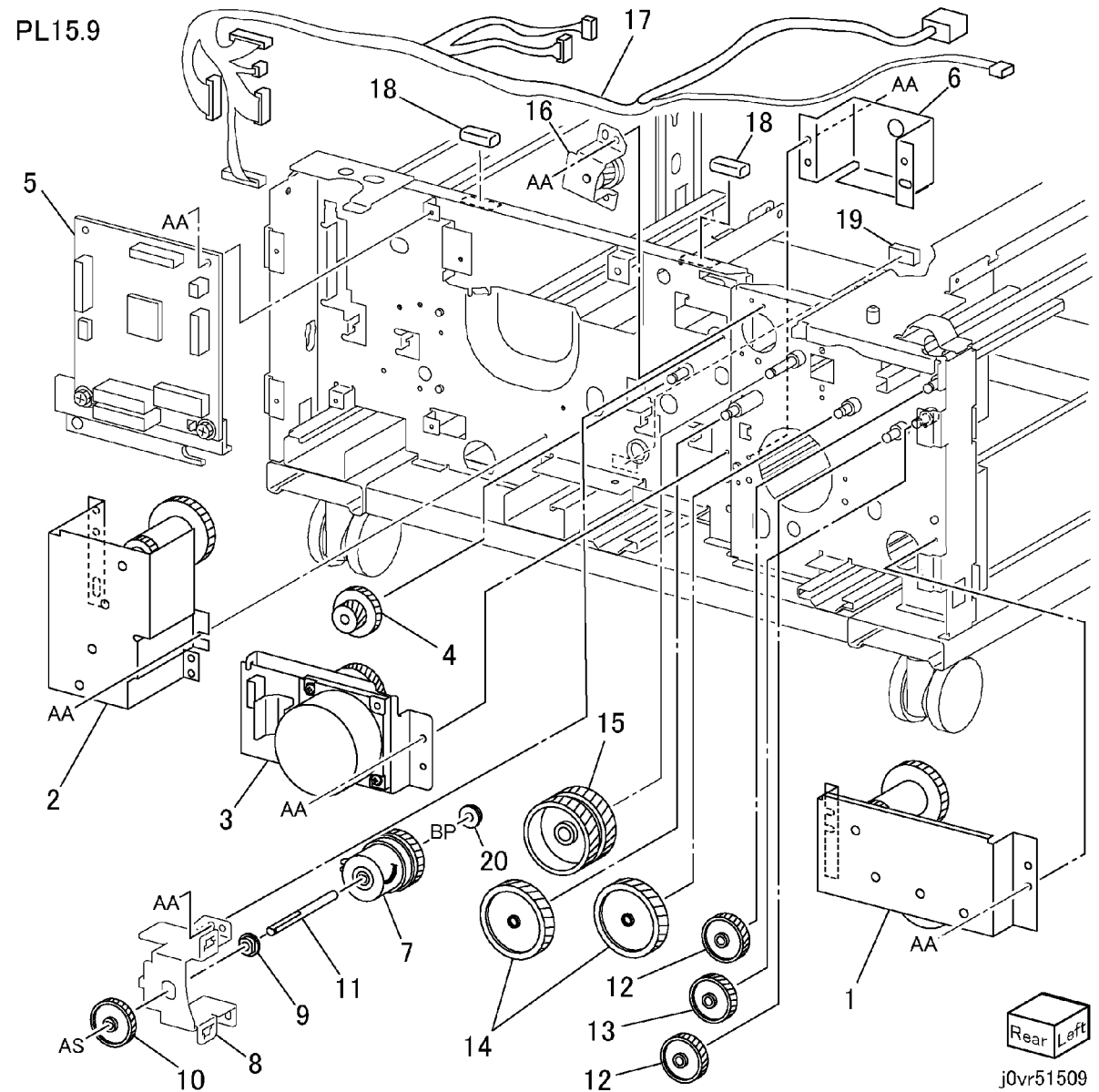
PL 15.8 Left Cover-TTM

Item	Part	Description
1	802K70854	Left Lower Cover Assembly
2	-	Shaft Latch (P/O PL 15.8 Item 1)
3	-	Hook (P/O PL 15.8 Item 1)
4	-	Handle (P/O PL 15.8 Item 1)
5	802K53489	Left Cover
6	-	Chute (P/O PL 15.8 Item 1)
7	-	Actuator (P/O PL 15.8 Item 1)
8	-	Latch Spring (P/O PL 15.8 Item 1)
9	-	Pinch Bracket (P/O PL 15.8 Item 1)
10	-	Pinch Spring (P/O PL 15.8 Item 1)
11	-	Bearing (P/O PL 15.8 Item 1)
12	-	Bearing (P/O PL 15.8 Item 1)
13	059E98190	Pinch Roll
14	830E45710	Lefthand Cover Support
15	110E12220	Interlock Switch
16	-	Interlock Bracket (Not Spared)
17	-	Pivot Bracket (Not Spared)



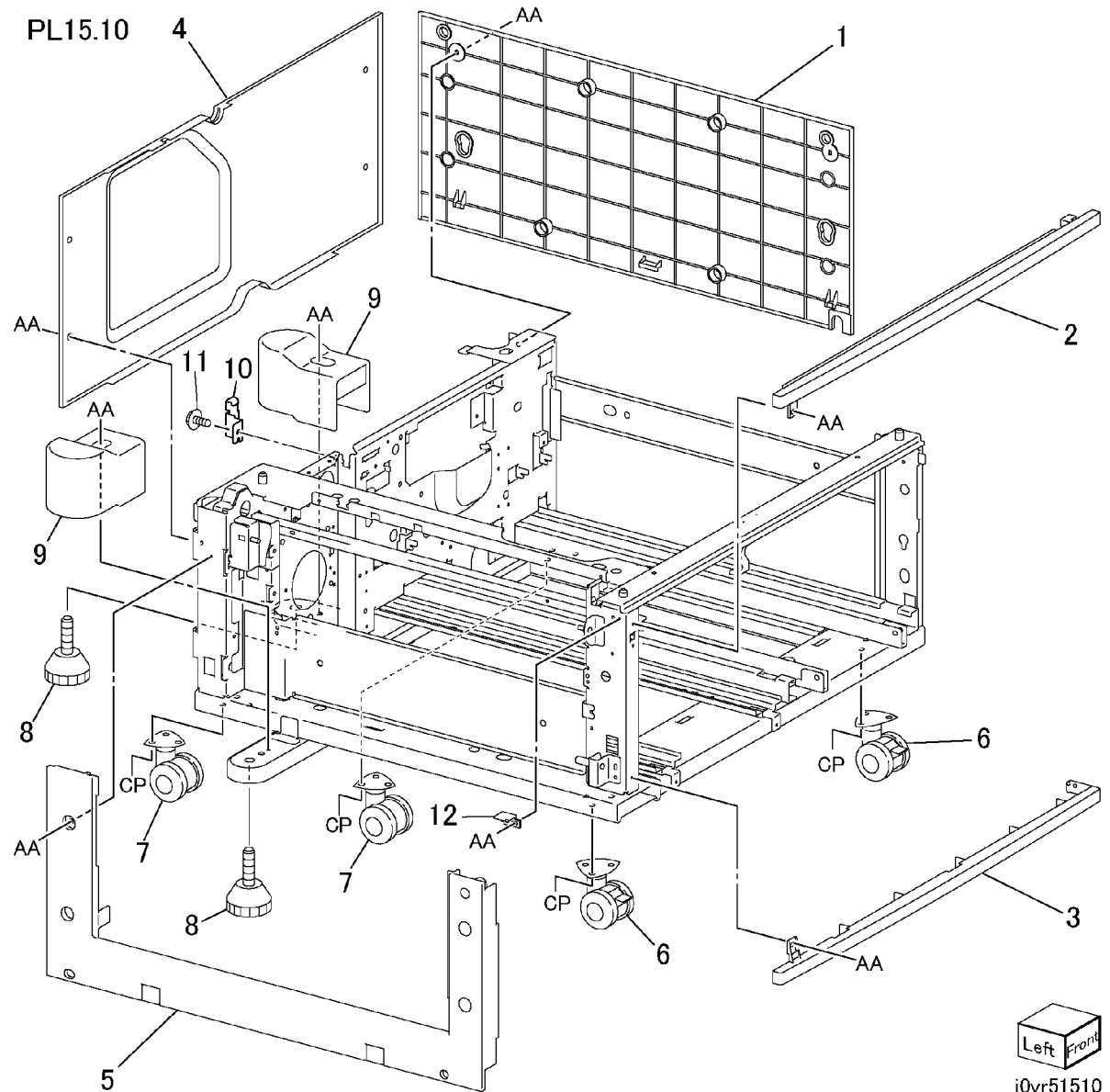
PL 15.9 Electrical-TTM

Item	Part	Description
1	-	Gear Bracket (Not Spared)
2	-	Gear Bracket (Not Spared)
3	007K93900	Takeaway Motor
4	-	Gear (22T/40T) (Not Spared)
5	960K16565	Tray Module PWB
6	-	Gear Bracket Cover (Not Spared)
7	121K31530	Clutch
8	-	Clutch Bracket (Not Spared)
9	-	Bearing (Not Spared)
10	-	Gear (38T) (Not Spared)
11	-	Shaft (Not Spared)
12	-	Gear (37T) (Not Spared)
13	-	Gear (32T) (Not Spared)
14	-	Gear (60T) (Not Spared)
15	-	Gear (60T) (Not Spared)
16	-	Transport Bracket (Not Spared)
17	962K37340	TTM Harness
18	-	Gasket (Not Spared)
19	-	Gasket (Not Spared)
20	-	Bearing (Not Spared)



PL 15.10 Cover-TTM

Item	Part	Description
1	-	Right Cover (Not Spared)
2	-	Top Cover (Not Spared)
3	-	Foot Cover (Not Spared)
4	-	Rear Lower Cover (Not Spared)
5	-	Left Cover (Not Spared)
6	-	Caster (Stopper) (Not Spared)
7	-	Caster (Not Spared)
8	-	Foot (Not Spared)
9	-	Foot Cover (Not Spared)
10	-	Docking Bracket (Not Spared)
11	-	Screw (Not Spared)
12	-	IOT Support Bracket (Not Spared)

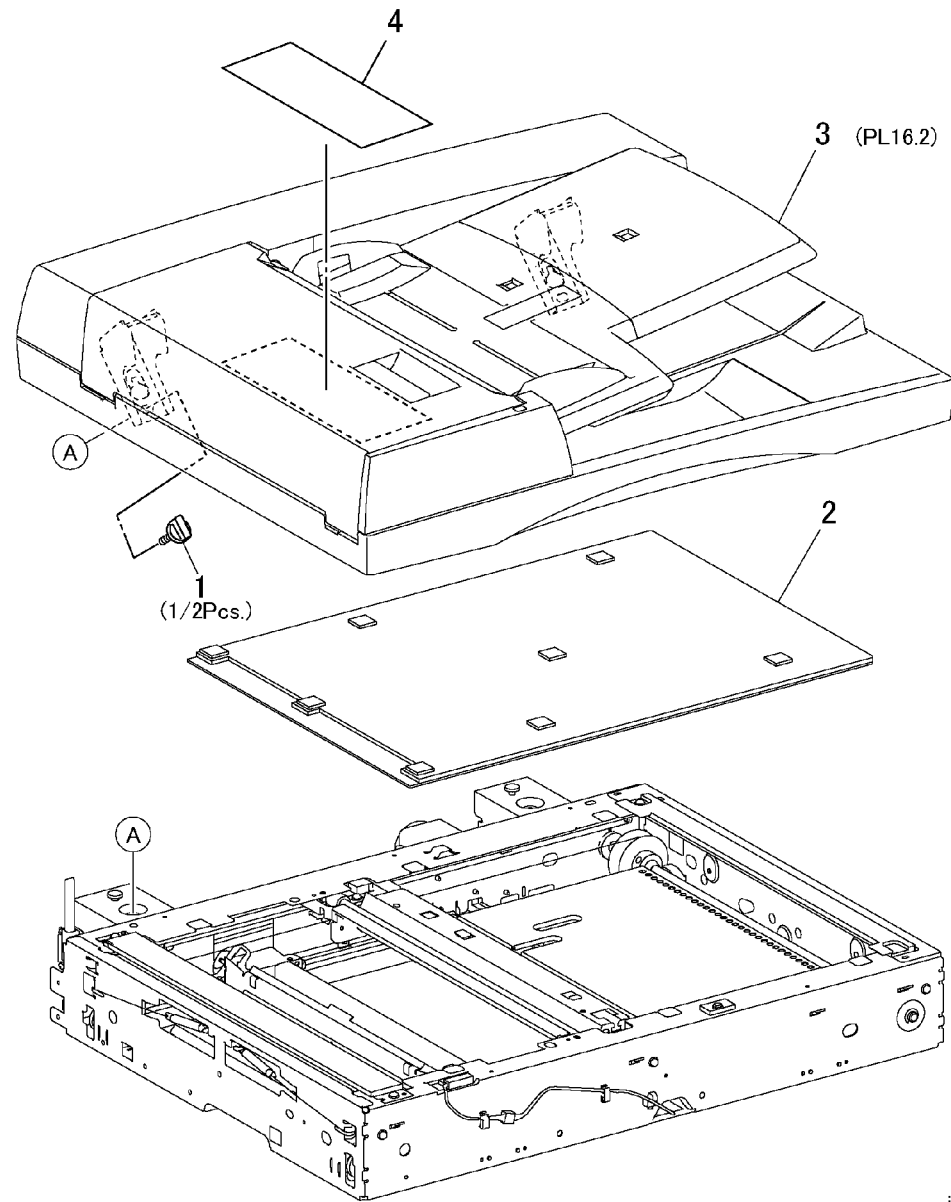


PL 16.1 DADF Accessory

Item	Part	Description
1	003K91881	Knob Screw
2	-	DADF Platen Cushion (P/O PL 16.1 Item 5) (REP 15.1.2)
3	059K45205	Feeder Assembly (REP 15.1.1)
4	-	Label (Not Spared)
5	604K25430	Frame Side Velcro Kit

PL16.1

5 { 2

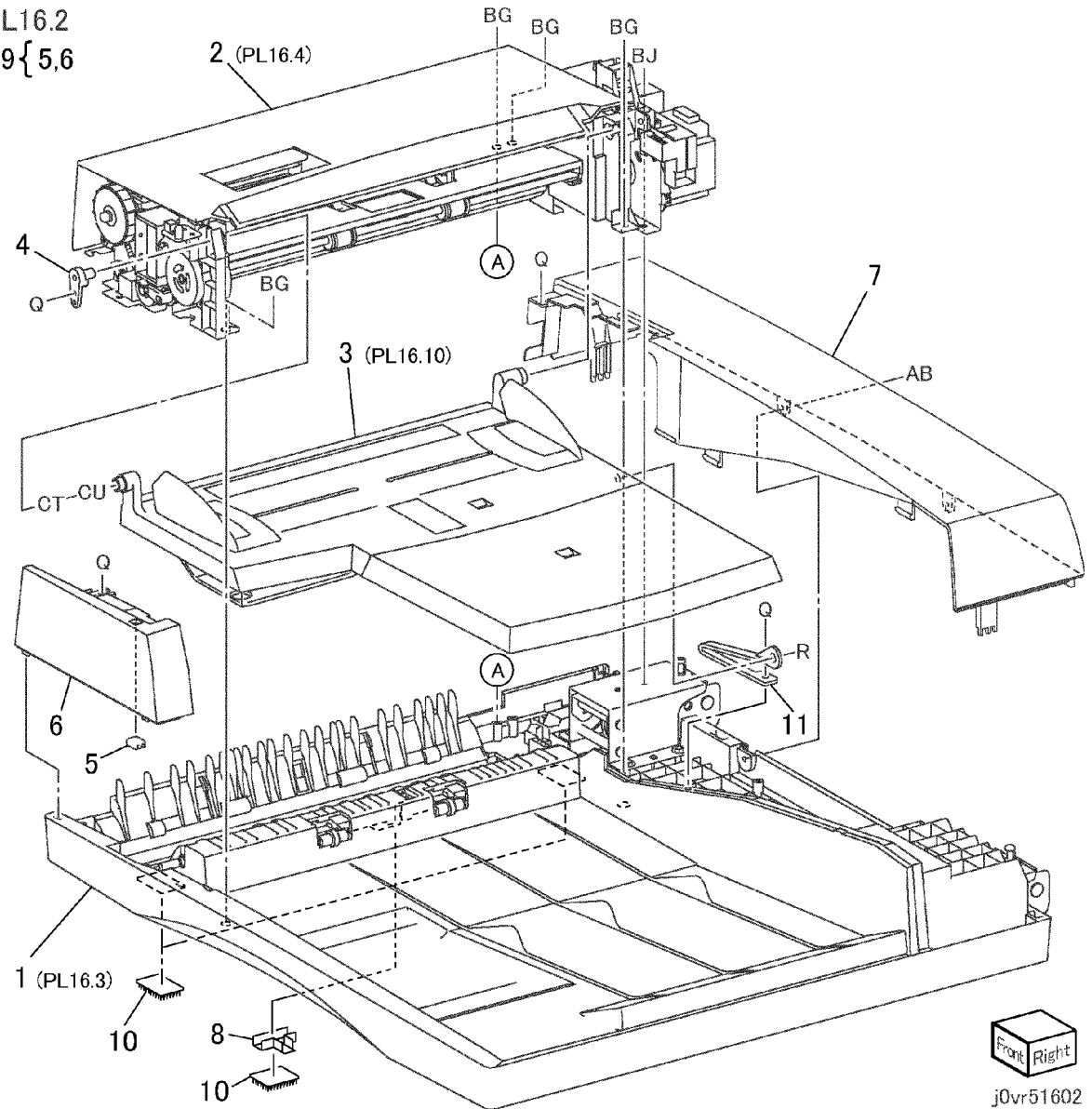


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PL 16.2 DADF Component Cover

Item	Part	Description
1	-	DADF Base Assembly (P/O PL 16.1 Item 3)
2	-	DADF Feeder Assembly (P/O PL 16.1 Item 3) (REP 15.2.2)
3	050K56180	DADF Document Tray (REP 15.2.1)
4	-	Tray Hinge (P/O PL 16.1 Item 3)
5	-	LED Cap (P/O PL 16.2 Item 9)
6	-	DADF Front Cover (P/O PL 16.1 Item 3) (REP 15.2.3)
7	-	DADF Rear Cover (P/O PL 16.1 Item 3) (REP 15.2.4)
8	-	Solenoid Cover (P/O PL 16.1 Item 3)
9	-	DADF Front Cover (P/O PL 16.1 Item 3)
10	-	Fastener Tape (P/O PL 16.1 Item 3)
11	849E38720	Tray Support

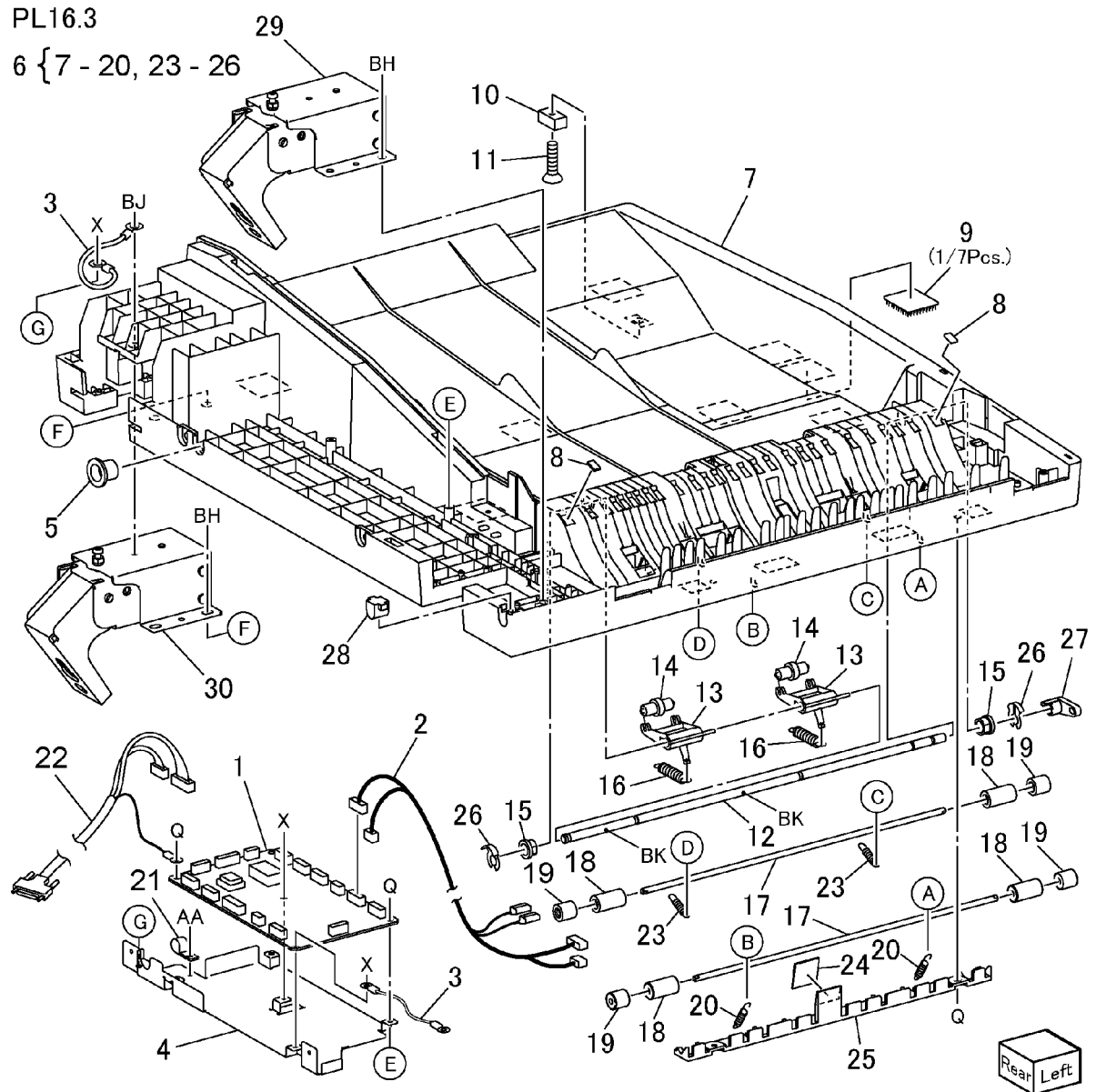
PL16.2
9 { 5,6



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PL 16.3 DADF Base Cover

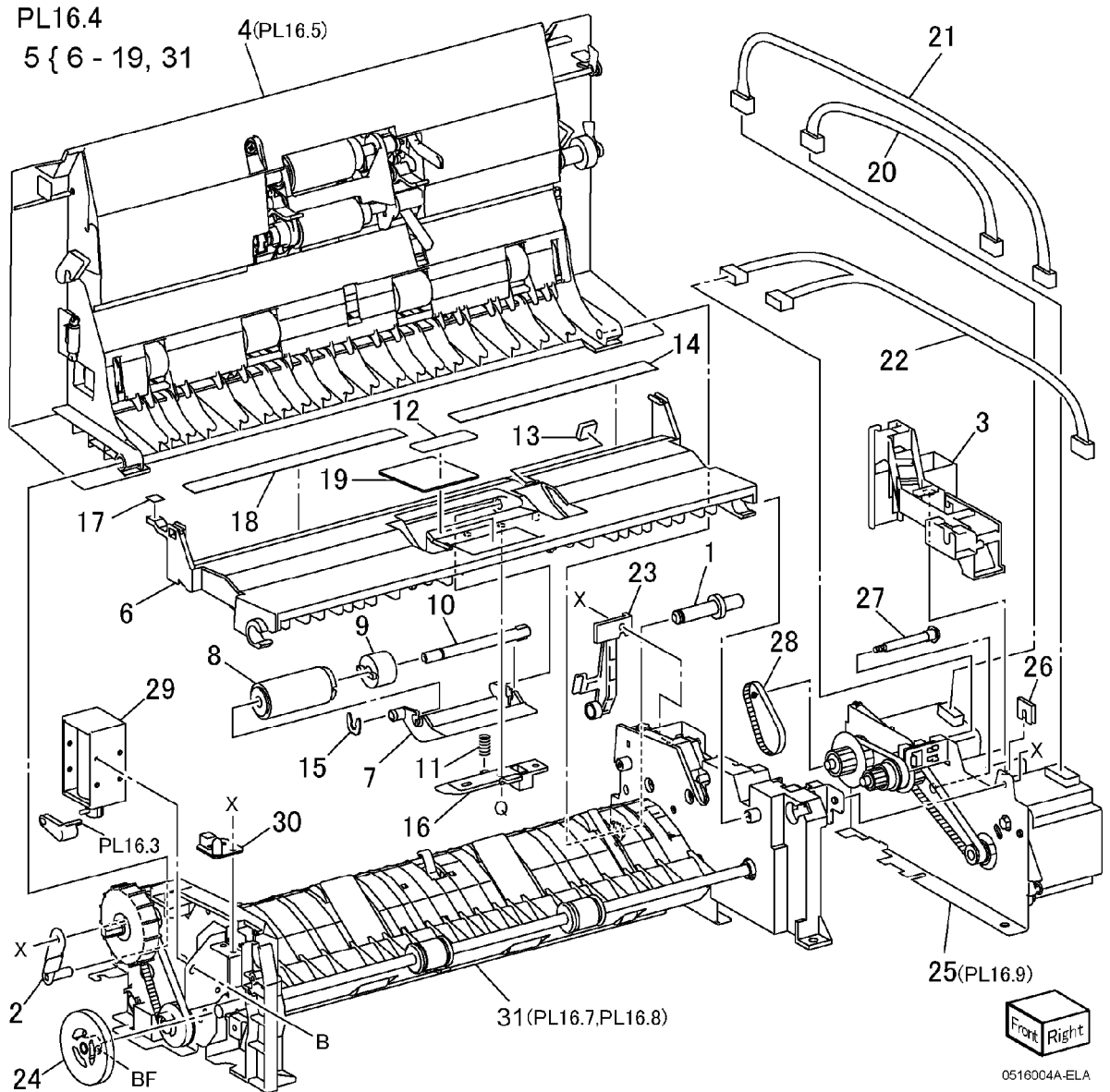
Item	Part	Description
1	960K02756	DADF PWB (REP 15.3.1)
2	962K19793	Harness
3	-	Ground Wire (P/O PL 16.2 Item 1)
4	-	PWB Bracket (P/O PL 16.2 Item 1)
5	-	Open Type Bush (P/O PL 16.2 Item 1)
6	801K22541	Frame Assembly
7	-	DADF Base Frame (P/O PL 16.3 Item 6)
8	-	Gate Pad (P/O PL 16.3 Item 6)
9	-	Tape (P/O PL 16.3 Item 6)
10	-	Magnet (Interlock) (P/O PL 16.3 Item 6)
11	-	Magnet Screw (P/O PL 16.3 Item 6)
12	-	Exit Shaft (P/O PL 16.3 Item 6)
13	-	Exit Holder (P/O PL 16.3 Item 6)
14	-	Pinch Roll (Exit) (P/O PL 16.3 Item 6)
15	-	Bearing (P/O PL 16.3 Item 6)
16	-	Exit Spring (P/O PL 16.3 Item 6)
17	-	Pinch Shaft (P/O PL 16.3 Item 6)
18	-	Registration Pinch Roll (P/O PL 16.3 Item 6)
19	-	Registration Pinch Roll (P/O PL 16.3 Item 6)
20	-	Registration Spring (P/O PL 16.3 Item 6)
21	-	P-Clamp (P/O PL 16.2 Item 1)
22	117E27450	DADF IIT Cable
23	-	Spring (P/O PL 16.3 Item 6)
24	-	Sensor Pad (P/O PL 16.3 Item 6)
25	-	Registration Cover (P/O PL 16.3 Item 6)
26	028E94260	KL-Clip
27	-	Solenoid Lever (P/O PL 16.2 Item 1)
28	-	Rear Cap Cover (P/O PL 16.2 Item 1)
29	036K91551	Left Counter Balance (REP 15.3.2)
30	036K91561	Right Counter Balance (REP 15.3.3)



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PL 16.4 DADF Feeder Component

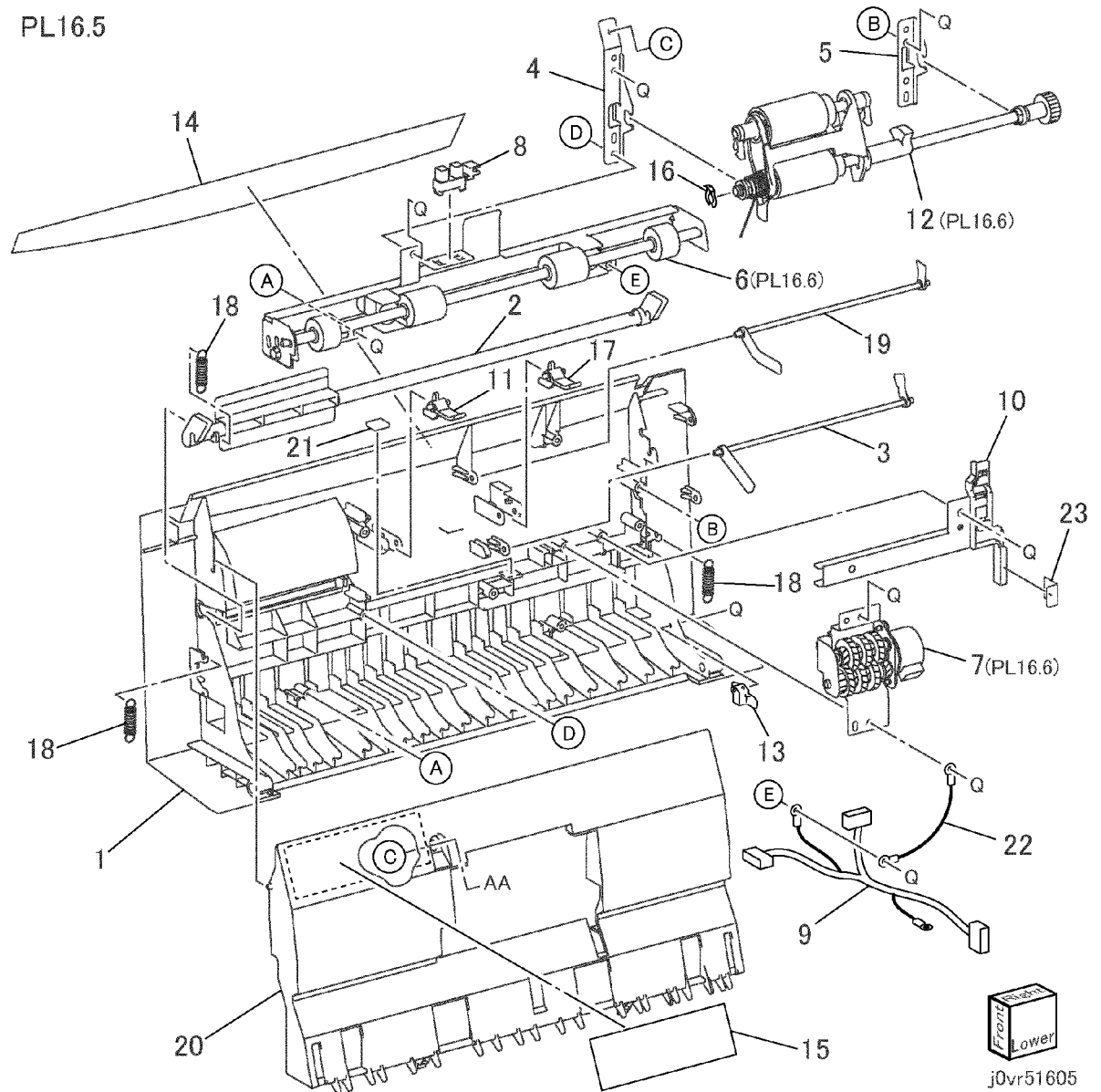
Item	Part	Description
1	-	Hinge Stud (P/O PL 16.2 Item 2)
2	-	Bracket (P/O PL 16.4 Item 4)
3	-	Harness Guide (P/O PL 16.4 Item 4)
4	059K45213	Upper Feed Assembly
5	059K45231	DADF Feeder Assembly
6	-	Retard Chute (P/O PL 16.4 Item 5)
7	-	Retard Housing (P/O PL 16.4 Item 5)
8	059K44920	Retard Roll (REP 15.4.1)
9	019K98770	Brake
10	-	Retard Shaft (P/O PL 16.4 Item 5)
11	-	Retard Spring (P/O PL 16.4 Item 5)
12	-	Pad (P/O PL 16.4 Item 5)
13	019K99070	Actuator Pad
14	-	Seal (P/O PL 16.4 Item 5)
15	-	C-Clip (P/O PL 16.4 Item 5)
16	-	Retard Guide (P/O PL 16.4 Item 5)
17	-	Label (Retard) (P/O PL 16.4 Item 5)
18	-	Front Seal (Not Spared)
19	-	Retard Seal (Not Spared)
20	-	FE Harness (Not Spared)
21	-	Harness (Not Spared)
22	-	Harness (Not Spared)
23	-	Harness Guide (Not Spared)
24	-	Damper Roll (Not Spared)
25	-	Motor Assembly (Not Spared)
26	-	Harness Guide (Not Spared)
27	-	Screw (Not Spared)
28	604K20780	DADF Belt Kit
29	121K31912	Solenoid
30	160K97600	LED PWB
31	-	DADF Feeder (P/O PL 16.4 Item 5)



PL 16.5 Top Cover Component

Item	Part	Description
1	-	Cover (P/O PL 16.4 Item 4) (REP 15.4.2)
2	-	Handle Lever (P/O PL 16.4 Item 4)
3	-	Actuator (Feed Out) (P/O PL 16.4 Item 4)
4	-	Feeder Bracket (Front) (P/O PL 16.4 Item 4)
5	-	Feeder Bracket (Rear) (P/O PL 16.4 Item 4)
6	059K31291	Takeaway Pinch Roll
7	127K38411	DADF Nudger Motor
8	-	DADF Nudger Sensor (P/O PL 16.4 Item 4)
9	-	Nudger Harness (P/O PL 16.4 Item 4)
10	-	Harness Guide (P/O PL 16.4 Item 4)
11	-	Front Guide-Set (P/O PL 16.4 Item 4)
12	059K45220	Feeder Assembly
13	-	Harness Guide (P/O PL 16.4 Item 4)
14	-	Label (Size) (P/O PL 16.4 Item 4)
15	-	Label (Jam Clear) (P/O PL 16.4 Item 4)
16	028E94260	KL-Clip
17	-	Rear Guide Set (P/O PL 16.4 Item 4)
18	-	Exit Spring (P/O PL 16.4 Item 4)
19	-	Actuator (Set) (P/O PL 16.4 Item 4)
20	-	Chute (P/O PL 16.4 Item 4)
21	-	Actuator Pad (P/O PL 16.4 Item 4)
22	-	Ground Wire (P/O PL 16.4 Item 4)
23	-	Harness Seal (P/O PL 16.4 Item 4)

PL16.5

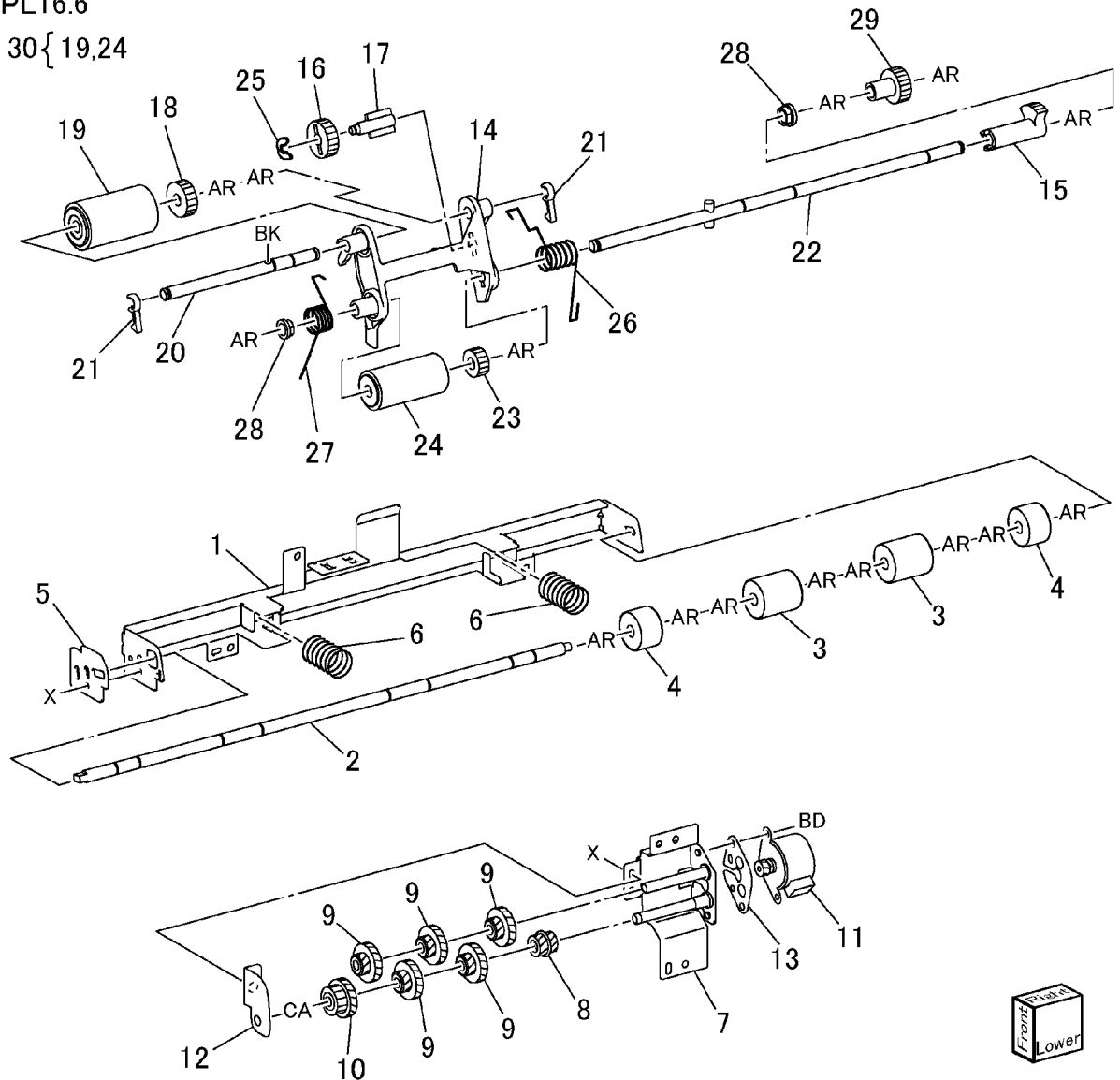


PL 16.6 Takeaway Pinch Roll, Nudger Motor, Nudger/Feed Roll

Item	Part	Description
1	-	Bracket (P/O PL 16.5 Item 6)
2	-	Shaft (Takeaway Pinch Roll) (P/O PL 16.5 Item 6)
3	-	Roll (P/O PL 16.5 Item 6)
4	-	Roll (P/O PL 16.5 Item 6)
5	-	Bracket (P/O PL 16.5 Item 6)
6	-	Spring (P/O PL 16.5 Item 6)
7	-	Bracket (P/O PL 16.5 Item 7)
8	-	Gear (18T/19T) (P/O PL 16.5 Item 7)
9	-	Gear (36T/19T) (P/O PL 16.5 Item 7)
10	-	Gear (36T/16T) (P/O PL 16.5 Item 7)
11	-	Lift Motor (P/O PL 16.5 Item 7)
12	-	Lift Bracket (P/O PL 16.5 Item 7)
13	-	Motor Bracket (P/O PL 16.5 Item 7)
14	-	Nudger Housing (P/O PL 16.5 Item 12)
15	-	Gear (28T) (P/O PL 16.5 Item 12)
16	-	Idler Gear (36T) (P/O PL 16.5 Item 12)
17	-	Nudger Shaft (P/O PL 16.5 Item 12)
18	-	Nudger Gear (34T) (P/O PL 16.5 Item 12)
19	-	Nudger Roll (P/O PL 16.6 Item 30) (REP 15.6.1)
20	-	Nudger Shaft (P/O PL 16.5 Item 12)
21	-	Set Stopper (P/O PL 16.5 Item 12)
22	-	Feed Shaft (P/O PL 16.5 Item 12)
23	807E00550	Feed Gear (26T)
24	-	Feed Roll (P/O PL 16.6 Item 30) (REP 15.6.1)
25	-	C-Clip (P/O PL 16.5 Item 12)
26	-	Rear Nudger/Feed Spring (P/O PL 16.5 Item 12)
27	-	Front Nudger/Feed Spring (P/O PL 16.5 Item 12)
28	-	Bearing (P/O PL 16.5 Item 12)
29	007K88751	Feed Gear (20T)
30	604K20760	DADF Roll Kit (Feeder/Nudger/Retard)

PL16.6

30 { 19,24



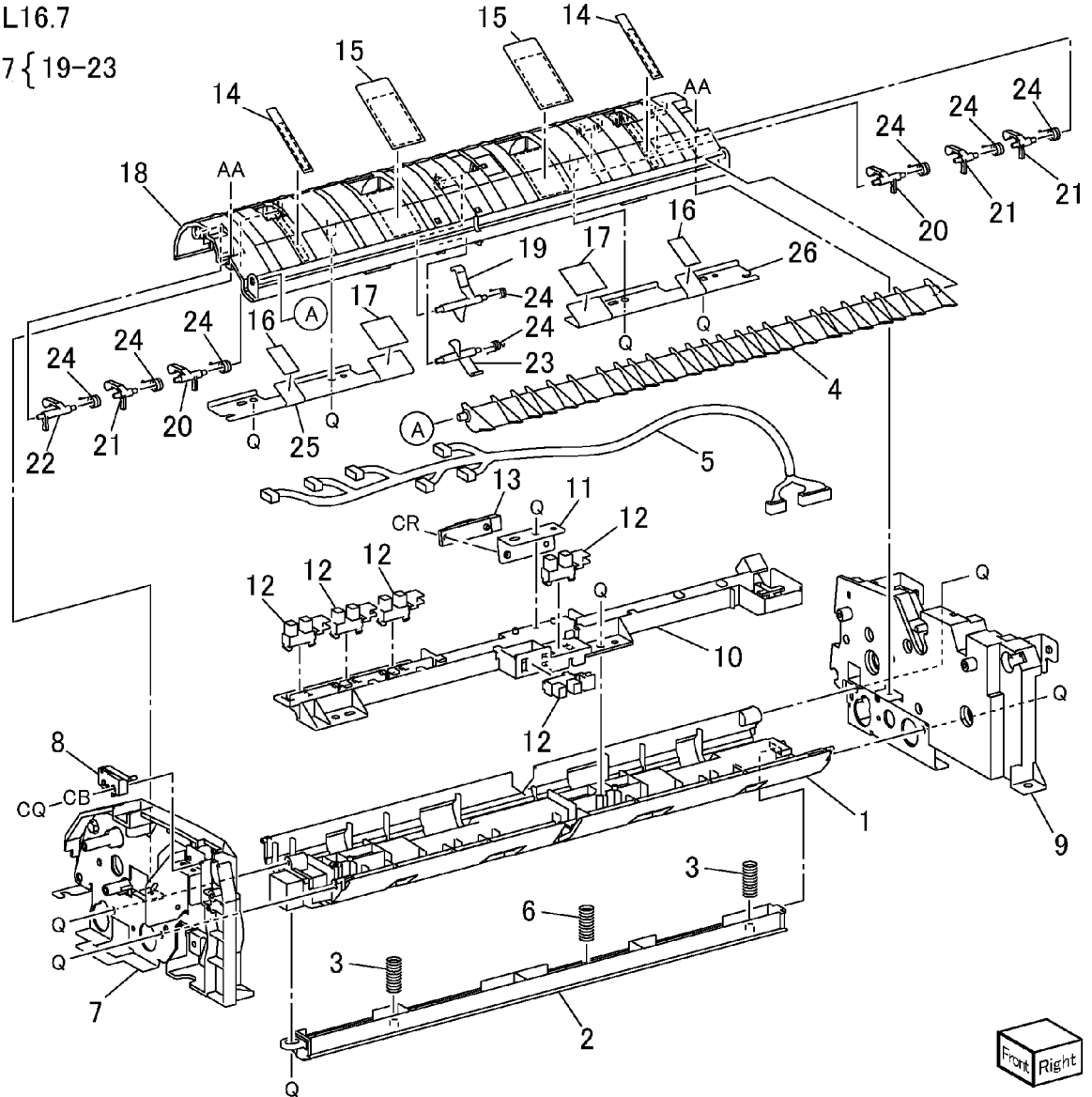
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PL 16.7 DADF Feeder-Chute

Item	Part	Description
1	-	Lower Chute (P/O PL 16.4 Item 5)
2	-	Chute (Scan Position) (P/O PL 16.4 Item 5)
3	-	Spring (P/O PL 16.4 Item 5)
4	-	Invert Guide (P/O PL 16.4 Item 5)
5	962K19722	FE Harness
6	-	CVT Spring (P/O PL 16.4 Item 5)
7	-	Feed Frame (Front) (P/O PL 16.4 Item 5)
8	110K11981	DADF Interlock Switch
9	-	Feed Frame (Rear) (P/O PL 16.4 Item 5)
10	-	Guide Sensor (P/O PL 16.4 Item 5)
11	-	Registration Sensor Bracket (P/O PL 16.4 Item 5)
12	930W00111	DADF APS 1 Sensor, DADF APS 2 Sensor, DADF APS 3 Sensor, DADF Preregistration Sensor, DADF Invert Sensor
13	930W00211	Registration Sensor
14	-	Seal (P/O PL 16.4 Item 5)
15	-	Seal (P/O PL 16.4 Item 5)
16	-	Eliminator (P/O PL 16.4 Item 5)
17	-	Eliminator (P/O PL 16.4 Item 5)
18	-	Feeder Chute (P/O PL 16.4 Item 5)
19	-	Actuator (Preregistration) (P/O PL 16.7 Item 27)
20	-	Actuator (APS 1) (P/O PL 16.7 Item 27)
21	-	Actuator (APS 2) (P/O PL 16.7 Item 27)
22	-	Actuator (APS3) (P/O PL 16.7 Item 27)
23	-	Actuator (Invert) (P/O PL 16.7 Item 27)
24	-	Torsion Spring (P/O PL 16.4 Item 5)
25	-	Front Chute Bracket (P/O PL 16.4 Item 5)
26	-	Chute Bracket (Rear) (P/O PL 16.4 Item 5)
27	604K20770	DADF Actuator Kit

PL16.7

27 { 19-23

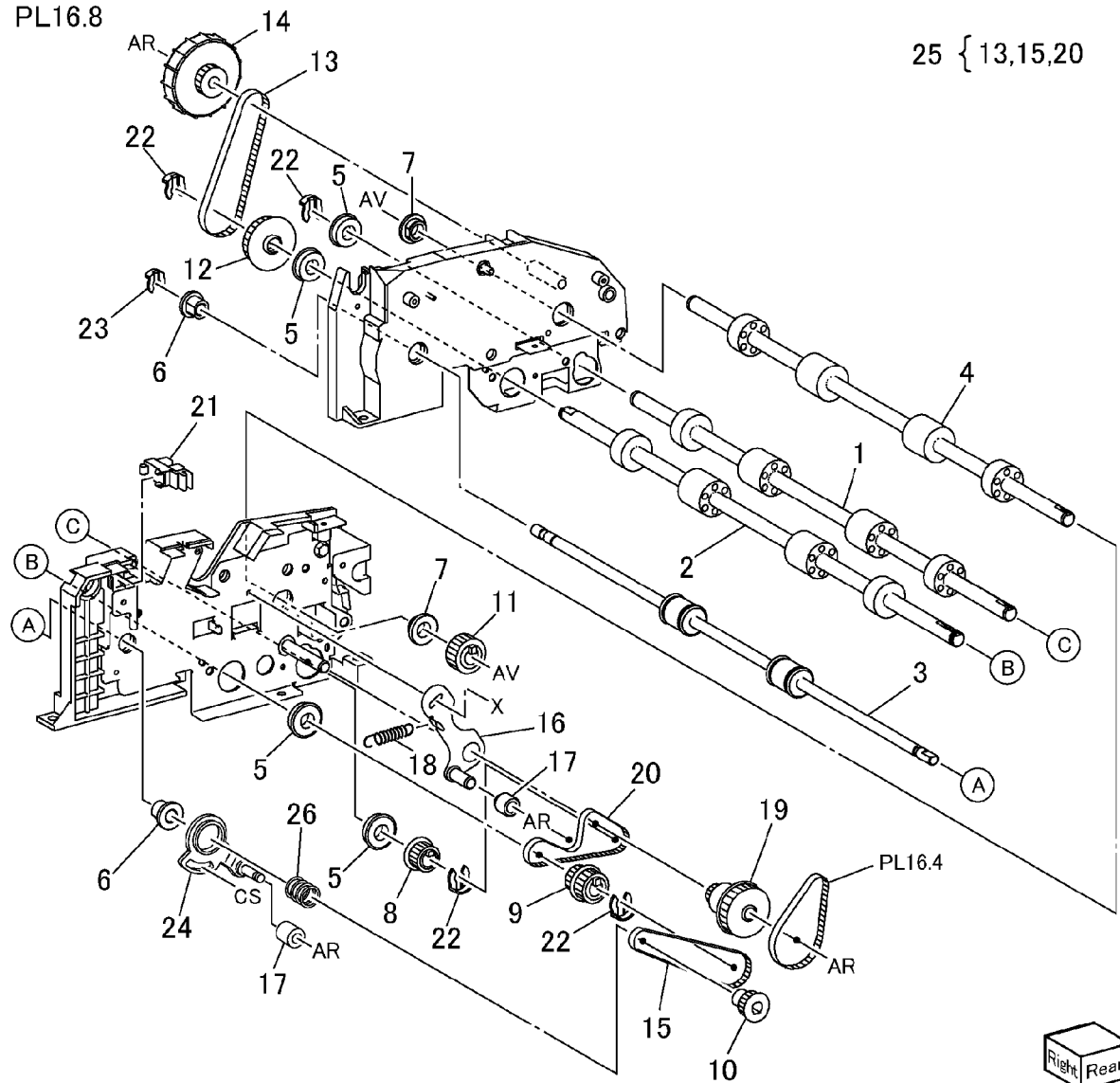


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PL 16.8 DADF Feeder-Roll

Item	Part	Description
1	-	Registration Roll (P/O PL 16.4 Item 5) (REP 15.8.1)
2	-	Out Roll (P/O PL 16.4 Item 5)
3	-	Exit Roll (P/O PL 16.4 Item 5)
4	-	Takeaway Roll (P/O PL 16.4 Item 5)
5	-	Ball Bearing (P/O PL 16.4 Item 5)
6	-	Exit Bearing (P/O PL 16.4 Item 5)
7	-	Bearing (P/O PL 16.4 Item 5)
8	-	Pulley (Registration) (P/O PL 16.4 Item 5)
9	-	Pulley (Out) (P/O PL 16.4 Item 5)
10	-	Pulley (Exit) (P/O PL 16.4 Item 5)
11	-	Gear (Takeaway) (P/O PL 16.4 Item 5)
12	-	Flange Pulley (P/O PL 16.4 Item 5)
13	-	Belt (P/O PL 16.4 Item 5)
14	-	Handle Pulley (P/O PL 16.4 Item 5)
15	-	Belt (P/O PL 16.4 Item 5)
16	-	Tension Bracket (P/O PL 16.4 Item 5)
17	-	Tension Roller (P/O PL 16.4 Item 5)
18	809E50762	Tension Spring
19	-	Idler Pulley (P/O PL 16.4 Item 5)
20	023E25640	Belt
21	930W00111	DADF Document Set Sensor
22	-	KL-Clip (P/O PL 16.4 Item 5)
23	028E94260	KL-Clip
24	-	Tension Bracket (P/O PL 16.4 Item 5)
25	604K20780	DADF Belt Kit
26	-	Exit Spring (P/O PL 16.4 Item 5)

PL16.8



25 {13,15,20}

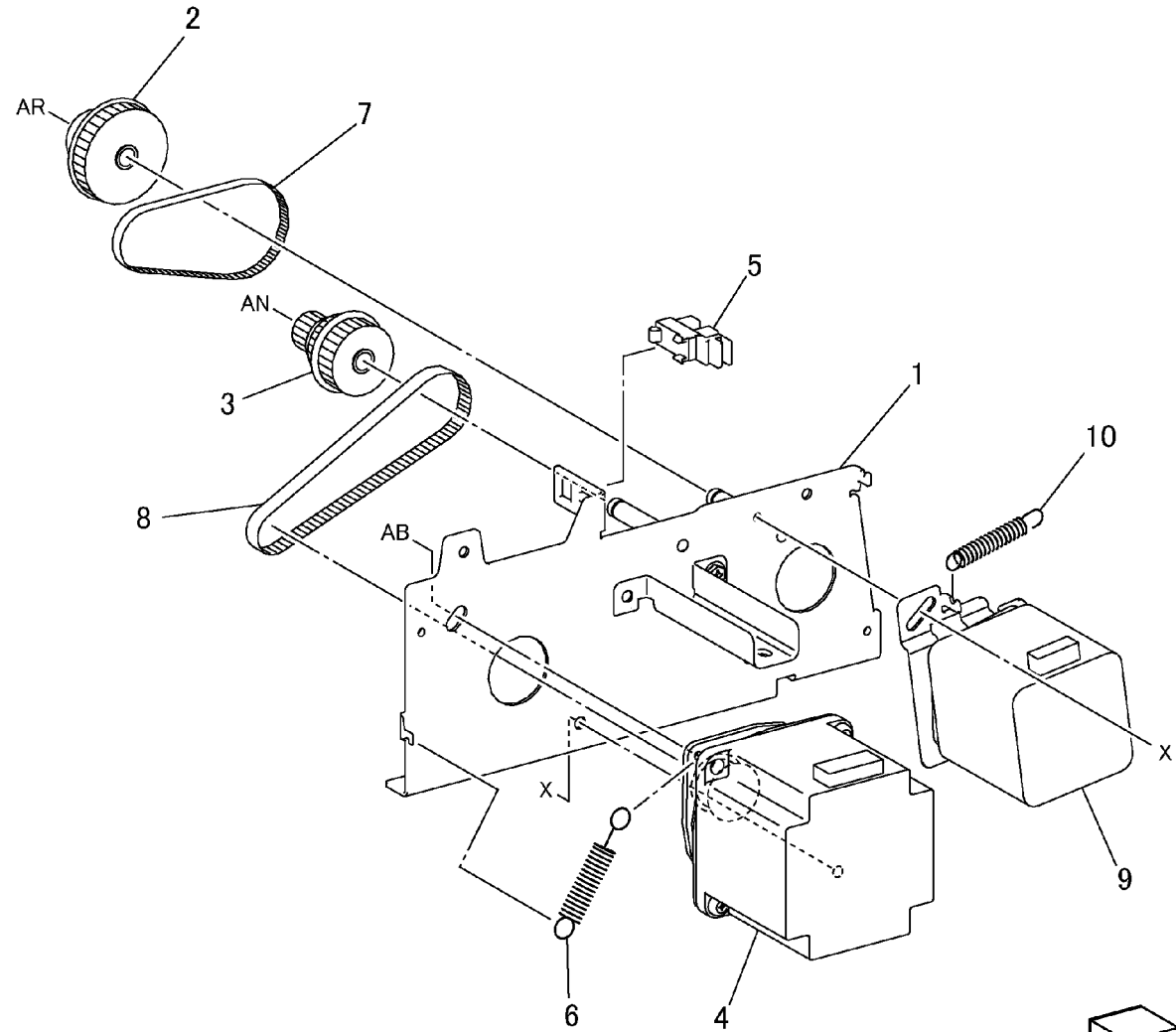


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PL 16.9 Motor Unit Assembly

Item	Part	Description
1	–	Motor Bracket (P/O PL 16.8 Item 15)
2	–	Gear Pulley (20/50) (P/O PL 16.8 Item 15)
3	–	Gear Pulley (14/32/37) (P/O PL 16.8 Item 15)
4	127K38440	DADF Feed Motor
5	930W00111	DADF Feed Out Sensor
6	–	Spring (P/O PL 15.8 Item 15)
7	423W08055	Takeaway Belt (4mm)
8	423W29955	Feed Belt (6mm)
9	127K38460	DADF Registration Motor
10	–	Spring (Not Spared)

PL16.9

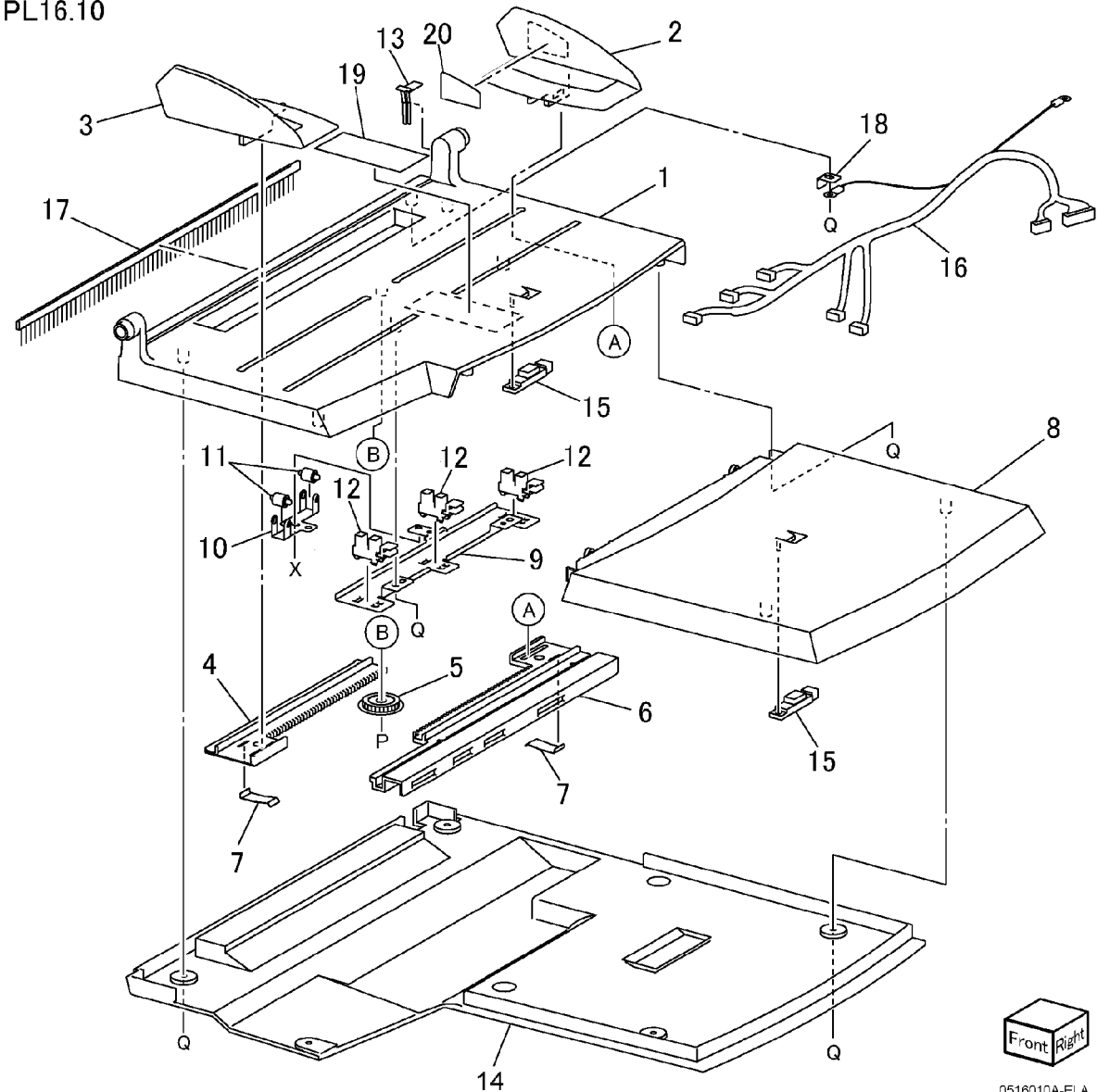


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PL 16.10 DADF Document Tray

Item	Part	Description
1	-	Hinge Tray (P/O PL 16.2 Item 3)
2	-	Side Guide (Rear) (P/O PL 16.2 Item 3)
3	-	Side Guide (Front) (P/O PL 16.2 Item 3)
4	-	Rack Gear (P/O PL 16.2 Item 3)
5	-	Pinion Gear (P/O PL 16.2 Item 3)
6	120E22370	Rack Gear and Actuator
7	809E51860	Rack Spring
8	-	Tray Upper Cover (P/O PL 16.2 Item 3)
9	-	Sensor Bracket (P/O PL 16.2 Item 3)
10	-	Tray Spring (P/O PL 16.2 Item 3)
11	-	Roller (P/O PL 16.2 Item 3)
12	930W00111	DADF Tray Set Guide Sensor 1, DADF Tray Set Guide Sensor 2, DADF Tray Set Guide Sensor 3
13	-	Harness Guide (P/O PL 16.2 Item 3)
14	-	Tray Lower Cover (P/O PL 16.2 Item 3)
15	130E89950	DADF Tray Size 1 Sensor, DADF Tray Size 2 Sensor (P/O PL 16.2 Item 3)
16	962K19712	Tray Wire Harness
17	105E06910	Eliminator
18	-	Earth Bracket (P/O PL 16.2 Item 3)
19	-	Label (Installation) (P/O PL 16.2 Item 3)
20	-	Label (Max) (P/O PL 16.2 Item 3)

PL16.10

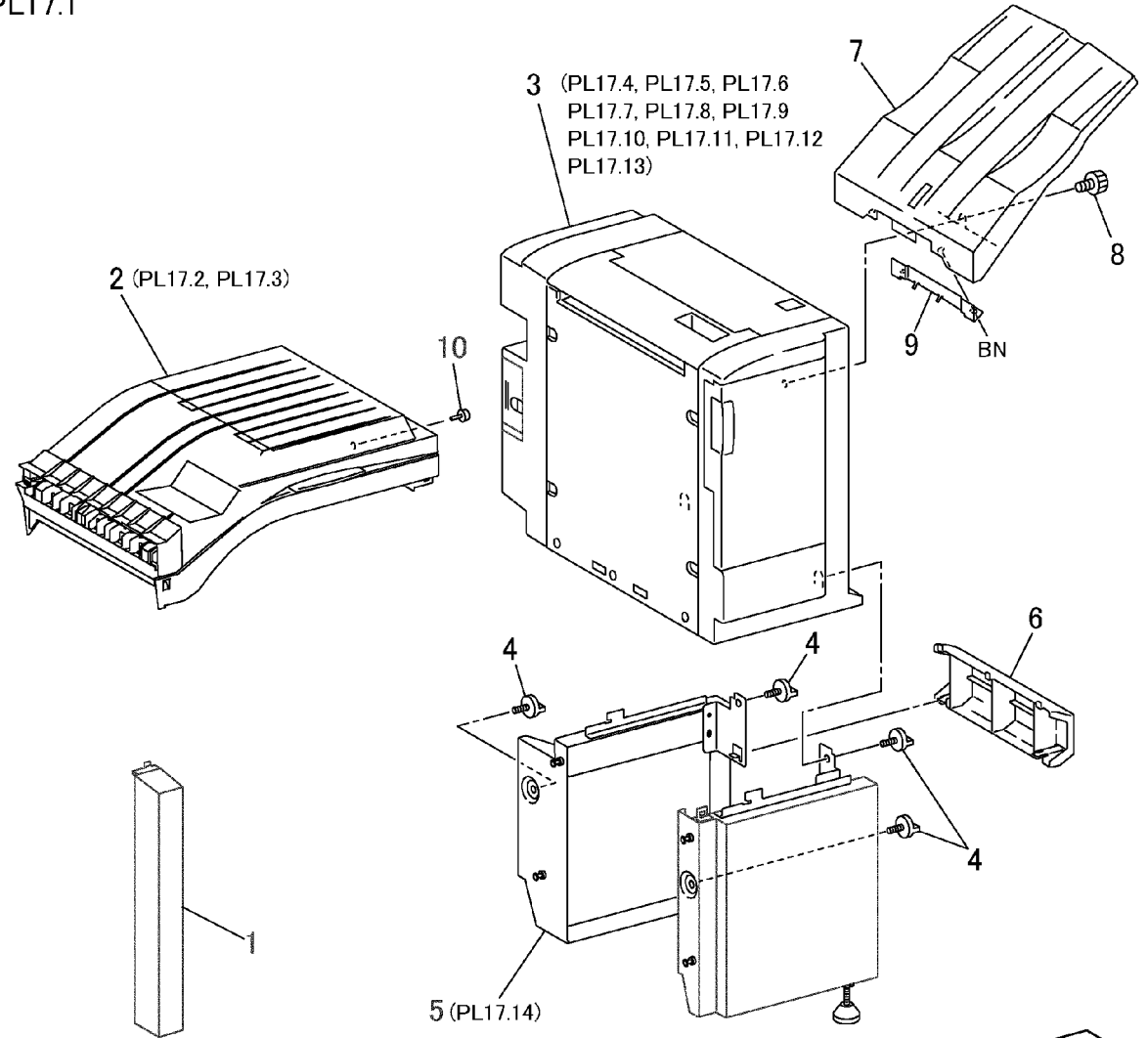


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PL 17.1 Finisher Unit

Item	Part	Description
1	-	Cover (Not Spared)
2	022K73591	H-Transport Assembly (REP 16.1.1)
3	-	Finisher Assembly (Not Spared) (REP 16.1.2)
4	-	Finisher Knob Kit (Not Spared)
5	-	Rack Assembly (Not Spared)
6	-	Right Cover (Not Spared)
7	050E19620	Stacker Tray
8	-	Screw (Not Spared)
9	-	Bracket (Not Spared)
10	-	Screw (Not Spared)

PL17.1

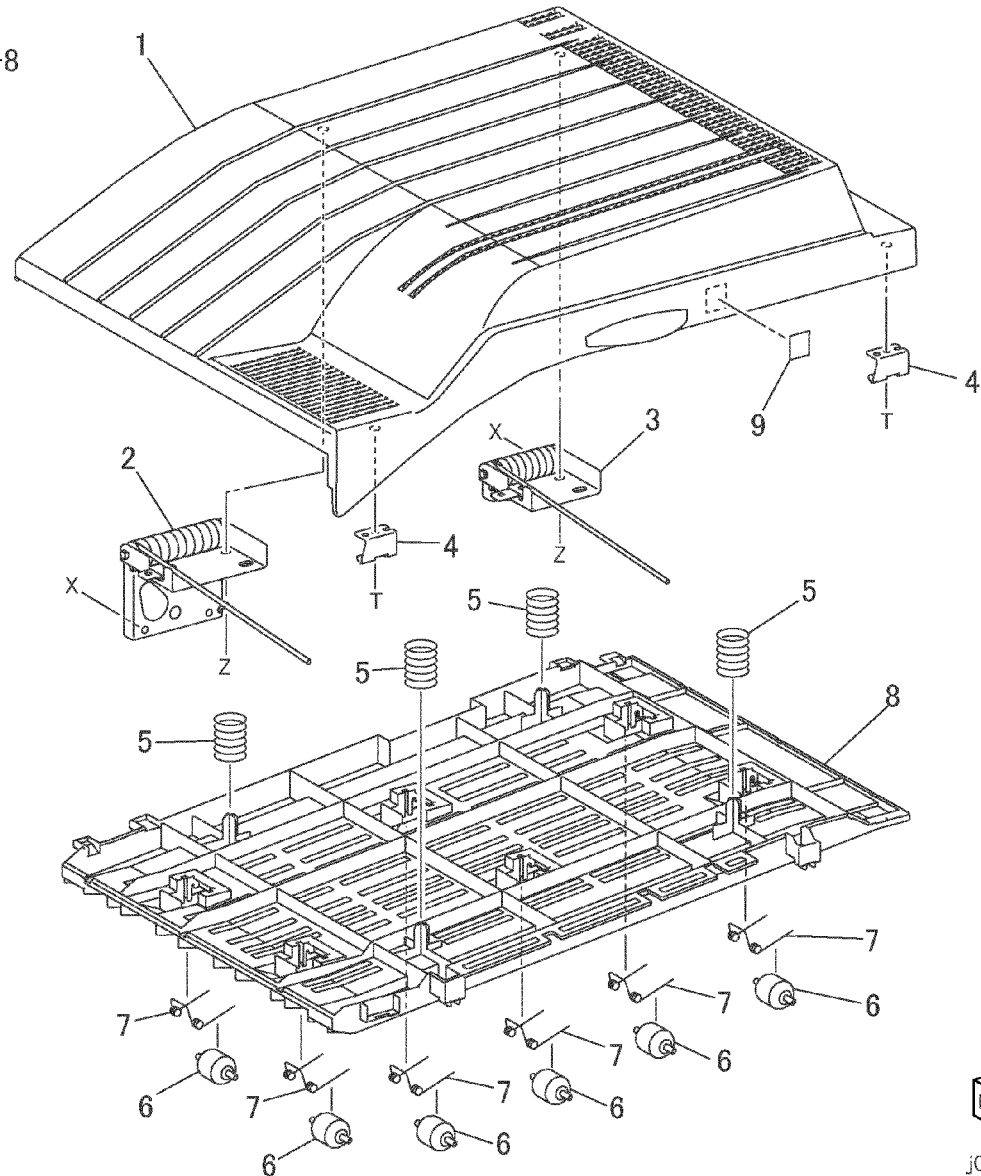


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PL 17.2 H-Transport Assembly (1 of 2)

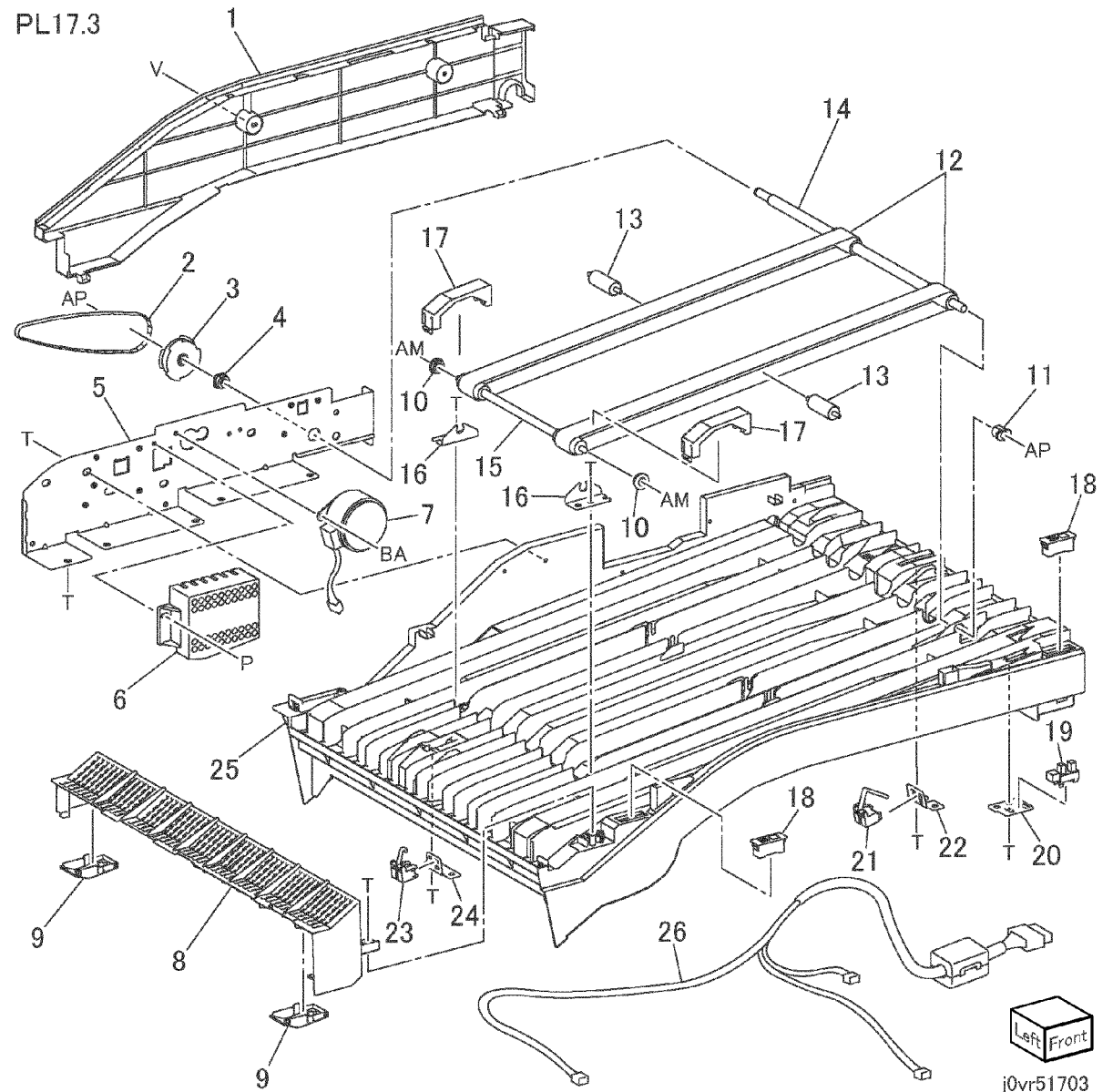
Item	Part	Description
1	-	Top Door (P/O PL 17.1 Item 2)
2	-	Hinge Assembly (P/O PL 17.1 Item 2)
3	-	Hinge Assembly (P/O PL 17.1 Item 2)
4	-	Bracket (P/O PL 17.1 Item 2)
5	-	Spring (P/O PL 17.1 Item 2)
6	-	Pinch Roll (P/O PL 17.2 Item 10)
7	-	Spring (P/O PL 17.2 Item 10)
8	-	Upper Chute (P/O PL 17.2 Item 10)
9	-	Label (P/O PL 17.1 Item 2)
10	-	Upper Chute Assembly (Not Spared)

PL17.2
10 { 6-8



PL 17.3 H-Transport Assembly (2 of 2)

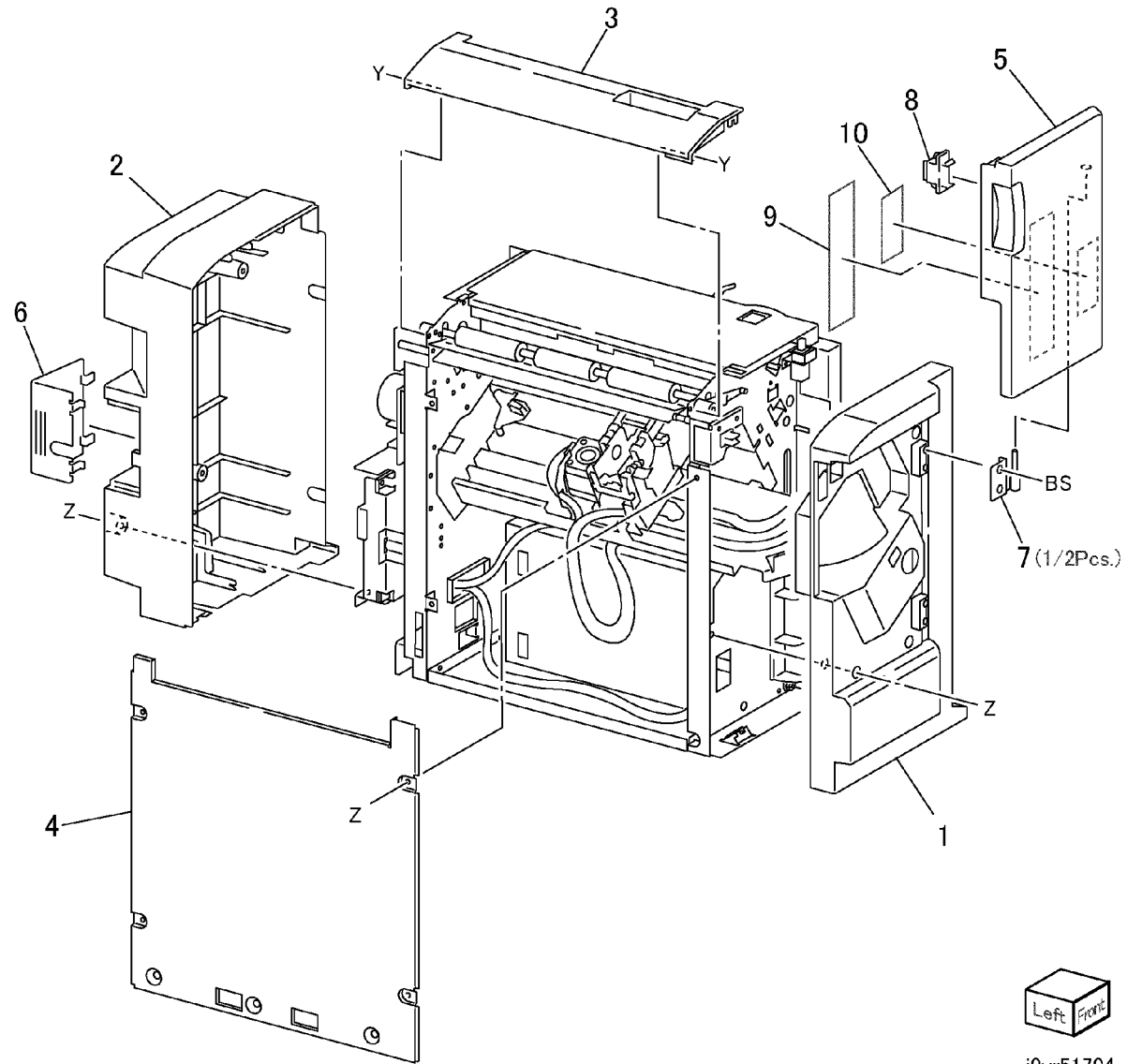
Item	Part	Description
1	-	Rear Cover (P/O PL 17.1 Item 2)
2	-	Belt (P/O PL 17.1 Item 2)
3	-	Pulley (P/O PL 17.1 Item 2)
4	-	Bearing (P/O PL 17.1 Item 2)
5	-	Bracket (P/O PL 17.1 Item 2)
6	-	Cover (P/O PL 17.1 Item 2)
7	127K39900	H-Transport Motor
8	-	Top Cover (P/O PL 17.1 Item 2)
9	-	Paper Guide (P/O PL 17.1 Item 2)
10	-	Bearing (P/O PL 17.1 Item 2)
11	-	Bearing (P/O PL 17.1 Item 2)
12	-	Belt (P/O PL 17.1 Item 2) (REP 16.3.1)
13	-	Roll (P/O PL 17.1 Item 2)
14	-	Shaft Assembly (Right) (P/O PL 17.1 Item 2)
15	-	Shaft Assembly (P/O PL 17.1 Item 2)
16	-	Bracket (P/O PL 17.1 Item 2)
17	-	Cover (P/O PL 17.1 Item 2)
18	-	Magnet (P/O PL 17.1 Item 2)
19	130K88780	H-Transport Interlock Sensor
20	-	Bracket (P/O PL 17.1 Item 2)
21	130K63280	H-Transport Exit sensor
22	-	Bracket (P/O PL 17.1 Item 2)
23	130K88790	H-Transport Entrance Sensor
24	-	Bracket (P/O PL 17.1 Item 2)
25	-	Lower Chute (P/O PL 17.1 Item 2)
26	962K24360	Wire Harness



PL 17.4 Cover

Item	Part	Description
1	802E28560	Front Cover (REP 16.4.1)
2	-	Rear Cover (Not Spared) (REP 16.4.2)
3	-	Top Cover (Not Spared)
4	-	Left Cover (Not Spared)
5	802E28550	Front Door
6	-	Left Panel (Not Spared)
7	-	Hinge (Not Spared)
8	-	Magnet (Not Spared)
9	-	Label (Not Spared)
10	-	Label (Not Spared)

PL17.4



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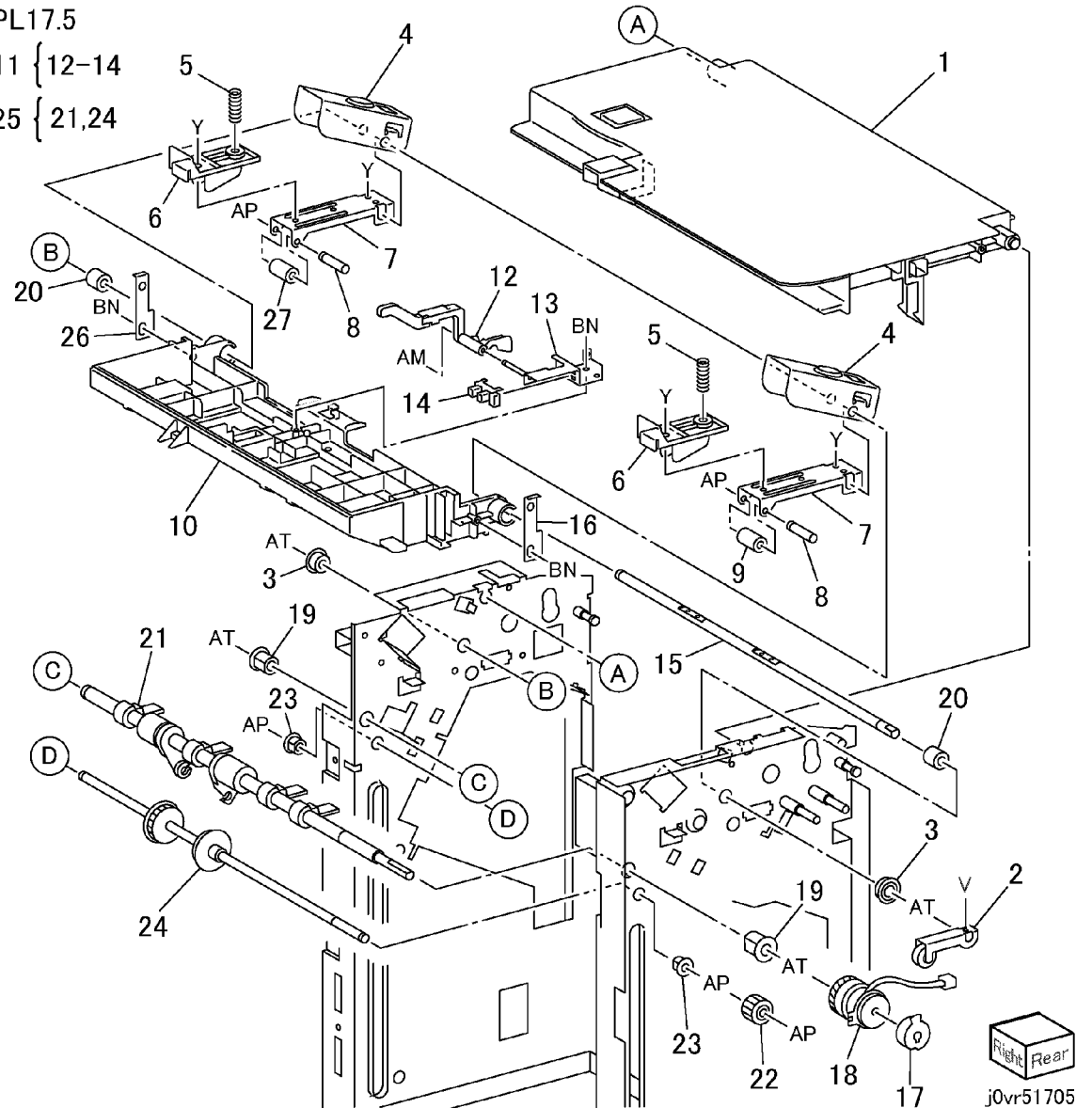
PL 17.5 Top Open Cover and Eject Roll

Item	Part	Description
1	802K28571	Top Open Cover Assembly
2	-	Arm Assembly (Not Spared)
3	-	Bearing (Not Spared)
4	-	Bracket (Not Spared)
5	-	Spring (Not Spared)
6	-	Support (Not Spared)
7	-	Bracket (Not Spared)
8	-	Shaft (Not Spared)
9	022K61480	Eject Pinch Roll
10	-	Eject Chute (Not Spared)
11	130K61920	Stack Height Sensor Assembly (REP 16.5.1)
12	-	Actuator (P/O PL 17.5 Item 11)
13	-	Bracket (P/O PL 17.5 Item 11)
14	-	Stack Height Sensor (P/O PL 17.5 Item 11)
15	-	Shaft (Not Spared)
16	-	Link (Not Spared)
17	-	Actuator (Not Spared)
18	121K34190	Set Clamp Clutch
19	-	Bearing (Not Spared)
20	-	Collar (Not Spared)
21	-	Eject Roll (P/O PL 17.5 Item 25) (REP 16.5.2)
22	007K86910	Gear (20T)
23	-	Bearing (Not Spared)
24	-	Eject Shaft (P/O PL 17.5 Item 25)
25	006K23710	Eject Roll Assembly
26	-	Link (Not Spared)
27	022K67800	Eject Pinch Roll (Front)

PL17.5

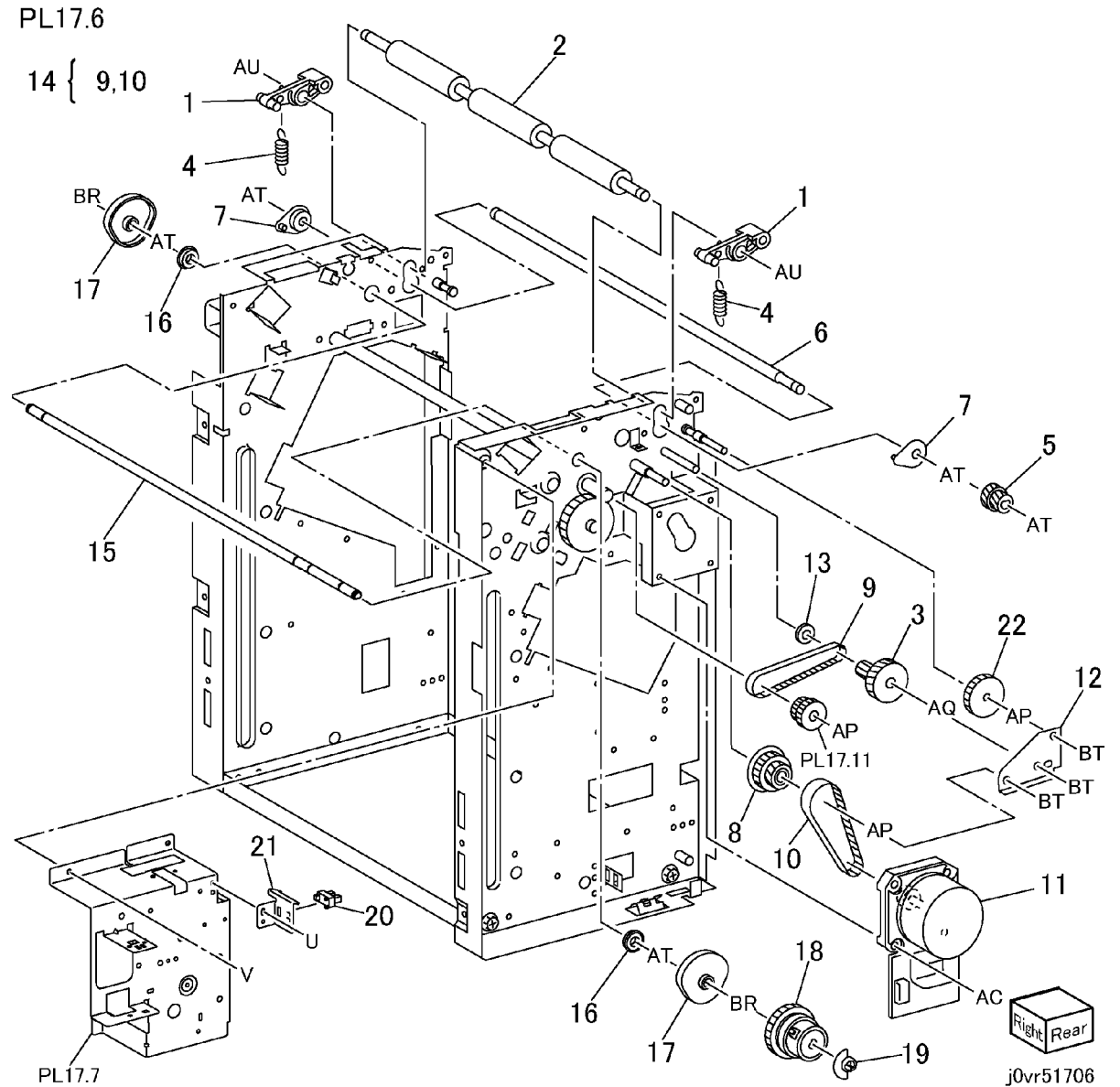
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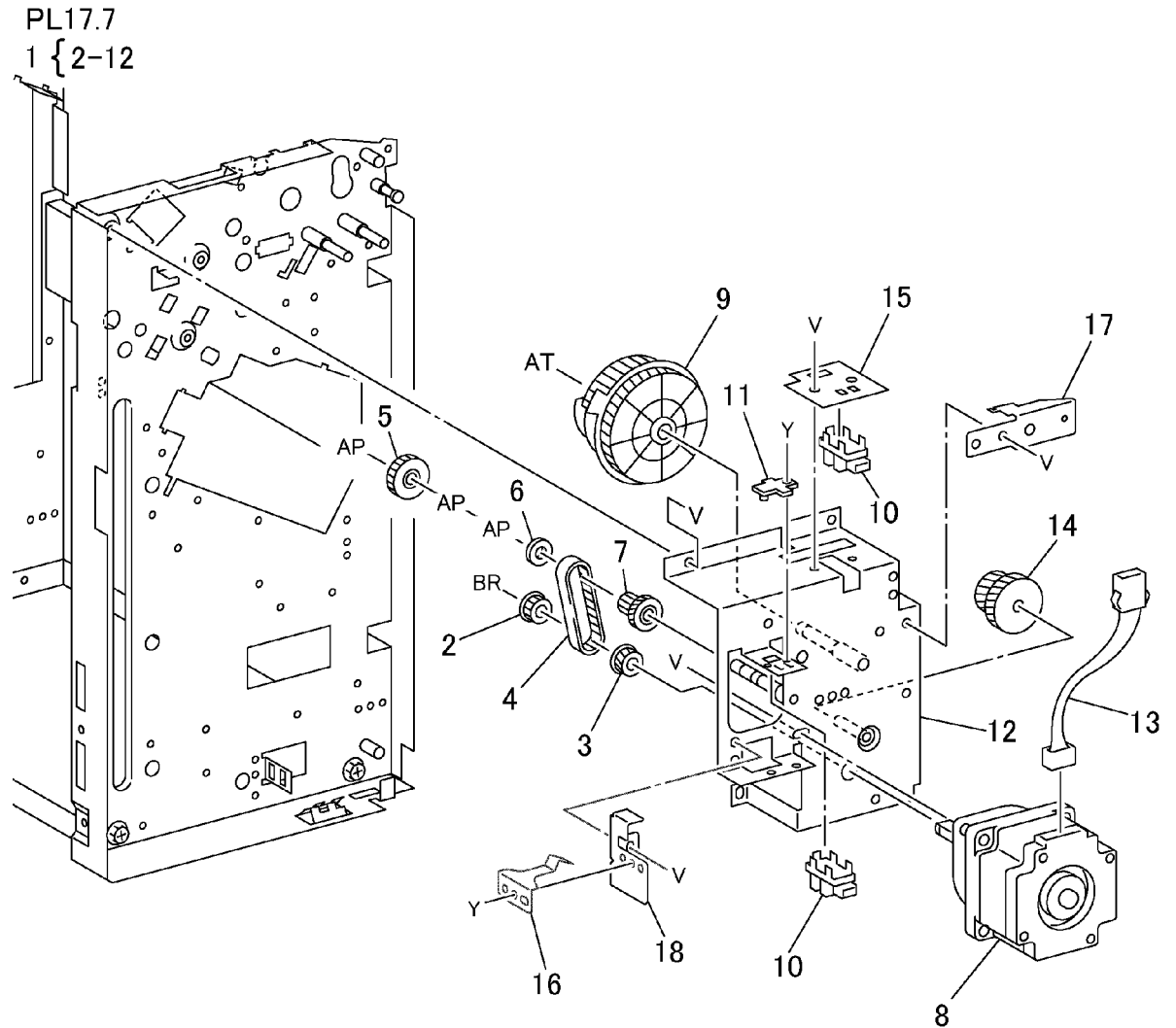
PL 17.6 Paper Transport (1 of 2)

Item	Part	Description
1	-	Arm (Not Spared)
2	022K67450	Decurler Roll Assembly (REP 16.6.1)
3	-	Gear (40/20T) (Not Spared)
4	-	Spring (Not Spared)
5	-	Gear (18/21T) (Not Spared)
6	-	Shaft (Not Spared)
7	-	Bearing (Not Spared)
8	-	Gear (23/52T) (Not Spared)
9	-	Belt (P/O PL 17.6 Item 14)
10	-	Belt (P/O PL 17.6 Item 14)
11	127K45830	Finisher Drive Motor (REP 16.6.2)
12	-	Bracket (Not Spared)
13	-	Collar (Not Spared)
14	604K20490	Finisher Belt Kit
15	-	Decurler Shaft Cam (Not Spared)
16	-	Bearing (Not Spared)
17	-	Decurler Cam (Not Spared)
18	-	Decurler Clutch (Not Spared)
19	-	Actuator (Not Spared)
20	-	Decurler Sensor (Not Spared)
21	-	Bracket (Not Spared)
22	-	Gear (40T) (Not Spared)



PL 17.7 Paper Transport (2 of 2)

Item	Part	Description
1	068K49000	Cam Bracket Assembly
2	020E34970	Pulley
3	-	Gear (15T) (P/O PL 17.7 Item 1)
4	-	Paper Eject Belt (P/O PL 17.6 Item 14) (REP 16.7.1)
5	-	Gear (30T) (P/O PL 17.7 Item 1)
6	-	Collar (P/O PL 17.7 Item 1)
7	-	Gear Pulley (P/O PL 17.7 Item 1)
8	127K39930	Eject Motor
9	007E67800	Cam Gear
10	130K88780	Set Clamp Home Sensor, Eject Clamp Home Sensor
11	-	Stopper (P/O PL 17.7 Item 1)
12	-	Bracket (P/O PL 17.7 Item 1)
13	962K45980	Wire Harness
14	-	Gear (42/27T) (Not Spared)
15	-	Plate (Not Spared)
16	-	Spring (Not Spared)
17	-	Bracket (Not Spared)
18	-	Bracket (Not Spared)



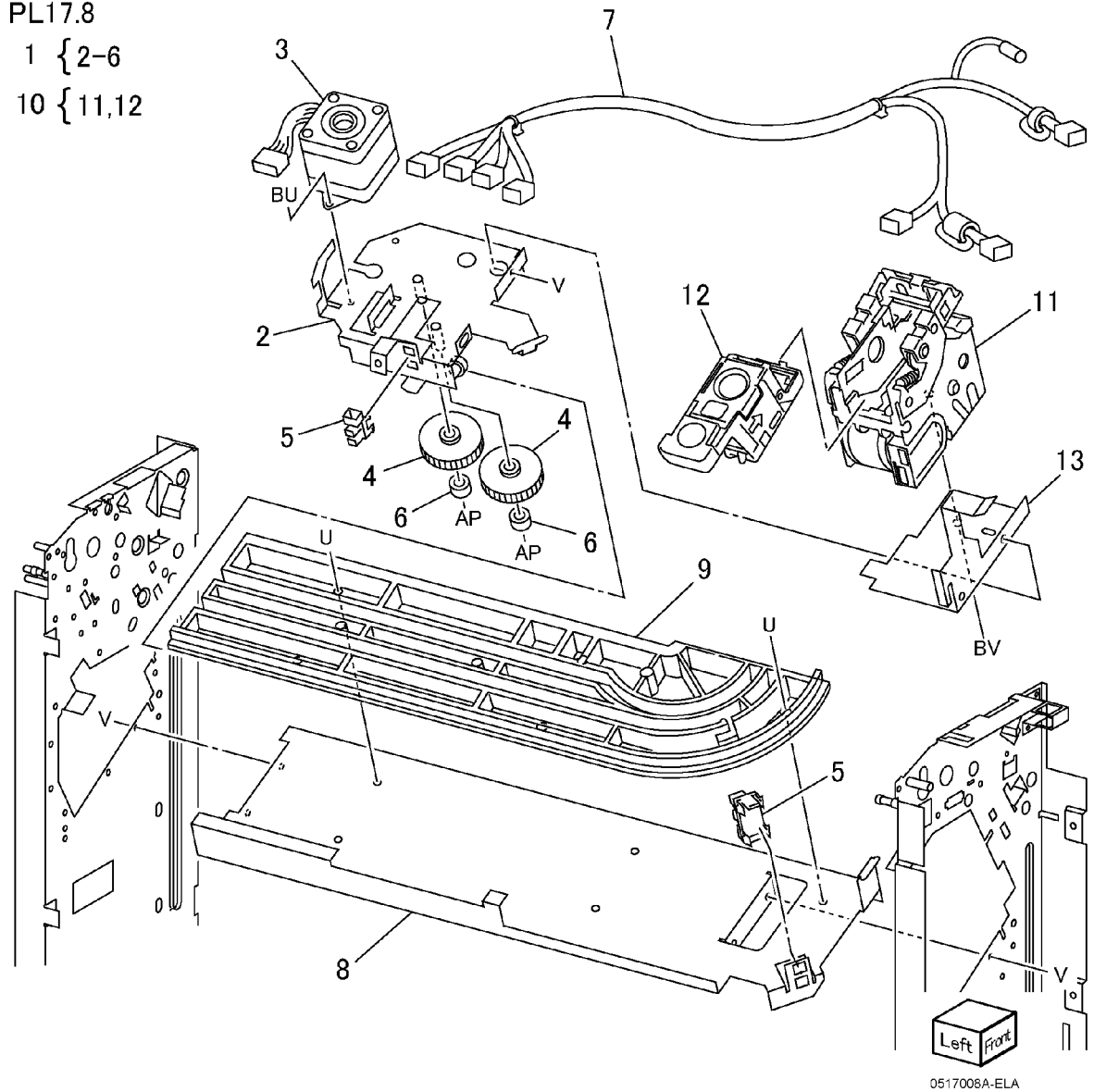
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PL 17.8 Staple Unit

Item	Part	Description
1	041K94260	Carriage Assembly
2	-	Bracket Assembly (P/O PL 17.8 Item 1)
3	127K32860	Staple Move Motor
4	-	Gear (P/O PL 17.8 Item 1)
5	130K88780	Staple Move Sensor, Staple Front Corner Sensor
6	-	Roll (P/O PL 17.8 Item 1)
7	-	Wire Harness (Not Spared)
8	-	Plate (Not Spared)
9	-	Staple Unit Rail (Not Spared) (REP 16.8.1)
10	029K03720	Staple Assembly (REP 16.8.2)
11	-	Staple (P/O PL 17.8 Item 10)
12	050K48750	Staple Cartridge
13	-	Bracket (Not Spared)

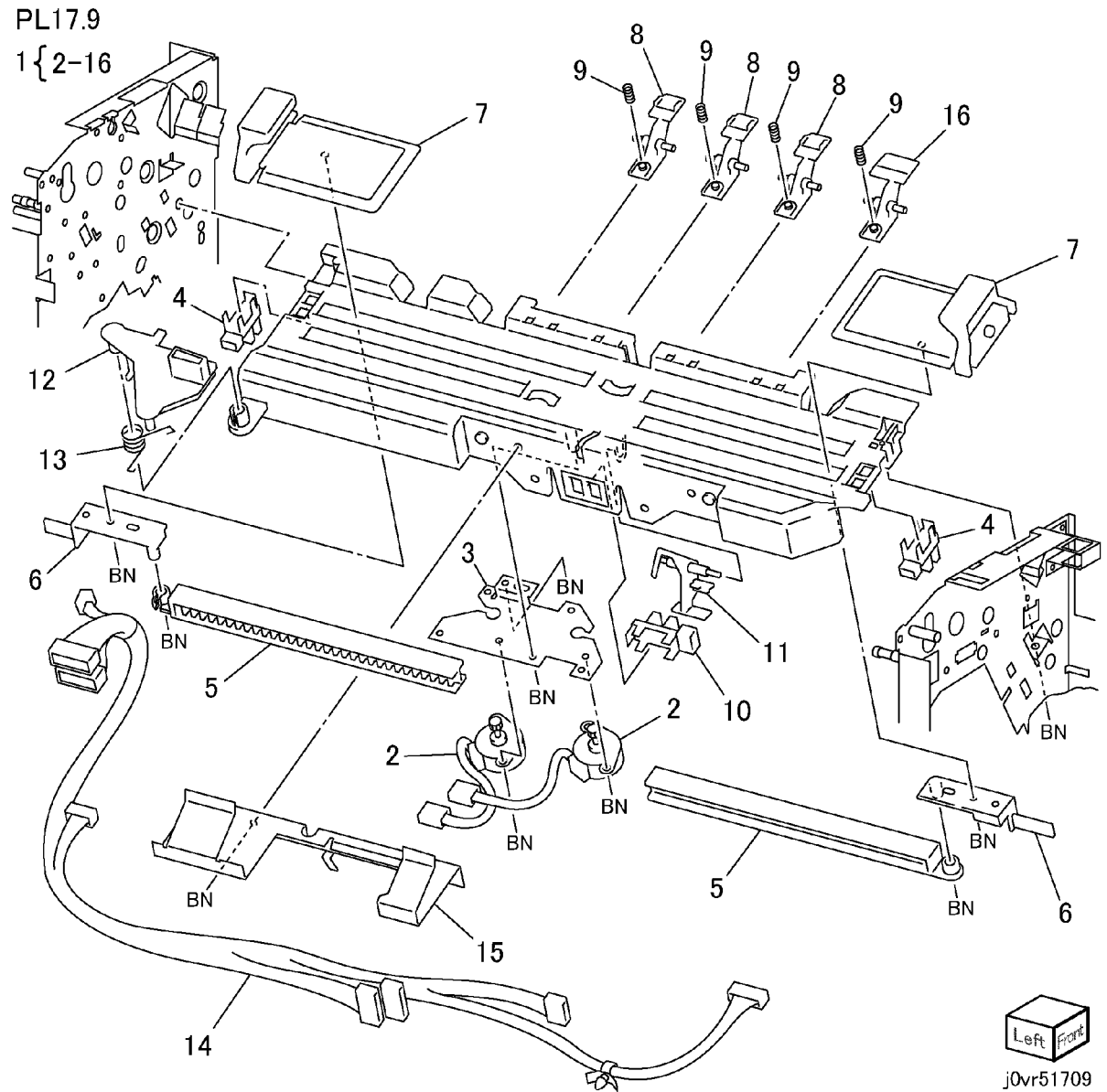
PL17.8

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10 { 11,12



PL 17.9 Compiler Tray Assembly

Item	Part	Description
1	050K56691	Compiler Tray Assembly (REP 16.9.1)
2	127K39920	Front/Rear Tamper Motor
3	-	Plate (P/O PL 17.9 Item 1)
4	130K88770	Front/Rear Tamper Home Sensor
5	-	Rack (P/O PL 17.9 Item 1)
6	-	Actuator (P/O PL 17.9 Item 1)
7	-	Tamper Assembly (P/O PL 17.9 Item 1)
8	-	Finger (P/O PL 17.9 Item 1)
9	-	Spring (P/O PL 17.9 Item 1)
10	130K88780	Compiler Paper Sensor
11	120E24490	Actuator
12	-	Paper Guide (P/O PL 17.9 Item 1)
13	-	Spring (P/O PL 17.9 Item 1)
14	-	Wire Harness (P/O PL 17.9 Item 1)
15	-	End Guide (P/O PL 17.9 Item 1)
16	-	Finger (P/O PL 17.9 Item 1)

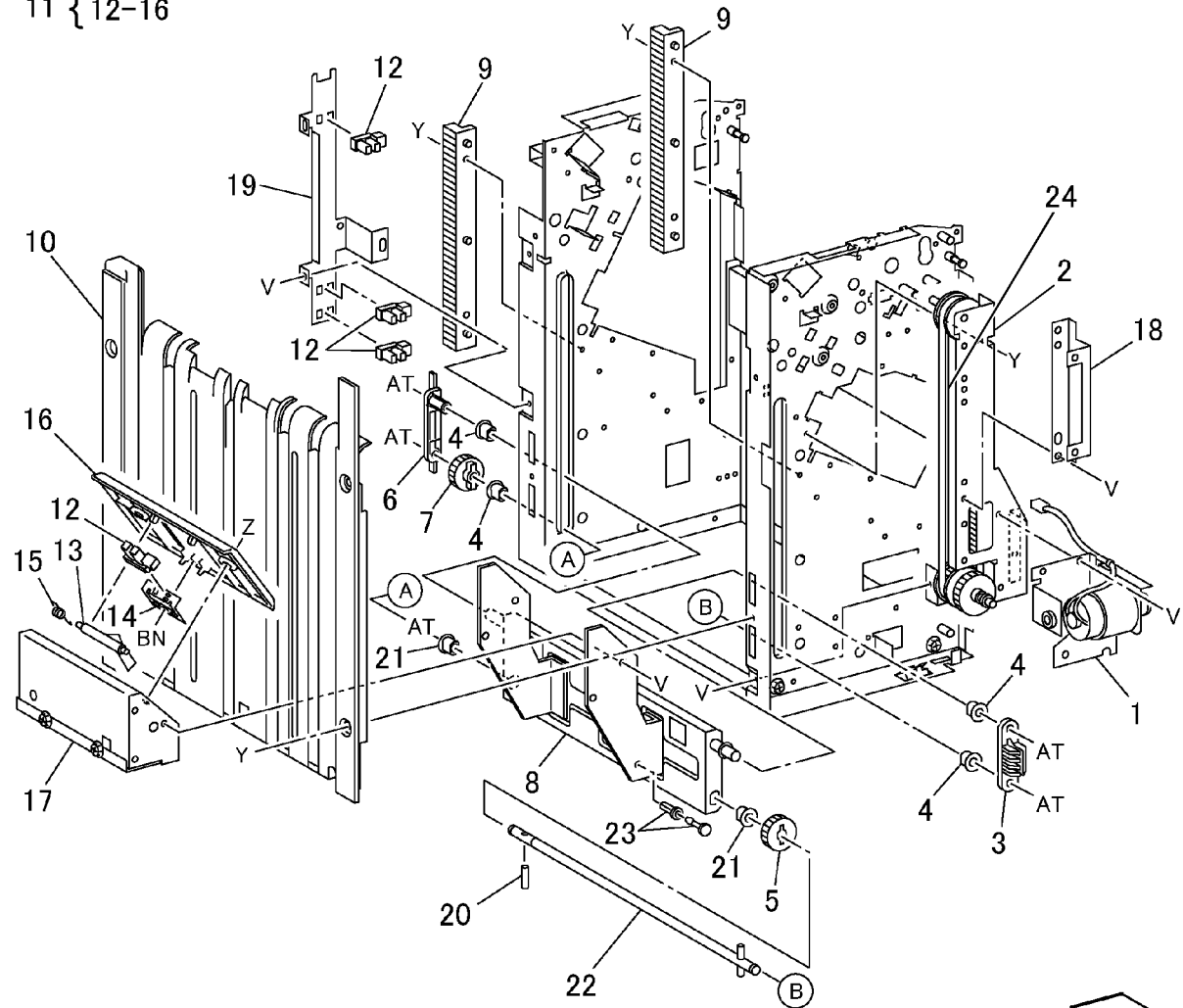


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PL 17.10 Elevator

Item	Part	Description
1	127K39910	Stacker Motor Assembly (REP 16.10.1)
2	-	Elevator Bracket (Front) (Not Spared)
3	-	Clamp (Not Spared)
4	-	Bearing (Not Spared)
5	007E67830	Gear (Rear)
6	-	Actuator (Not Spared)
7	007E67840	Gear (Front)
8	-	Stacker Tray Bracket Assembly (Not Spared)
9	-	Rack (Not Spared)
10	-	Tray Guide (Not Spared)
11	015K51640	Stack Paper Sensor Assembly
12	130K88770	Stack Paper Sensor, Stacker Upper Limit/Stack A/Stack B Sensor
13	-	Actuator (P/O PL 17.10 Item 11)
14	-	Bracket (P/O PL 17.10 Item 11)
15	-	Spring (P/O PL 17.10 Item 11)
16	-	Cover (P/O PL 17.10 Item 11)
17	-	Bracket (Not Spared)
18	-	Bracket (Not Spared)
19	-	Bracket (Not Spared)
20	-	Pin (Not Spared)
21	-	Bearing (Not Spared)
22	-	Shaft (Not Spared)
23	-	Rivet (Not Spared)
24	-	Elevator Belt (Not Spared) (REP 16.10.2)

PL17.10
11 {12-16

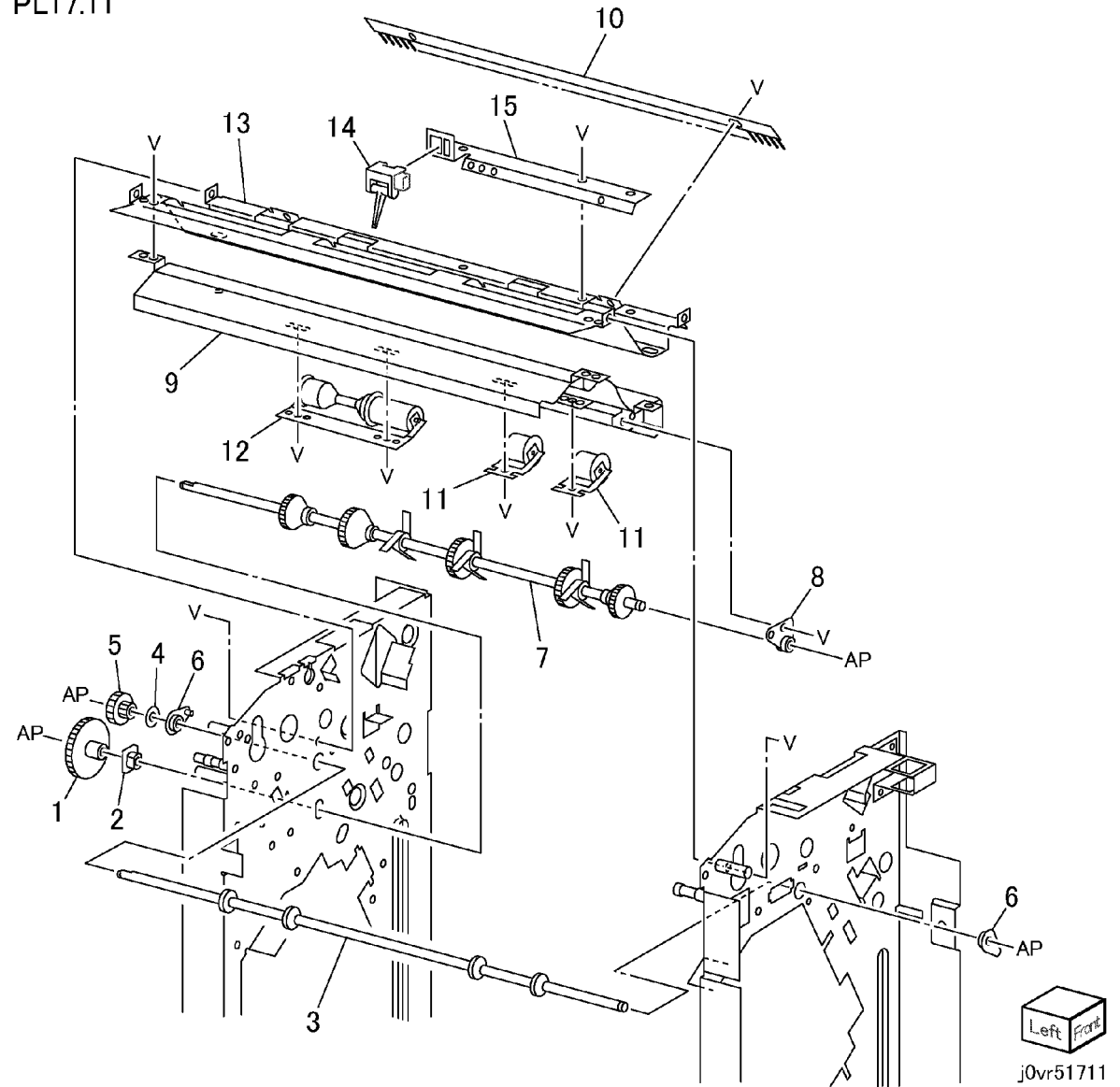


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PL 17.11 Exit

Item	Part	Description
1	-	Gear (46Z) (Not Spared)
2	-	Bearing (Not Spared)
3	-	Exit Shaft (Not Spared)
4	-	Collar (Not Spared)
5	-	Gear (32Z/18T) (Not Spared)
6	-	Bearing (Not Spared)
7	006K23730	Paddle Gear Shaft (REP 16.11.1)
8	-	Paddle Bearing (Not Spared)
9	-	Lower Exit Chute (Not Spared)
10	-	Eliminator (Not Spared)
11	022K65140	Pinch Roll (Exit 1)
12	022K67460	Pinch Roll (exit R)
13	-	Upper Exit Chute (Not Spared)
14	-	Compiler Entrance Sensor (Not Spared)
15	-	Bracket (Not Spared)

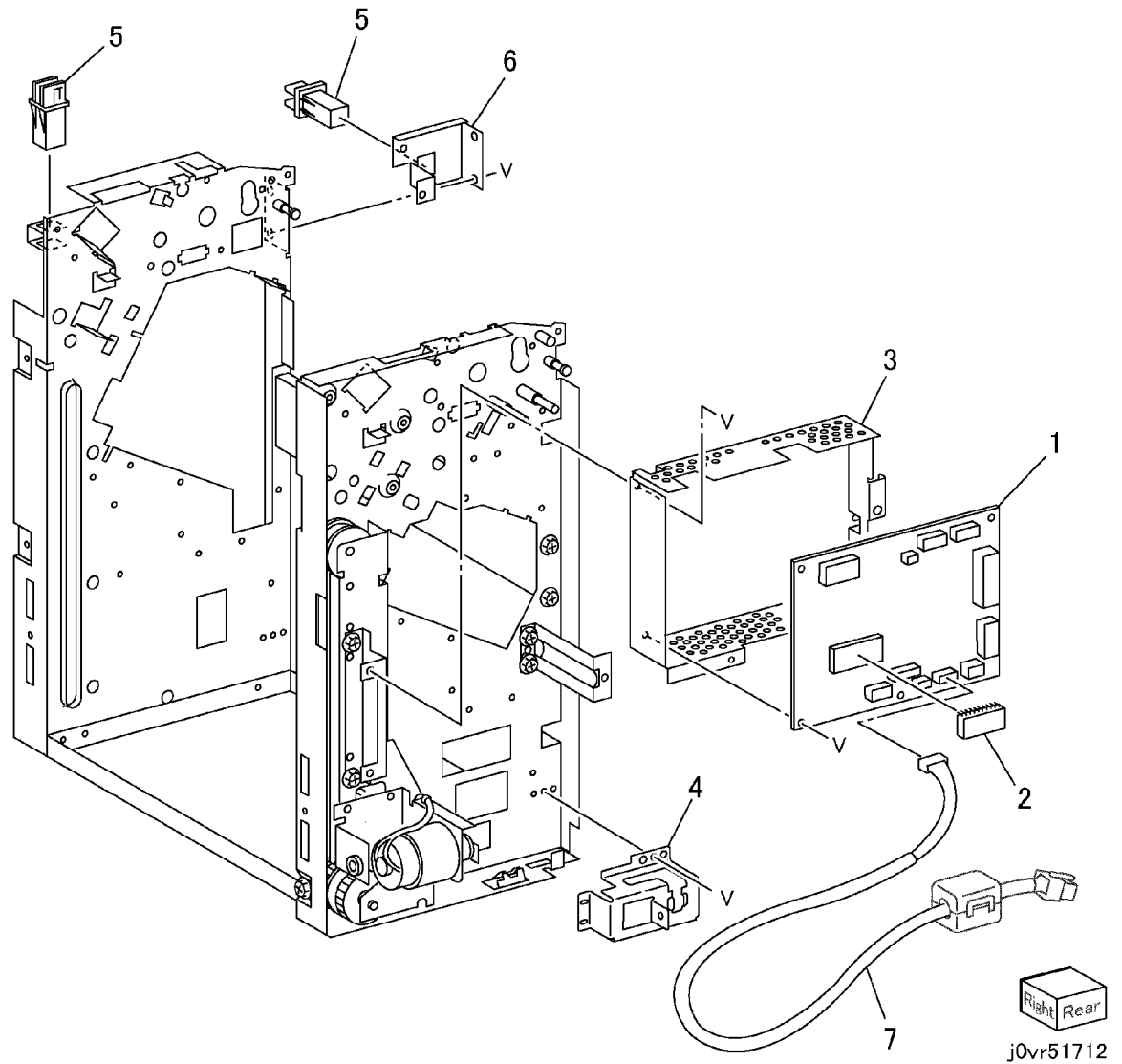
PL17.11



PL 17.12 Electrical

Item	Part	Description
1	960K15771	Finisher PWB (REP 16.12.1)
2	537K68531	ROM
-	539E02401	Finisher IC Prom
3	-	PWB Bracket (Not Spared)
4	-	Bracket (Not Spared)
5	110E97990	Top Cover/Front Door Interlock Switch
6	-	Bracket (Not Spared)
7	962K27330	I/F Harness
-	962K45100	I/F Harness

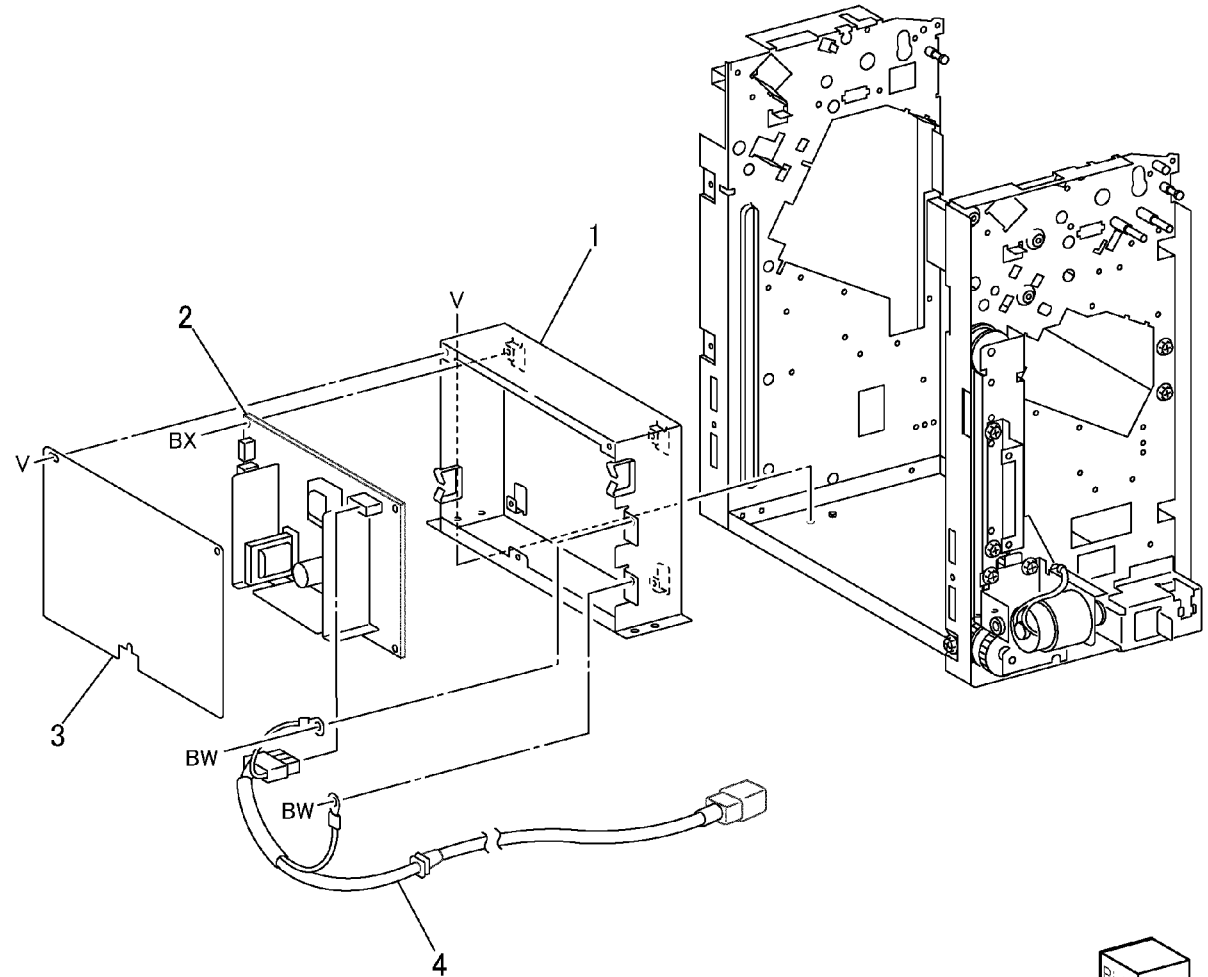
PL17.12



PL 17.13 LVPS

Item	Part	Description
1	-	LVPS Frame (Not Spared)
2	105K20991	LVPS (100V) (REP 16.12.2)
3	-	Cover (Not Spared)
4	962K27340	Power Cord

PL17.13

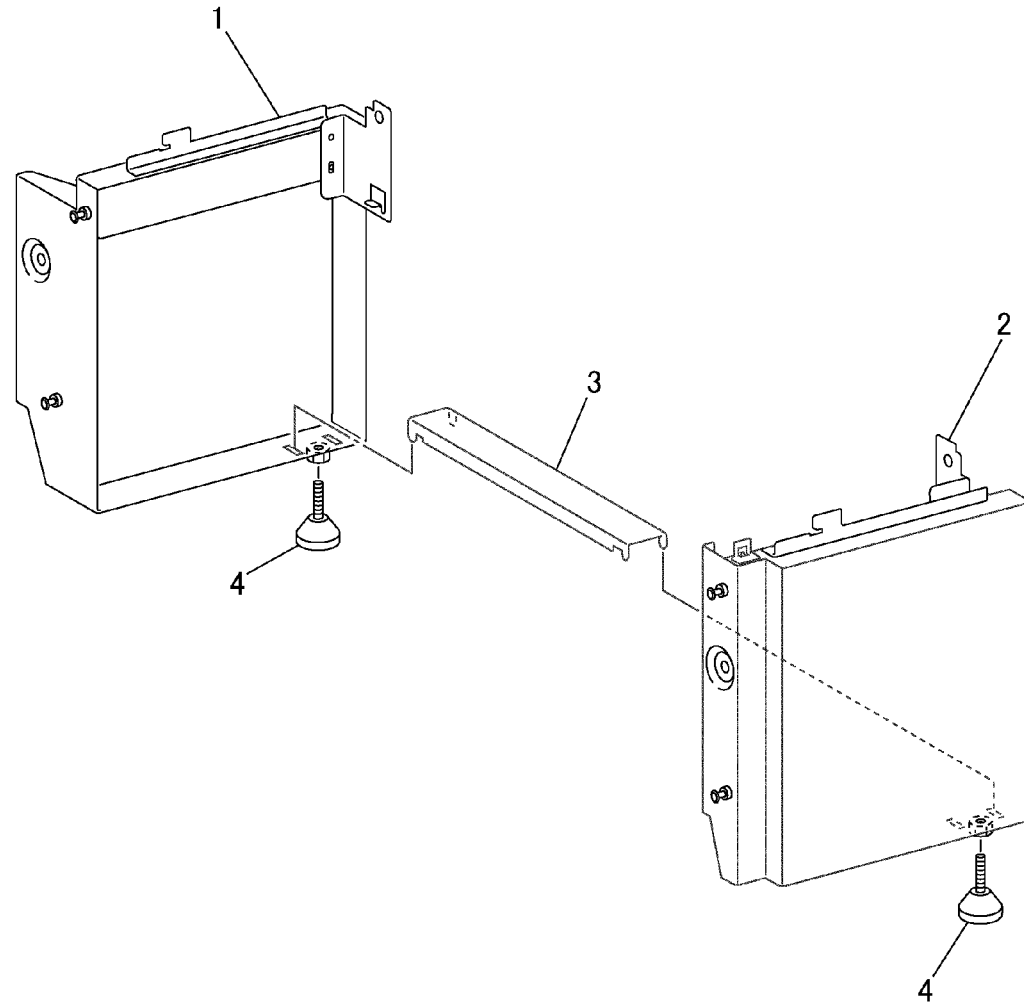


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PL 17.14 Rack

Item	Part	Description
1	-	Rear Rack (Not Spared)
2	-	Front Rack (Not Spared)
3	-	Bottom Plate (Not Spared)
4	-	Foot (Not Spared)

PL17.14



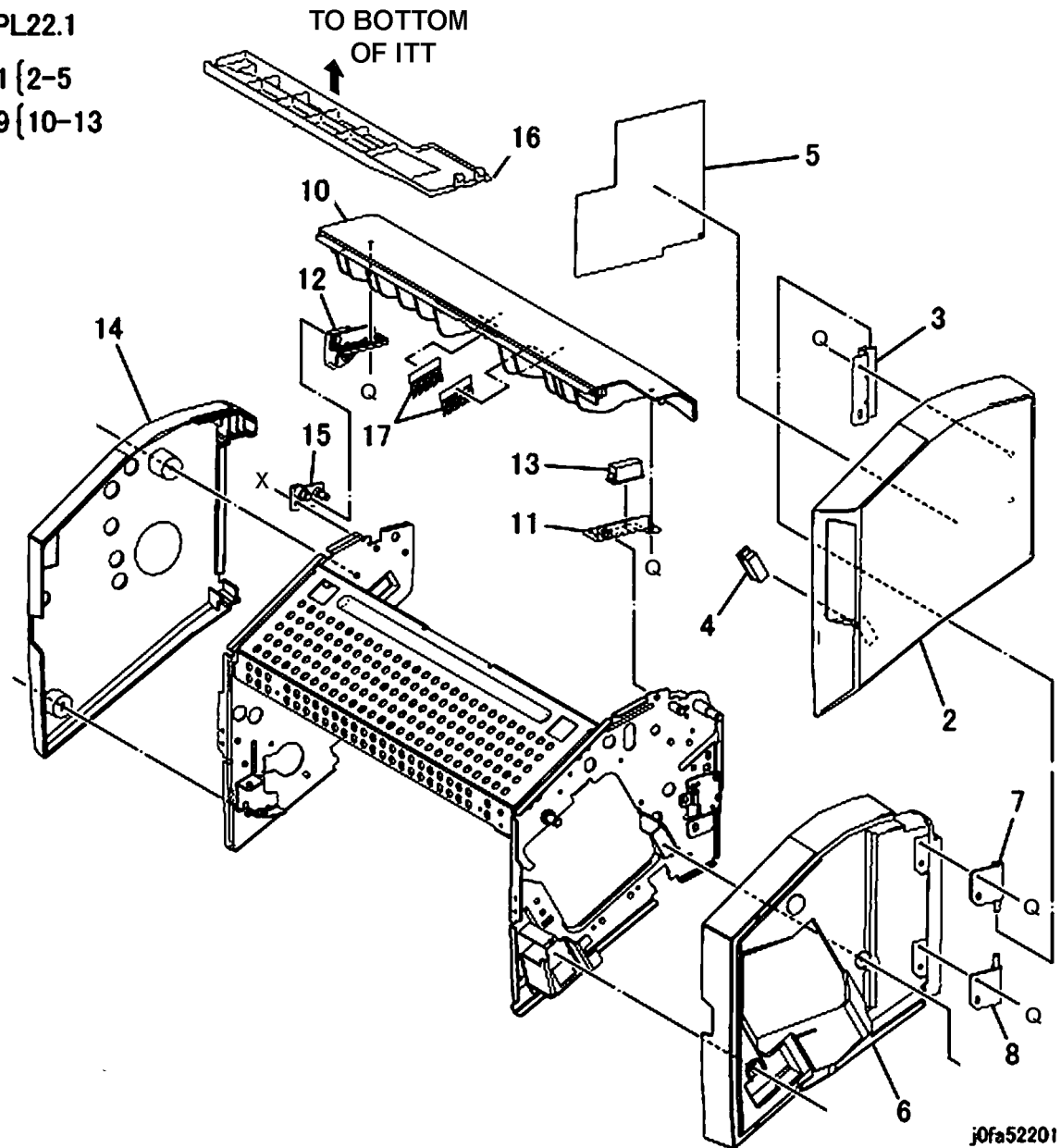
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PL 22.1 Finisher Assembly (Part 1 of 2)

Item	Part	Description
1	802K85541	Front Cover Assembly
2	-	Front Cover (P/O PL 22.1 Item 1)
3	-	Bracket (P/O PL 22.1 Item 1)
4	-	Magnet (P/O PL 22.1 Item 1)
5	-	Label (P/O PL 22.1 Item 1)
6	802E95552	Front Inner Cover
7	068K29870	Hinge
8	068K29880	Hinge
9	802K85550	Top Cover Assembly
10	-	Top Cover (P/O PL 22.1 Item 9)
11	-	Bracket (P/O PL 22.1 Item 9)
12	-	Stopper (P/O PL 22.1 Item 9)
13	-	Magnet (P/O PL 22.1 Item 9)
14	802E95570	Rear Cover
15	-	Hinge (Not Spared)
16	-	ITT Cover (Not Spared)
17	042E92330	Eliminator

PL22.1

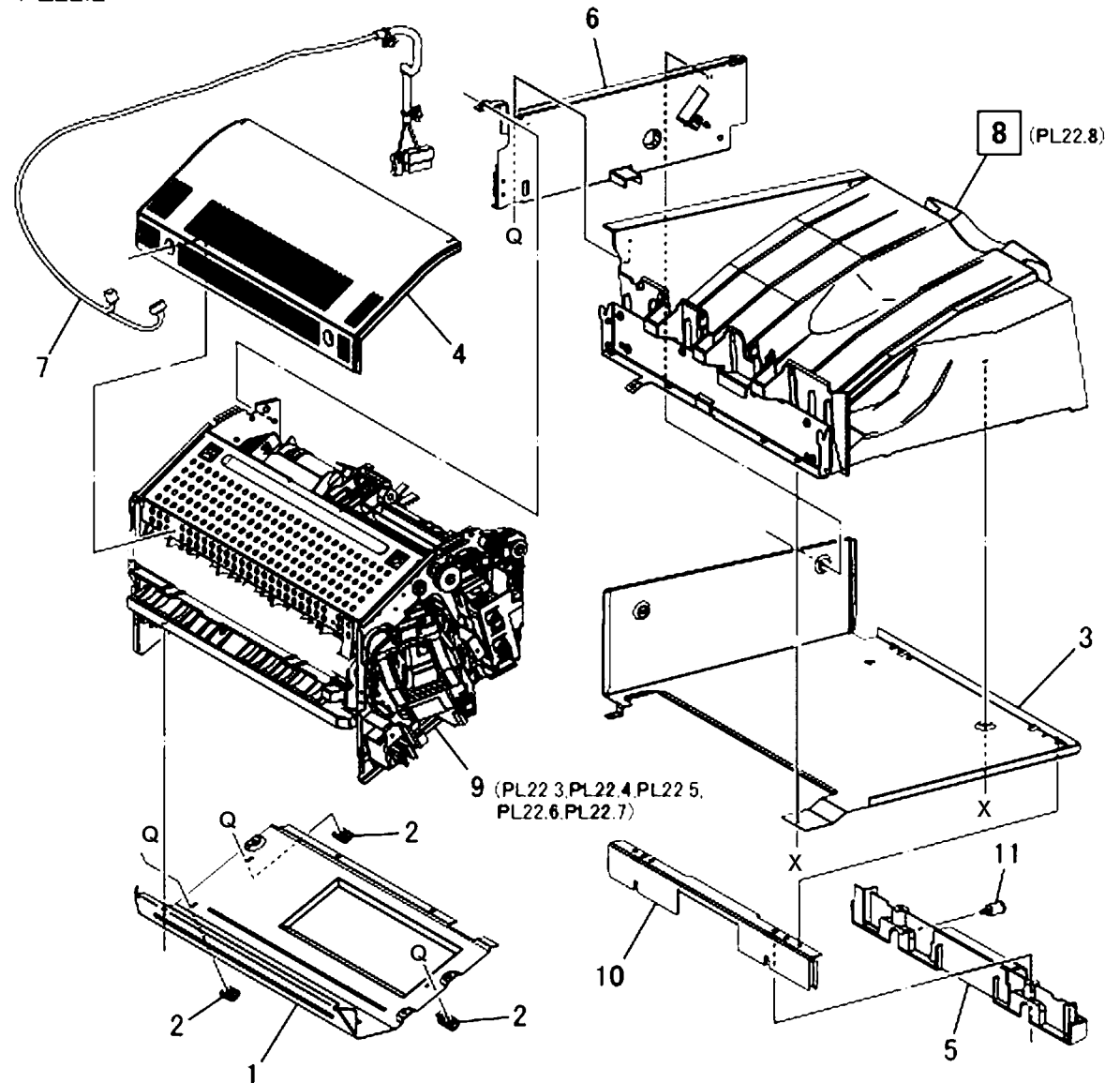
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PL 22.2 Finisher Assembly (Part 2 of 2)

Item	Part	Description
1	-	Bottom Cover (Not Spared)
2	-	Spacer (Not Spared)
3	-	Tray Cover (Not Spared)
4	802E95582	Left Cover
5	-	Support (Not Spared)
6	-	Rear Bracket (Not Spared)
7	962K42291	Wire Harness
8	050K55890	Stacker Tray Assembly (REP 22.8.1)
9	-	Stacker Base Assembly (Not Spared)
10	-	Bracket (Not Spared)
11	-	Screw (Not Spared)

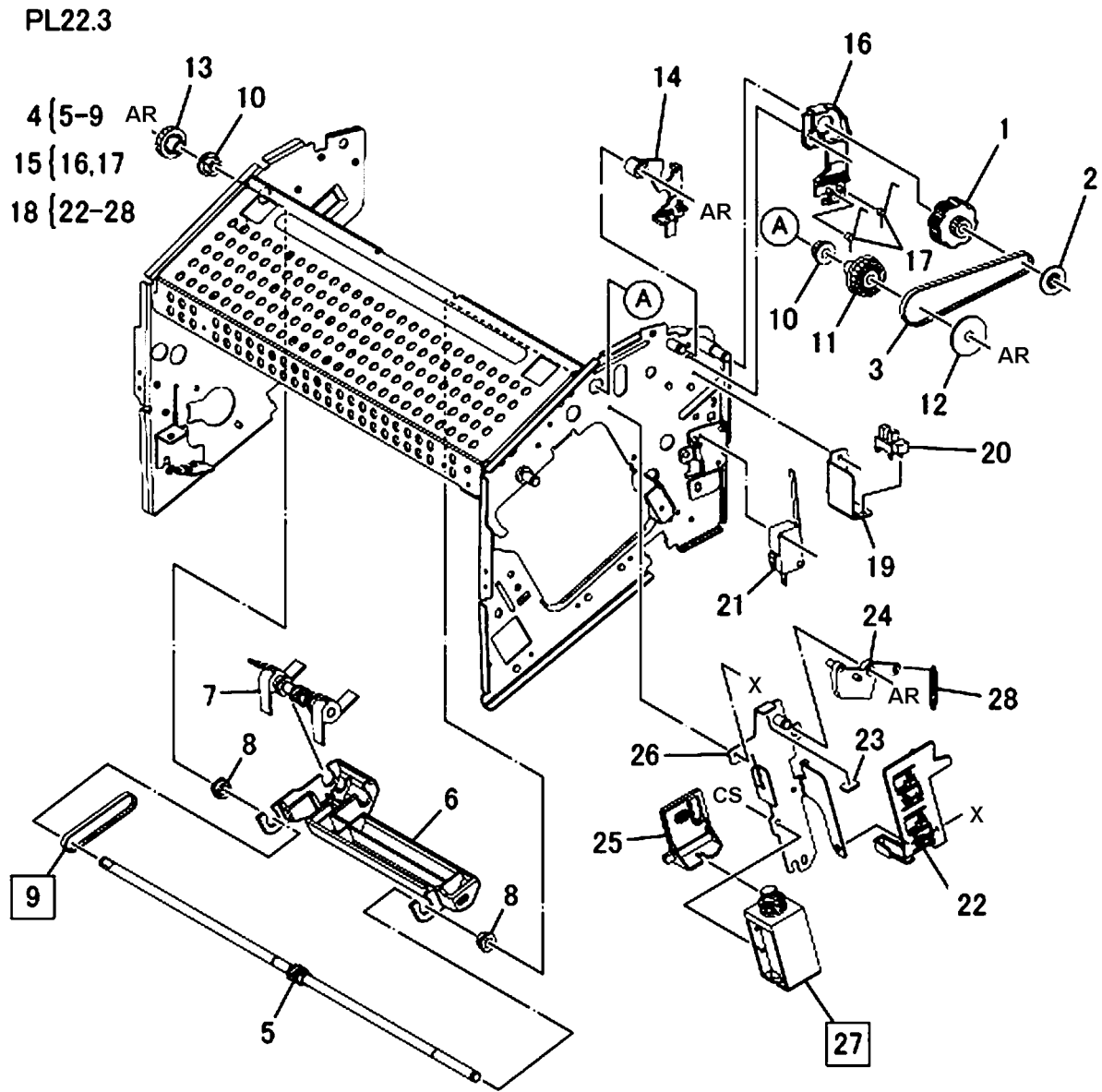
PL22.2



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PL 22.3 Stacker Base Assembly (Part 1 of 5)

Item	Part	Description
1	003E65500	Knob
2	005E89470	Collar
3	423W10454	Belt
4	012K94850	Link Shaft Assembly
5	-	Link Shaft (P/O PL 22.3 Item 4)
6	012E14913	Support
7	-	Sub Paddle Shaft Assembly (P/O PL 22.3 Item 4)
8	-	Bearing (P/O PL 22.3 Item 4)
9	423W06054	Paddle Belt (REP 22.3.1)
10	413W75959	Bearing
11	020K13900	Pulley
12	005E89490	Collar
13	807E13260	Gear (21T)
14	120E27240	Actuator
15	802K85560	Knob Cover Assembly
16	-	Knob Cover (P/O PL 22.3 Item 15)
17	-	Spring (P/O PL 22.3 Item 15)
18	012K94840	Sub Paddle Solenoid Assembly
19	-	Bracket (Not Spared)
20	130K88780	Finisher Top Cover Interlock Sensor
21	110K12980	Finisher Top Cover Interlock +24V Switch
22	-	Support (P/O PL 22.3 Item 18)
23	-	Cushion (P/O PL 22.3 Item 18)
24	-	Link (P/O PL 22.3 Item 18)
25	-	Arm (P/O PL 22.3 Item 18)
26	-	Bracket (P/O PL 22.3 Item 22)
27	121K34620	Sub Paddle Solenoid (REP 22.3.2)
28	-	Spring (P/O PL 22.3 Item 18)



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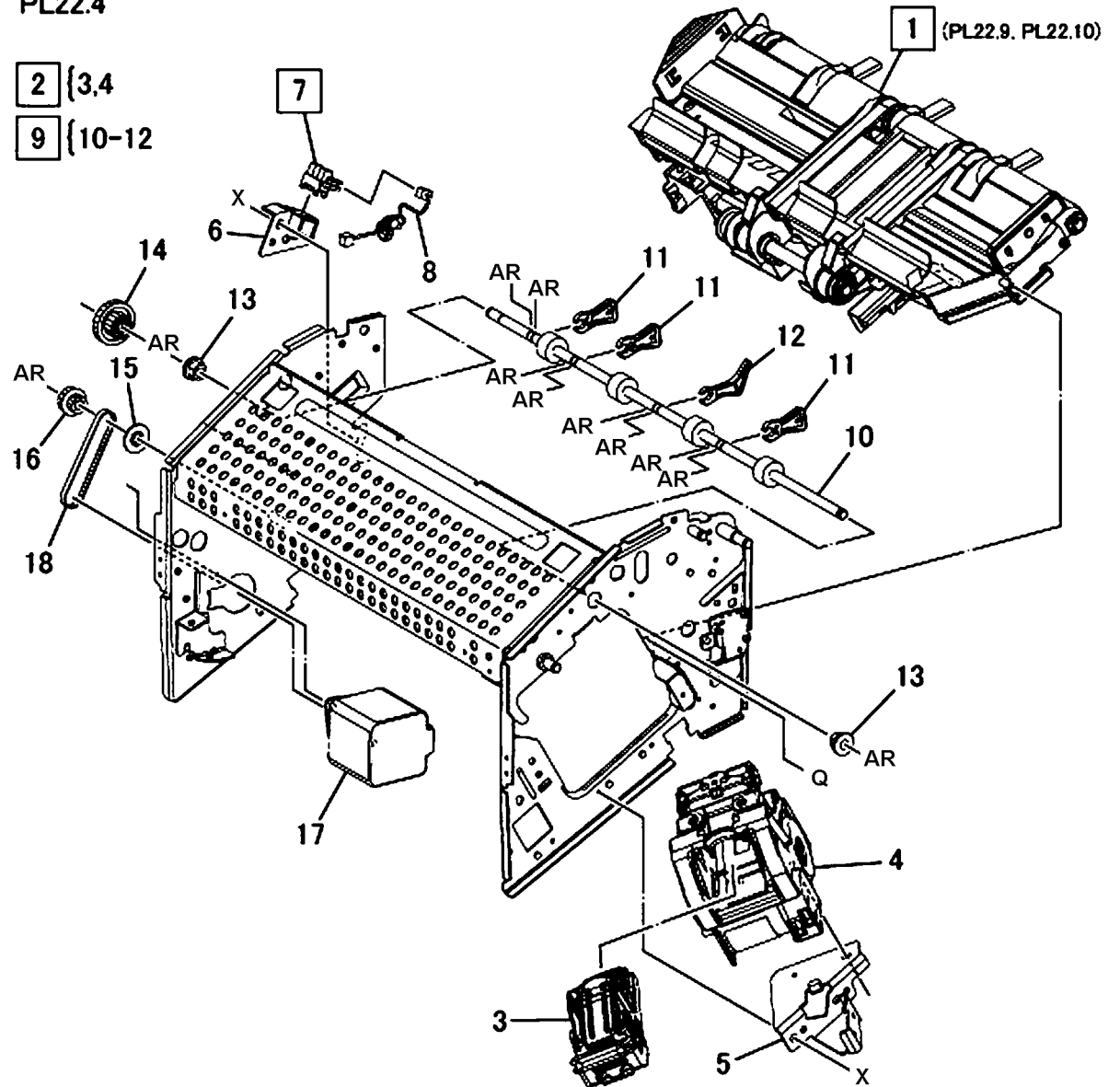
PL 22.4 Stacker Base Assembly (Part 2 of 5)

Item	Part	Description
1	050K55880	Compile Assembly (REP 22.9.1)
2	029K92350	(SCC) Staple Assembly (REP 22.4.2)
3	-	Cartridge (P/O PL 22.4 Item 2)
4	-	Stapler (P/O PL 22.4 Item 2)
5	-	Bracket (Not Spared)
6	-	Support (Not Spared)
7	930W00111	Set Clamp Home Sensor (REP 22.4.3)
8	962K44980	Wire Harness
9	022K72790	Exit Roll Assembly (REP 22.4.1)
10	-	Exit Roll (P/O PL 22.4 Item 9)
11	004E15340	Damper
12	004E15330	Center Damper
13	-	Bearing (Not Spared)
14	007K94220	Oneway Gear
15	005E89470	Collar
16	807E13230	Gear Pulley (16T/18T)
17	127K49800	Finisher Transport Motor
18	423W06954	Belt

PL22.4

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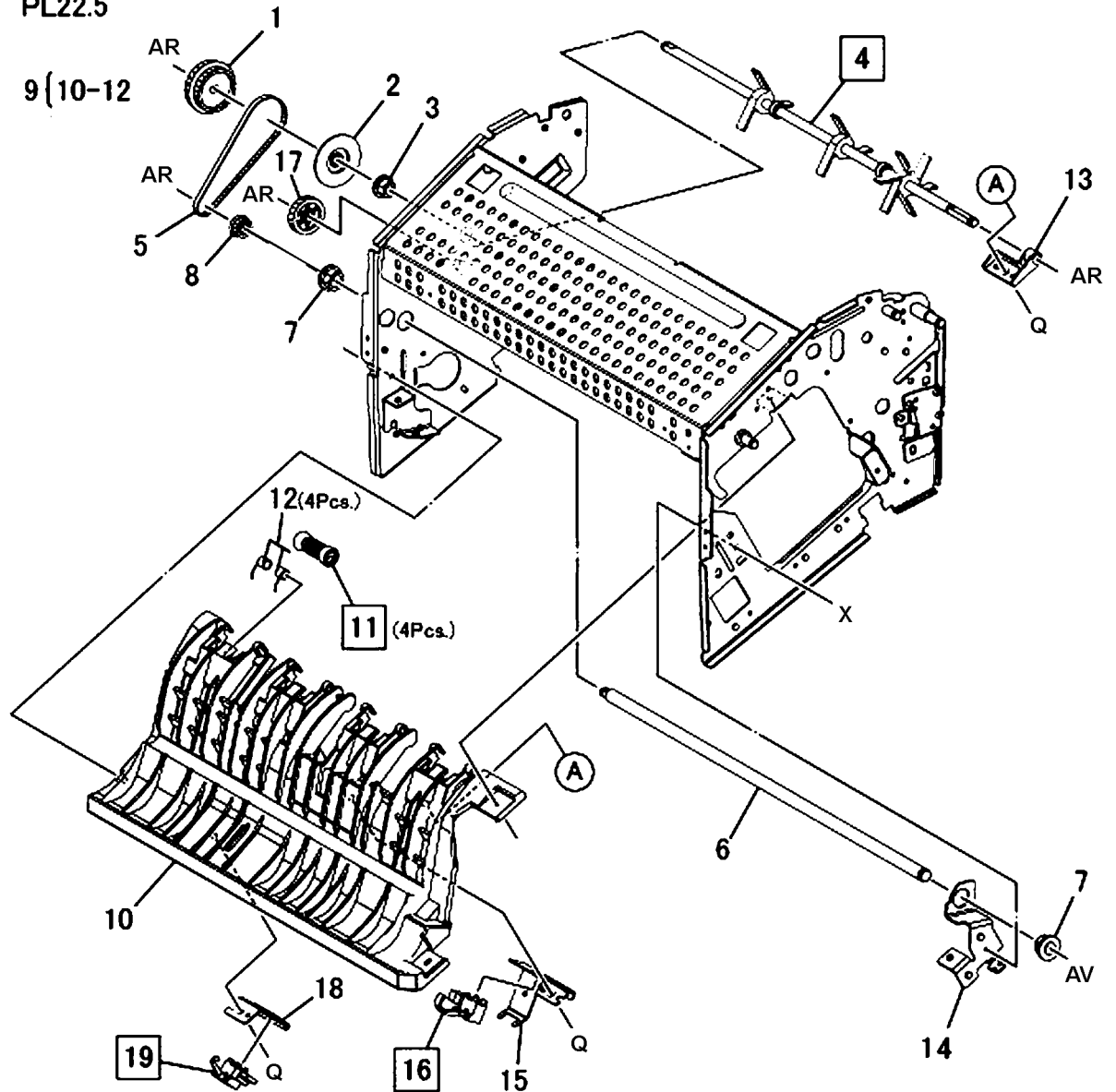


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PL 22.5 Stacker Base Assembly (Part 3 of 5)

Item	Part	Description
1	807E13250	Gear Pulley (37T/45T)
2	005E89480	Collar
3	413W75959	Bearing
4	006K25001	Main Paddle Shaft Assembly (REP 22.5.4)
5	423W09854	Belt
6	-	Shaft (Not Spared)
7	413W77559	Bearing
8	020E43500	Pulley (19T)
9	054K30360	Lower Chute Assembly (REP 22.5.5)
10	-	Lower Chute (P/O PL 22.5 Item 9)
11	022K73190	Pinch Roll (REP 22.5.1)
12	809E65931	Spring
13	-	Support (Not Spared)
14	-	Bracket (Not Spared)
15	-	Bracket (Not Spared)
16	130K93251	Compile Exit Sensor (REP 22.5.3)
17	807E13240	Gear (27T)
18	-	Bracket (Not Spared)
19	130K88190	Finisher Entrance Sensor (REP 22.5.2)

PL22.5



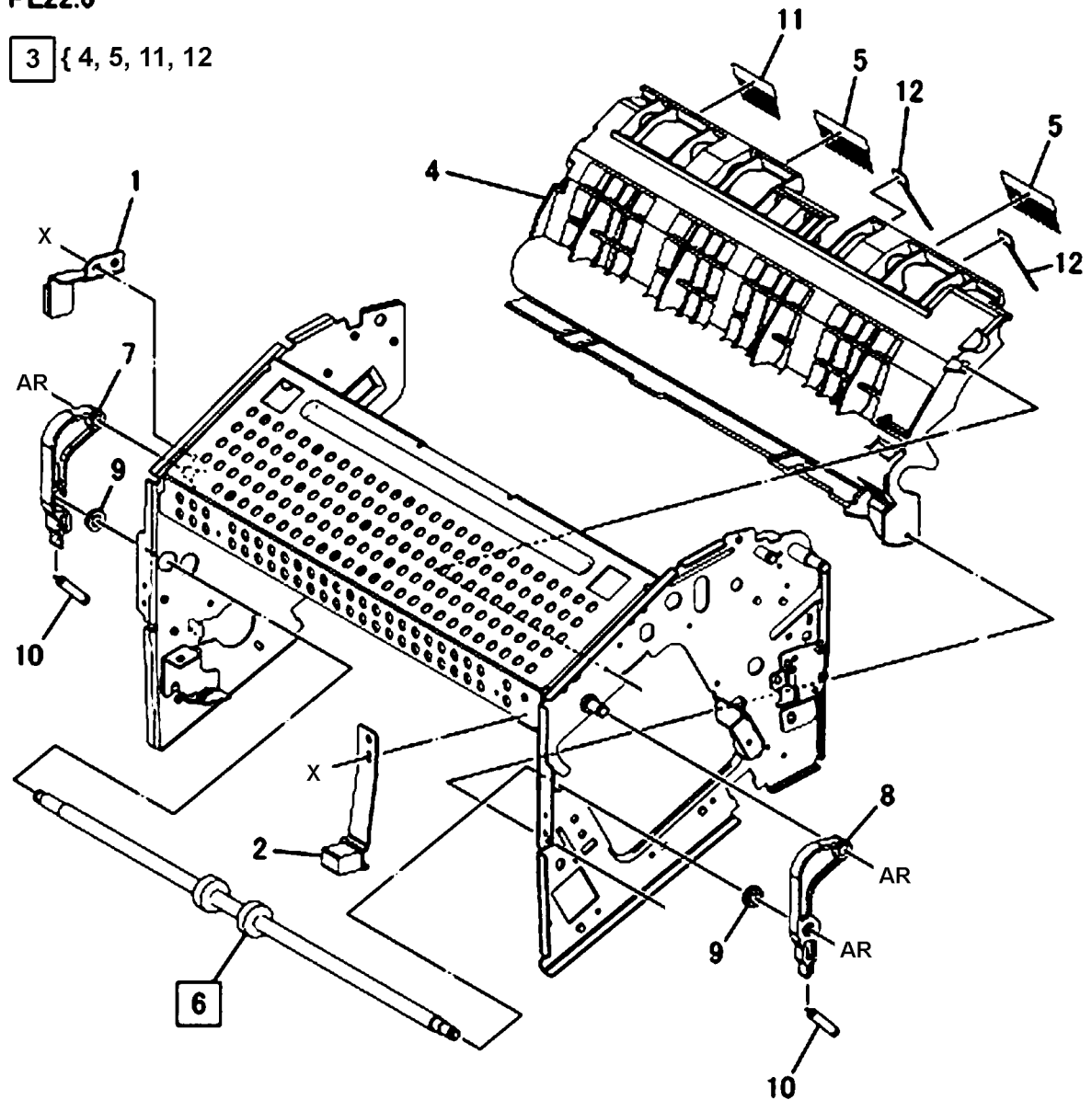
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PL 22.6 Stacker Base Assembly (Part 4 of 5)

Item	Part	Description
1	068K29930	Bracket
2	068K29940	Bracket
3	054K30600	Upper Chute Assembly (REP 22.6.2)
4	-	Upper Chute (P/O PL 22.6 Item 3)
5	042E92241	Eliminator
6	022K72782	ENT Roll Assembly (REP 22.6.1)
7	031E97041	Arm
8	031E97020	Arm
9	413W66250	Ball Bearing
10	-	Spring (Not Spared)
11	042E92330	Eliminator
12	-	Guide Paper (P/O PL 22.6 Item 3)

PL22.6

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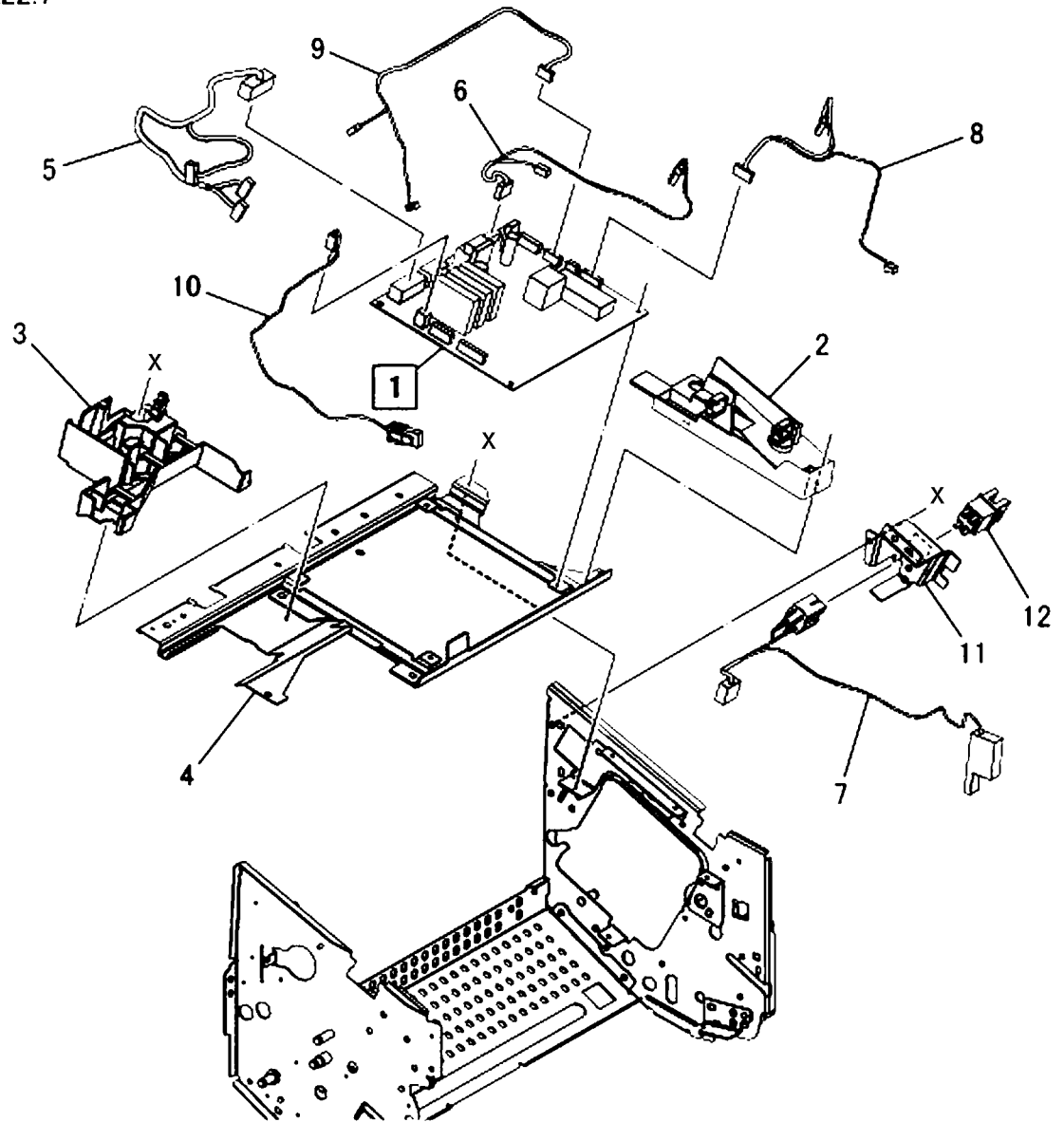


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PL 22.7 Stacker Base Assembly (Part 5 of 5)

PL22.7

Item	Part	Description
1	960K26062	Finisher PWB (REP 22.7.1)
2	055K30850	Connector Bracket
3	-	Harness Guide (Not Spared)
4	-	PWB Bracket (Not Spared)
5	-	Wire Harness (Drive)
6	-	Wire Harness (Stapler)
7	-	Wire Harness (Interlock)
8	-	Wire Harness (Front Sensor)
9	-	Wire Harness (Compile)
10	-	Wire Harness (Stacker)
11	-	Bracket (Not Spared)
12	110E97990	Finisher Front Interlock Switch

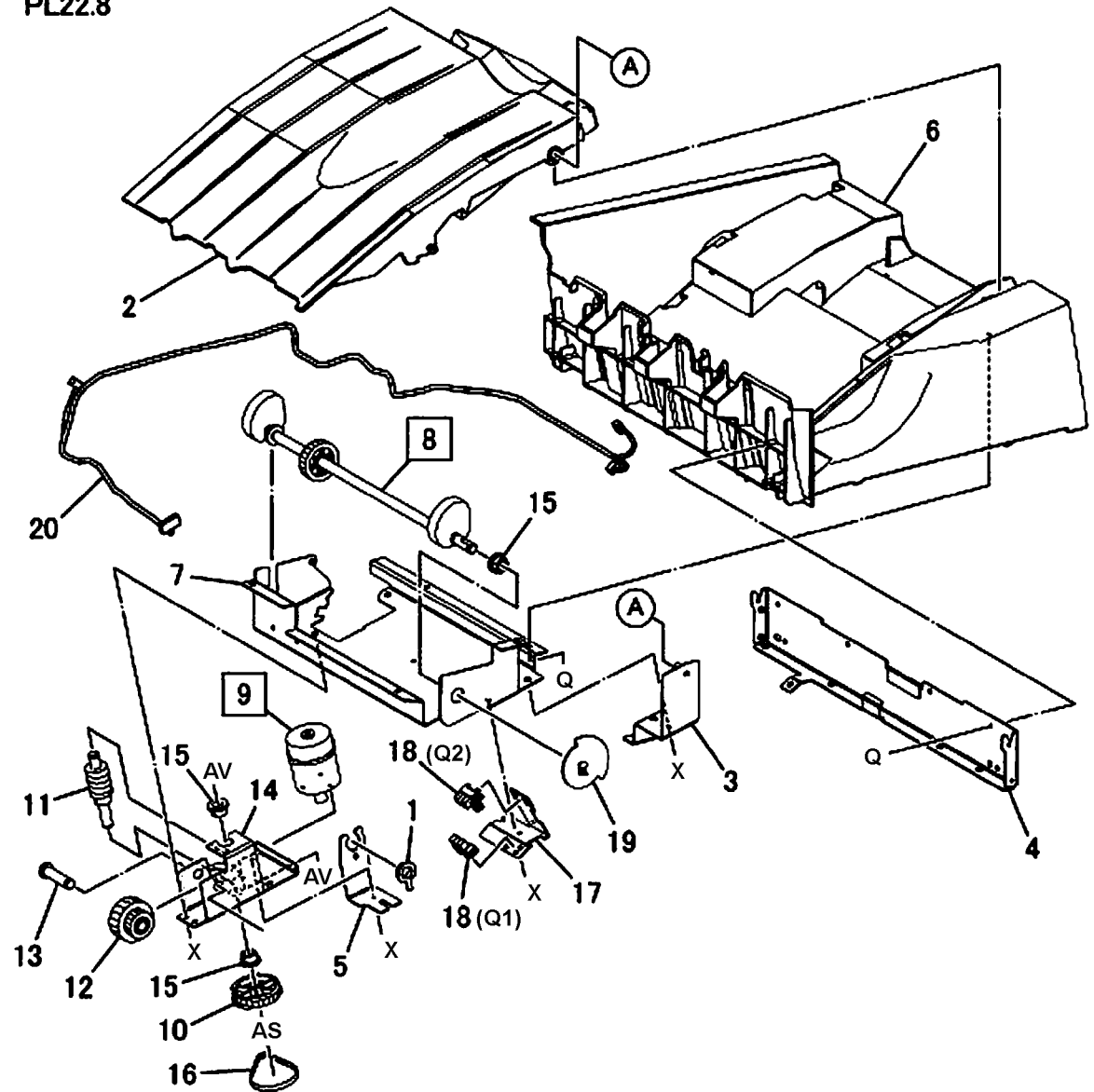


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PL 22.8 Stacker Tray Assembly

Item	Part	Description
1	-	Bearing (Not Spared)
2	-	Top Tray (Not Spared)
3	-	bracket (Not Spared)
4	-	Plate (Not Spared)
5	-	Bracket (Not Spared)
6	-	Base Tray (Not Spared)
7	-	Base Bracket (Not Spared)
8	006K25031	Stacker Shaft Assembly (REP 22.8.2)
9	127K49420	Stacker Motor (REP 22.8.3)
10	-	Pulley (60) (Not Spared)
11	-	Worm Gear (Not Spared)
12	-	Gear (16T/32T) (Not Spared)
13	-	Stud (Not Spared)
14	-	Bracket (Not Spared)
15	-	Bearing (Not Spared)
16	423W07354	Belt
17	-	Bracket (Not Spared)
18	930W00111	Stacker Stack Sensor 1 (Q1), Sensor 2 (Q2) (REP 22.8.4)
19	-	Actuator (Not Spared)
20	-	Wire Harness (Not Spared)

PL22.8



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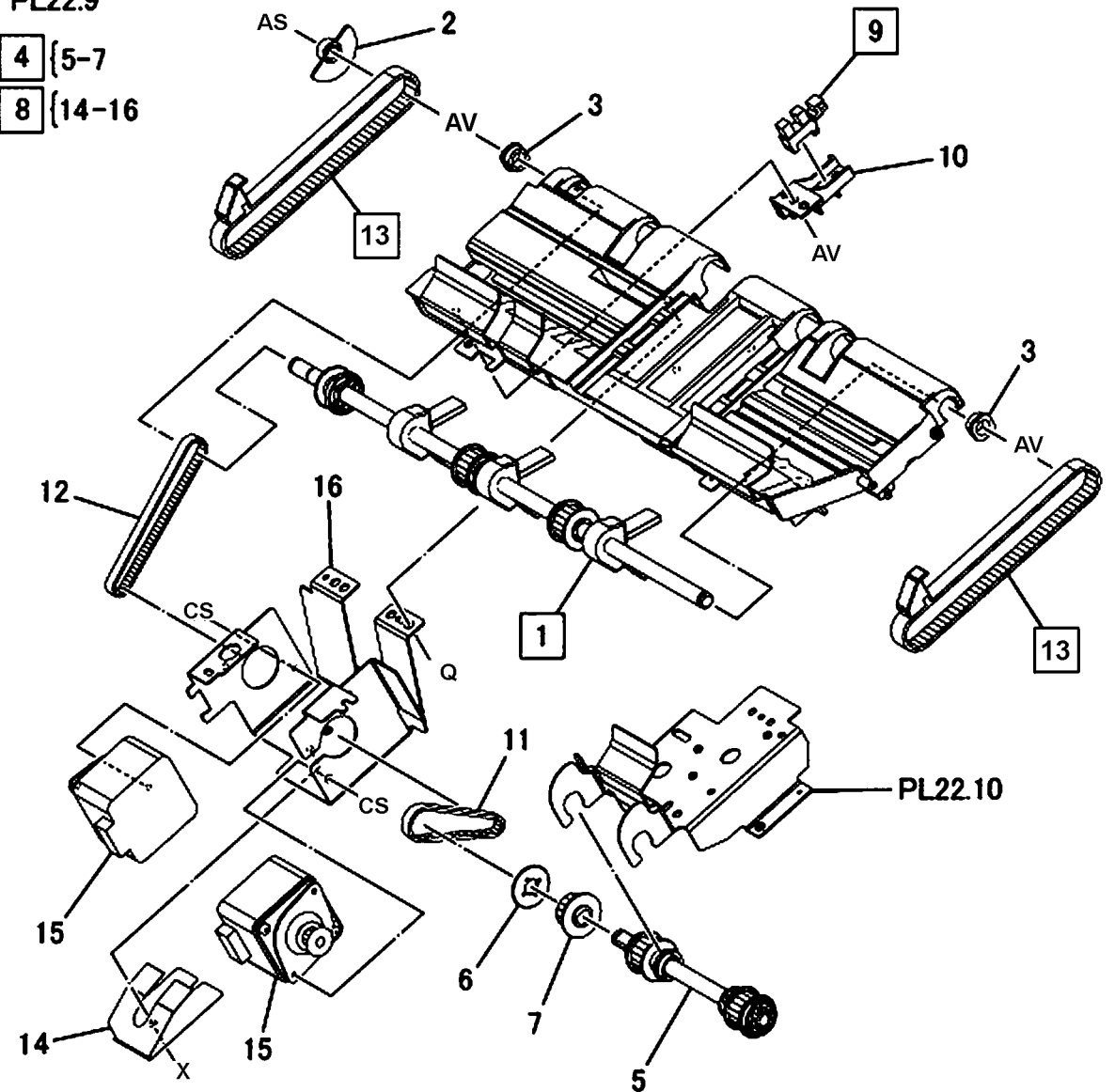
PL 22.9 Compile Assembly (Part 1 of 2)

Item	Part	Description
1	006K25010	Set Clamp Shaft (REP 22.9.2)
2	120E27220	Actuator
3	413W11860	Bearing
4	006K25020	Eject Shaft Assembly (REP 22.9.6)
5	-	Eject Shaft (P/O PL 22.9 Item 4)
6	-	Spacer (P/O PL 22.9 Item 4)
7	-	Pulley (P/O PL 22.9 Item 4)
8	068K29830	Eject/Set Clamp Motor Assembly (REP 22.9.4)
9	930W00111	Rear Tamper Home Sensor (REP 22.9.5)
10	-	Support (P/O item 8)
11	423W26754	Belt
12	423W29554	Belt
13	023K91530	Eject Belt (REP 22.9.3)
14	-	Spring (P/O item 8)
15	-	Eject Motor, Set Clamp Motor (P/O item 8)
16	-	Bracket (P/O item 8)

PL22.9

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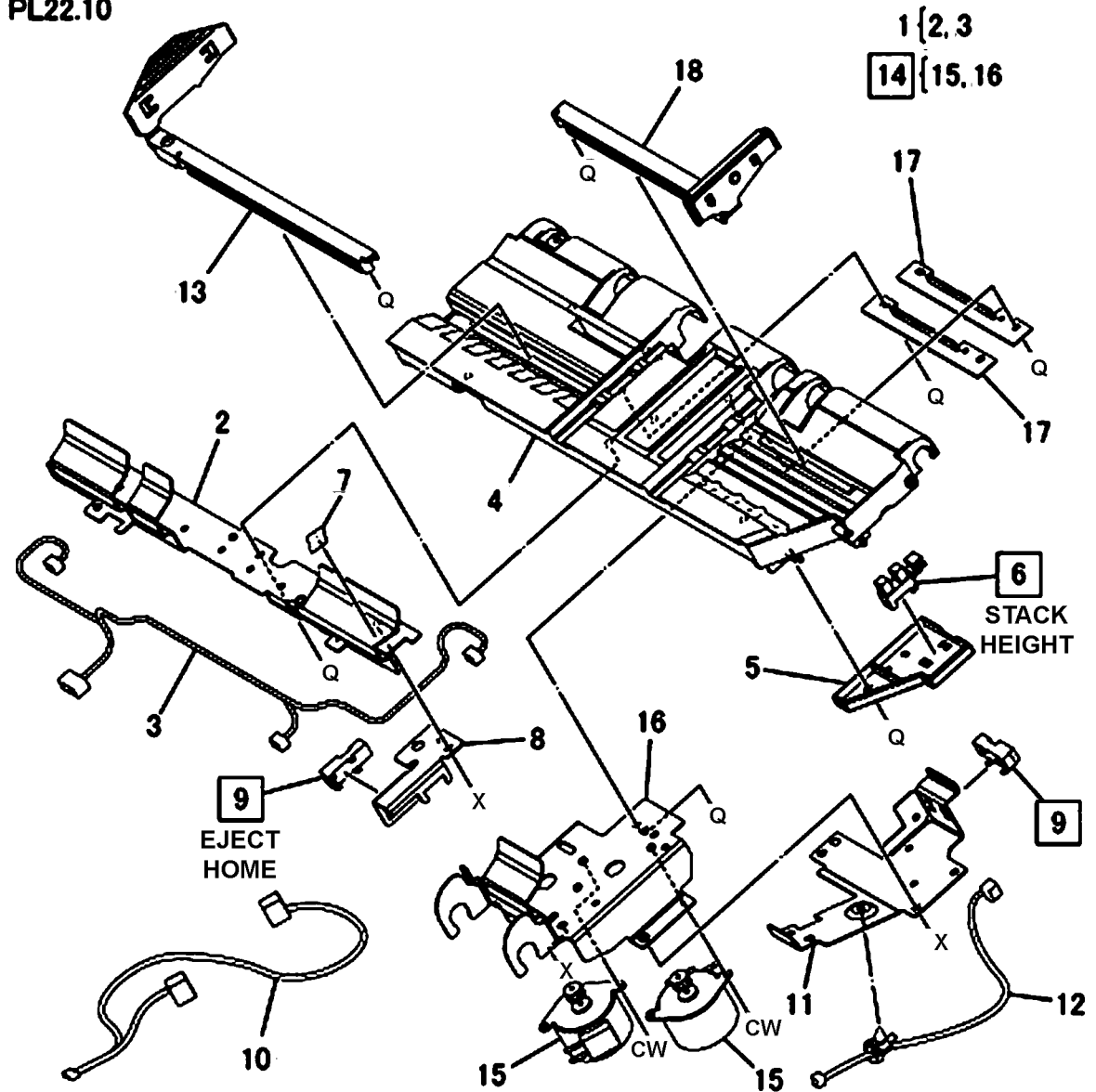


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PL 22.10 Compile Assembly (Part 2 of 2)

Item	Part	Description
1	068K30510	Bracket Assembly
2	-	Bracket (P/O PL 22.10 Item 1)
3	-	Wire Harness (P/O PL 22.10 Item 1)
4	050E94302	Compile Tray
5	-	Support (Not Spared)
6	930W00111	(SCC) Front Tamper Home Sensor (REP 22.10.2)
7	038E34860	Paper Guide
8	-	Bracket (Not Spared)
9	-	Stack Height Sensor (REP 22.10.4)
-	930W00212	Eject Home Sensor (P/O PL 22.10 Item 7) (REP 22.10.3)
10	962K42270	Wire Harness
11	-	bracket (P/O PL 22.10 Item 10)
12	-	Wire Harness (P/O PL 22.10 Item 10)
13	038K88990	Tamper Guide, Rear
-	-	Stack Height Sensor (P/O PL 22.10 Item 10) (REP 22.10.4)
14	068K30740	(SCC) Front/Rear Tamper Motor Assembly (REP 22.10.1)
15	-	Front / Rear Tamper Motor (P/O PL 22.10 Item 14)
16	-	Bracket (P/O PL 22.10 Item 14)
17	001E70981	Rail
18	038K89260	Tamper Guide, Front

PL22.10



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Common Hardware

Item	Part	Description	Item	Part	Description
A	112W27677	Screw (Red) (M3 x 6)	BB	112W27659	Screw (M3 x 6)
B	112W27678	Screw (M3 x 8)	BC	113W16051	Screw (M2 x 10)
C	112W27851	Screw (M3 x 8)	BD	113W20688	Screw (M2.5 x 6)
D	112W27898	Screw (M3 x 8)	BE	113W27551	Screw (M3 x 5)
E	113W15488	Screw (M2 x 4)	BF	141W27451	Setscrew (M3 x 4)
F	113W20678	Screw (M3 x 6)	BG	153W15888	Tapping Screw (M4 x 12)
G	113W20857	Screw (M3 x 8)	BH	153W16288	Tapping Screw (M4 x 12)
H	113W21278	Screw (M3 x 12)	BJ	158W35878	Screw (M4 x 8)
J	113W21778	Screw (M3 x 18)	BK	271W16050	Dowel Pin (2 x 10)
K	113W27688	Screw (M3 x 6)	BL	285W16051	Spring Pin (2 x 10)
L	113W36278	Screw (M4 x 12)	BM	153W17655	Tapping Screw (M3 x 6)
M	114W27678	Screw (M3 x 6)	BN	153W17855	Tapping Screw (M3 x 8)
N	141W35651	Set Screw (M4 x 6)	BP	252W29450	Nylon Washer (t1) (8)
P	153W17688	Tapping Screw (M3 x 6)	BQ	158W36255	Screw (M4 x 12)
Q	153W17888	Tapping Screw (M3 x 8)	BR	354W26251	E-Clip (5)
R	153W18088	Tapping Screw (M3 x 10)	BS	153W27855	Tapping Screw (M3 x 8)
S	153W27678	Tapping Screw (M3 x 6)	BT	113W20457	Screw (M3 x 4)
T	153W27878	Tapping Screw (M3 x 8)	BU	113W27451	Screw (M3 x 4)
U	158W27655	Screw (M3 x 6)	BV	113W20657	Screw (M3 x 6)
V	158W27663	Screw (M3 x 6)	BW	112W35651	Screw (M4 x 6)
W	158W27677	Screw (Red) (M3 x 6)	BX	112W27859	Screw (M3 x 8)
X	158W27678	Screw (M3 x 6)	BY	158W28678	Screw (M3 x 16)
Y	158W27855	Screw (M3 x 8)	BZ	285W21851	Spring Pin (2.5 x 20)
Z	158W27863	Screw (M3 x 8)	CA	252W26450	Nylon Washer (t1) (5)
AA	158W27878	Screw (M3 x 8)	CB	251W19278	Washer (t0.5) (2.5)
AB	158W28078	Screw (M3 x 10)	CC	113W21478	Screw (M3 x 14)
AC	158W28255	Screw (M3 x 12)	CD	113W21078	Screw (M3 x 10)
AD	158W28278	Screw (M3 x 12)	CE	354W13278	E-Clip (1.5)
AE	158W35678	Screw (M4 x 6)	CF	158W27688	Screw (M3 x 7)
AF	220W21278	Nut (M3)	CG	113W35878	Screw (M4 x 8)
AG	271W21250	Dowel Pin (2.5 x 12)	CH	158W27888	Screw (M3 x 9)
AH	285W16251	Spring Pin (2 x 12)	CJ	113W20878	Screw (M3 x 8)
AJ	285W28051	Spring Pin (3 x 10)	CK	252W24278	Nylon Washer (6)
AK	354W15251	E-Clip (2)	CL	252W29350	Washer
AL	354W15278	E-Clip (2)	CM	271W20850	Dowel Pin (2.5 x12)
AM	354W21251	E-Clip (2)	CN	271W28650	Dowel Pin (2.5 x 12)
AN	354W21278	E-Clip (3)	CP	158W45078	Screw
AP	354W24251	E-Clip (4)	CQ	113W16088	Screw (M2 x 10)
AQ	354W24254	KL-Clip (4)	CR	113W27588	Screw (M3 x 5)
AR	354W24278	E-Clip (4)	CS	113W20478	Screw (M3 x 4)
AS	354W26278	E-Clip (5)	CT	252W31350	Washer (10) (t0.5)
AT	354W27251	E-Clip (6)	CU	252W31250	Washer (10) (t0.25)
AU	354W27254	KL-Clip (6)	CV	112W27878	Screw-DT (M3 x 8)
AV	354W27278	E-Clip (6)	CW	113W27488	Pan Head Screw
AW	354W28278	E-Clip (7)			
AX	354W29251	E-Clip (8)			
AY	354W29278	E-Clip (8)			
AZ	251W21278	Washer T.05 (3)			
BA	113W27651	Screw (M3 x 6)			

How to use UI Diagnostics	
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UI Diagnostic Mode

Procedure

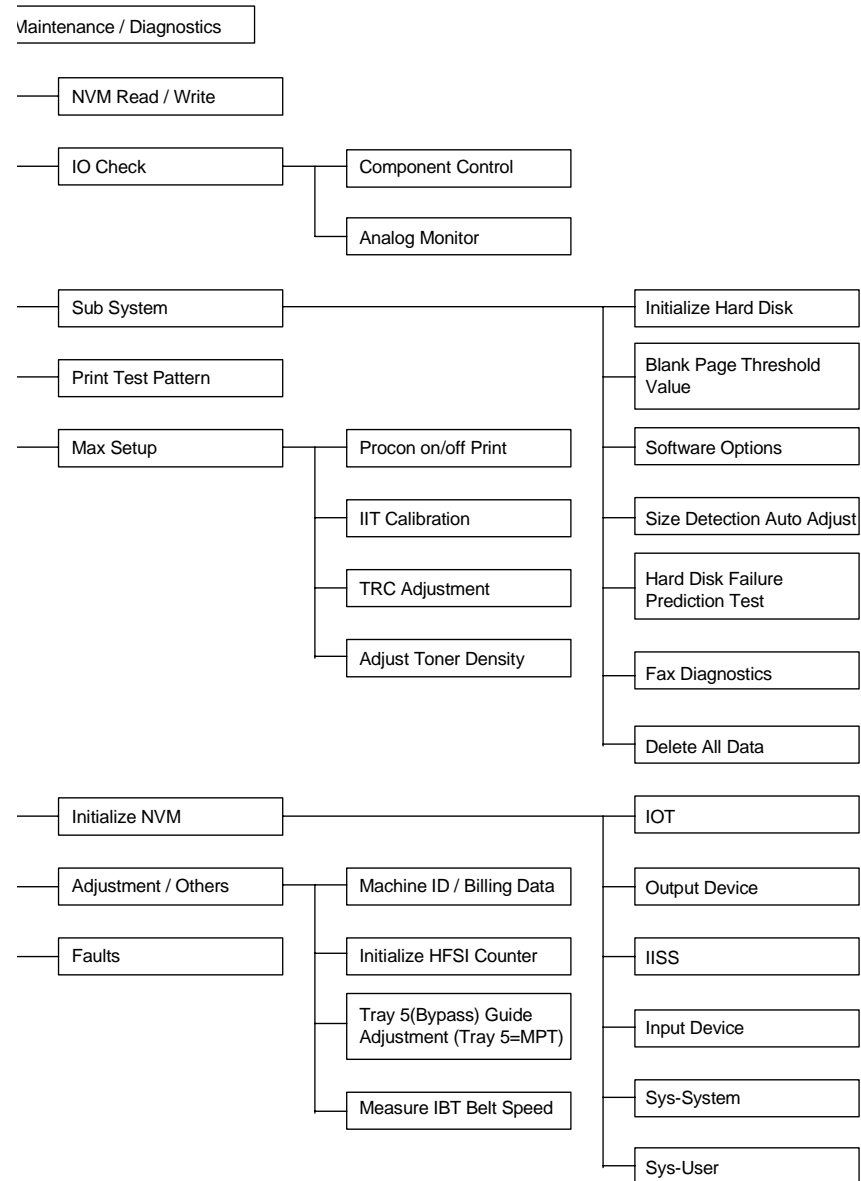
Access UI Diagnostics by following the procedures below.

Entering UI Diagnostics

- At the Control Panel, press and hold the **0** key for 5 seconds, then press the **Start** button while still pressing the 0 key.
The **CE Mode - Password Entry** screen will appear.
- Enter the Access Number 6789 and press **Confirm**.
The colors on the display are reversed to indicate that UI Diagnostics mode is active.

Accessing Diagnostic routines

- Press the **Log In/Out** button on the Control Panel.
- Select **System Settings**.
- Select **Common Settings**.
- Select **Maintenance/Diagnostics**.
- The following Diagnostics Routines can be accessed from the UI screen. (Figure 1)
 - NVM Read/Write
 - Follow the instructions on the screen. If one or more NVM locations is changed, the machine will reboot upon exit.
 - Component Control
 - Sub System
 - Initialize Hard Disk
 - Delete All Data
 - Software Options
 - Fax Diagnostics
 - Print Test Pattern
 - Max Setup
 - Procon on/off Print
 - IIT Calibration
 - TRC Adjustment
 - Adjust Toner Density
 - Initialize NVM
 - Adjustment / Others
 - Machine ID/Billing Data
 - Initialize HFSI Counter
 - Tray 5(Bypass) Guide Adjustment (Tray 5=MPT)
 - Measure IBT Belt Speed
 - Faults
 - IOT
 - Output Device
 - IISS
 - Input Device
 - Sys-System
 - Sys-User



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Figure 1 Maintenance/Diagnostics

Printing Service Reports

1. To access Service reports, follow the **Entering UI Diagnostics** procedure.
2. After entering the Access Number, press the **Machine Status** button on the Control Panel.
3. Select the **Billing Meter/Print Reports** tab on the display.
4. Press the **Print Reports/List** button.
5. Press the **CE** button.
6. The following reports can be printed.
 - Debug Log Report
 - HFSI Report
 - Jam Report
 - Shutdown Report
 - Failure Report
 - Protocol Monitor Report
7. Select the required report and press the Start button. The selected report will be printed.

Exiting UI Diagnostics

CAUTION

Ensure that the machine is not inadvertently left in UI Diagnostics.

There are three ways to exit from UI Diagnostics.

- Switch the power off and on.
- Perform the following:
 - Press **Close** to exit any of the service screens that were opened.
 - When the **System Settings** screen is displayed, press Exit.
 - When the reversed-color Copy Mode screen is displayed, press the **Start** button while the **0** key is pressed.
- If the **Restart** button is displayed on the screen, pressing the button will exit UI Diagnostics and restart the operation.

Jam Report

Purpose

To check the frequency of jams.

Print Contents

Perform following to print Jam Report

1. Enter UI Diagnostics (Entering UI Diagnostics).
2. Press the **Machine Status** button on the Control Panel.
3. Select the **Billing Meter/Print Reports** tab on the display.
4. Select the **Print Reports/List** button.
5. Select the **Jam Report** button.
6. Press the **Start** button to print Jam Report

Failure Report

Purpose

To display the frequency of failures.

Print Contents

Report Name: Failure Report

Perform following to print Failure Report.

1. Enter UI Diagnostics (Entering UI Diagnostics).
2. Press the **Machine Status** button on the Control Panel.
3. Select the **Billing Meter/Print Reports** tab on the display.
4. Select the **Print Reports/List** button.
5. Select the **Failure Report** button.
6. Press the **Start** button to print Failure Report.

Shutdown Report

Purpose

To output the history that was registered in advance.

Print Contents

Perform following to print Shutdown Report.

1. Enter UI Diagnostics (Entering UI Diagnostics).
2. Press the **Machine Status** button on the Control Panel.
3. Select the **Billing Meter/Print Reports** tab on the display.
4. Select the **Print Reports/List** button.
5. Select the **CE** button (may have to scroll down).
6. Select the **Shutdown Report** button.
7. Press the **Start** button to print Shutdown Report.

NVM Read/Write

Purpose

Reads, sets or changes the NVM data.

Procedure

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - b. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).
2. Select **Maintenance/Diagnostics**.
3. Select **NVM Read/Write**.

Reading NVM

1. Input Chain-Link number(6 digits) on **NVM Read/Write** screen.
2. Select **Confirm/Change**.
3. Current Value appears in **Current Value** column.

Writing NVM

1. Input New number in **New Value** column.
2. Select **Save**.
3. New number appears on **Current Value** column.

Table 1 Component VS Chain number

Component Item	IOT/IIT/Controller	Chain Number Allocation
I/O Port Protocol	Controller	770
Scan Service	Controller	770, 840
IOT	Controller	780
IIT	Controller	785
UI	Controller	790
Copy Service	Controller	790, 810
Print Service	Controller	800, 806
Fax Service	Controller	820, 823, 825
iFax Service	Controller	830
Diagnostics	Controller	870, 900

Table 1 Component VS Chain number

Component Item	IOT/IIT/Controller	Chain Number Allocation
ESS IF	IOT	740
Recycle	IOT	740
Billing	IOT	740
Drive	IOT	741
NOHAD	IOT	741
PH	IOT	740, 742, 760
EXIT	IOT	742, 764
Tray	IOT	742
Fuser	IOT	744
ROS	IOT	749
Process Control	IOT	751, 752, 753
Xero	IOT	751
CRU	IOT	751
Finisher	IOT	764
DADF	IIT	711
IISS (DADF)	IIT	710
IISS	IIT	715
IISS (Config)	IIT	719
Common	Controller	700
Meter Counter	Controller	720
Stored Data	Controller	731, 732, 733, 734

Table 1 Chain 740-xxx IOT Manager

Chain-Link	Name	Default	Range	Read/Write	Description
740-003	CycleDownTimer for SheetEmpty	0	0~5000	RW	Cycle Down Timer (in steps of 1ms) for the state in which Tray is empty. Timer measuring time from the time Tray becomes empty during printing to the start of Cycle Down. When having a failure or instructed to stop, the M/C immediately starts to cycle down without using this Timer.
740-004	IOT-PL Number	0	0~255	R	IOT-PL management number written in ROM built in CPU. At Power On, IOT-PL info is checked and stored in this NVM. 0-255: IOT-PL management number available
740-006	Comm Fail History ID	1	0~255	RW	Where to connect in the event of a fail: 0x00: Controller 0x01: No occurrence
740-007	Comm Fail History State	0	0~255	RW	Communication Fail Type 1: Send Queue NG 2: No ACK 3: Receive Queue Full
740-008	Comm Fail History Tx State	0	0~255	RW	Transmission status in the event of a fail: 0: Idling (waiting) 1: Sending Msg 2: Waiting for Ack to sent Msg 3: Waiting for Ack to sent Sync 4: Checking Send Queue after sending Msg
740-009	Comm Fail History Rx State	0	0~255	RW	Reception status in the event of a fail: 0: Idling (waiting) 1: Waiting for Msg Length 2: Waiting for ClientData/BCC 3: Waiting to receive Command to Establish Sync. 4: Finished receiving Msg 5: Finished receiving Command to Establish Sync.
740-010	Comm Fail History Uart Tx Use	0	0~255	RW	For what Physical Layer is used in the event of a fail: 0: Send physical layer used to send Msg 1: Send physical layer used to send Ack
740-011	Comm Fail History Rx Func Use	0	0~255	RW	How the M/C waits for a Receive Function in the event of a fail: 0: Clear the use of Receive Function 1: Set the use of Receive Function
740-012	FPGA Video Version	0	0~255	R	Version of FPGA Video Module
740-013	FPGA I/O Version	0	0~255	R	Version of FPGA I/O Module
740-014	Logic Fail Information	0	0~255	RW	Type 0-99: IM Type 100-: Library/DD-Num
740-015	Logic Fail Information	0	0~255	RW	Detail 1
740-016	Logic Fail Information	0	0~255	RW	Detail 2
740-017	Logic Fail Information	0	0~255	RW	Detail 3

Table 1 Chain 740-xxx IOT Manager

Chain-Link	Name	Default	Range	Read/Write	Description
740-018	M/C Type	-	0~255	R	M/C Type 0: 1MFrom/16KEEPROM 1: 2MFrom/64KEEPROM Set at Power ON and NVM Initialization.
740-019	Product Type	10	0~255	R	Product Identification MN/MNPL: 0 (unused) IBG: 10 (fixed)
740-020	Range Over Chain Link	0	0~255	RW	Memorizes Link (high byte) that was over the range in Reading at Power On.
740-021	Range Over Chain Link	0	0~255	RW	Memorizes Link (low byte) that was over the range in Reading at Power On.
740-022	Range Over Chain Link	0	0~255	RW	Memorizes abnormal value of Chain Link that was over the range in Reading at Power On. (higher bits in 1-byte data/2-byte data; highest bit in 4-byte data)
740-023	Range Over Chain Link	0	0~255	RW	Memorizes abnormal value of Chain Link that was over the range in Reading at Power On. (lower bits in 2-byte data; middle and higher bits in 4-byte data)
740-024	Range Over Chain Link	0	0~255	RW	Memorizes abnormal value of Chain Link that was over the range in Reading at Power On. (middle and lower bits in 4-byte data)
740-025	Range Over Chain Link	0	0~255	RW	Memorizes abnormal value of Chain Link that was over the range in Reading at Power On. (lowest bit in 4-byte data)
740-026	Range Over Chain Link	0	0~255	RW	a specified number (n) of Links that were over their ranges in Reading at Power On
740-027	Range Over Chain Link	0	0~255	RW	the number of Chain Links that were over their ranges in Reading at Power On
740-055	CRUM Mode Information	0	0~1	R	Stores how to control CRUM: 1: 3rd Party Mode (no communication with CRUM) any except 1: Xerox Mode (communication with CRUM)
740-056	CRUM Mode Switch	0	0~1	RW	Switch to change 3rd Party Mode to Xerox Mode 0: N/A 1: transfer to Xerox Mode
740-060	CRUM Comm Fail Information	0	0~255	RW	At what command CRUM Comm Fail occurred 0: No occurrence 1: at REQ RX Command 2: at ATTRIB Command 3: at CSPWD Command 4: Normally at Read/Write Command
740-061	Status Regi Information	0	0~255	RW	State of Status Register in the event of a CRUM Comm Fail The content of Register in the event of a fail is stored. NOTE: <i>However, the above is not applicable in the following cases: Data error internal to FIFO occurs: 0xFF will be stored. Data Length error occurs: 0xFE will be stored (applicable also when FIFOBL exceeds 35).</i>

Table 1 Chain 740-xxx IOT Manager

Chain-Link	Name	Default	Range	Read/Write	Description
740-062	CRUM ASIC Comm Fail Information	0	0~255	RW	What CRUM ASIC Comm Fail occurred: 0: No occurrence 1: WUP_REQ Busy Err 2: REQ_RX Busy Err 3: REQ_RX CRC Err 4: ATTRIB Busy Err 5: ATTRIB CRC Err 6: CSPWD Busy Err 7: CRPWD CRC Err 8: RSB Busy Err 9: RSB CRC Err 10: RMB Busy Err 11: RMB CRC Err 12: WSB Busy Err 13: WSB CRC Err 14: at I2C Write SDA Line not open 15: I2C Write No ACK 16: I2C Write No ACK 17: at I2C Read SDA Line not open 18: I2C Read No ACK
740-064	CRUM Deve Access Time Read/Write	5000	0~65535	RW	Max waiting time (ms) for CRUM R/W operation (ms) at Read/Write
740-065	CRUM Deve Access Time Write	3000	0~65535	RW	Waiting time (ms) before CRUM Write at Write Only
740-067	Non CRUM Drum Event	2	1~8	RW	Drum CRUM event to be reported in No CRUM mode 1: CRUM disconnected 2: the same CRUM 4: old CRUM 8: new CRUM
740-068	Non CRUM Toner Y Event	2	1~8	RW	Toner Y CRUM event to be reported in No CRUM mode 1: CRUM disconnected 2: the same CRUM 4: old CRUM 8: new CRUM
740-069	Non CRUM Toner M Event	2	1~8	RW	Toner M CRUM event to be reported in No CRUM mode 1: CRUM disconnected 2: the same CRUM 4: old CRUM 8: new CRUM
740-070	Non CRUM Toner C Event	2	1~8	RW	Toner C CRUM event to be reported in No CRUM mode 1: CRUM disconnected 2: the same CRUM 4: old CRUM 8: new CRUM
740-071	Non CRUM Toner K Event	2	1~8	RW	Toner K CRUM event to be reported in No CRUM mode 1: CRUM disconnected 2: the same CRUM 4: old CRUM 8: new CRUM

Table 1 Chain 740-xxx IOT Manager

Chain-Link	Name	Default	Range	Read/Write	Description
740-084	FPGA Video Version	0	0~65535	R	Version of FPGA Video Module
740-085	FPGA I/O Version	0	0~65535	R	Version of FPGA I/O Module

Chain 741-xxx Drive/MQ/NOHAD

Table 2 Drive/MQ/NOHAD

Chain-Link	Name	Default	Range	Description
741-001	DRUM/IBT MOTOR HIGH PULSE	20	0~40	Fine Adjustment of Drum/IBT Motor speed (standard) [Table No.]
741-002	DRUM/IBT MOTOR LOW PULSE	20	0~40	Fine Adjustment of Drum/IBT Motor speed (half speed) [Table No.]
741-003	DRUM/IBT MOTOR REVERSE TIME	20	0~40	Drum/IBT Motor Reverse Rotation Time [50msec]
741-004	MAIN MOTOR HIGH PULSE	9722	8736~10736	Fine Adjustment of Main Motor speed (standard) [division ratio]
741-005	MAIN MOTOR LOW PULSE	19476	17474~21474	Fine Adjustment of Main Motor speed (half speed) [division ratio]
741-006	DEVE MOTOR PULSE	20	0~40	Fine Adjustment of DEVE Motor speed [Table No.]
741-007	AUGER MOTOR PULSE	20	0~40	Fine Adjustment of Auger Motor speed [Table No.]
741-008	FUSER FAN DELAY TIME	1	0~120	Fuser Fan's delay in turning Off. [15sec]
741-009	REAR FAN DELAY TIME	1	0~120	Rear Fan's delay in turning Off. [15sec]
741-011	DEW MODE TEMPERATURE OF POWERON	12	0~30	Dew Mode Threshold Temperature [degree C]
741-012	DEW MODE TIME FOR POWERON	90	1~120	Dew Mode Time [min]
741-013	FUSER FAN FAIL BYPASS	0	0~1	FUSER FAN FAIL Prevention 0: Normal Mode 1: FAN FAIL Prevention
741-014	REAR FAN FAIL BYPASS	0	0~1	REAR FAN FAIL Prevention 0: Normal Mode 1: FAN FAIL Prevention
741-015	DEODORANT FILTER SW	0	0~1	Sets whether or not Deodorant Filter is present. 0: No Deodorant Filter 1: Deodorant Filter present
741-016	DEW MODE TEMPERATURE OF PRINT	14	0~30	Dew Mode Threshold Temperature at the start of print [degree C]
741-017	DEW MODE TIME FOR PRINT	60	15~180	How long Fan maintains its low-speed rotation in Dew Mode at the start of print [sec]
741-018	DRUM MOTOR DELAY TIME	130	1~255	DRUM MOTOR's delay in turning OFF corresponding to FPOT [10msec]

Table 2 Drive/MQ/NOHAD

Chain-Link	Name	Default	Range	Description
741-019	MAIN MOTOR HIGH PULSE	9742	8736~10736	Fine Adjustment of Main Motor speed (standard/heavy 1) [division ratio]
741-020	MAIN MOTOR HIGH PULSE	9742	8736~10736	Fine Adjustment of Main Motor speed (standard/label) [division ratio]
741-021	MAIN MOTOR LOW PULSE	19476	17474~21474	Fine Adjustment of Main Motor speed (half speed/heavy 2) [division ratio]
741-022	MAIN MOTOR LOW PULSE	19476	17474~21474	Fine Adjustment of Main Motor speed (half speed/label) [division ratio]
741-023	MAIN MOTOR LOW PULSE	19476	17474~21474	Fine Adjustment of Main Motor speed (half speed/transparency) [division ratio]
741-024	MAIN MOTOR LOW PULSE	19476	17474~21474	Fine Adjustment of Main Motor speed (half speed/plain paper) [division ratio]

Chain 742-xxx Paper Handling

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-001	ROS Write Position (All)	0	-25~25	0.2mm	RW	Base Adjustment of Side Regi in fast scan direction (affects all the trays/paper types/color modes)
742-002	ROS Write Position (Tray1/Plain Paper/Common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/plain paper/common)
742-003	ROS Write Position (Trays 1-3/heavy 1, coated 1/B)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/heavy 1, coated 1/B)
742-004	ROS Write Position (Trays 1-3/heavy 1, coated 1/color)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/heavy 1, coated 1/color)
742-005	ROS Write Position (Trays 1-3/heavy 2, coated 2/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/heavy 2, coated 2/common)
742-006	ROS Write Position (Trays 1-3/label/B)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/label/B)
742-007	ROS Write Position (Trays1-3/label/color)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/label/color)
742-008	ROS Write Position (Trays 1-3/transparency/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Trays 1-3/transparency/common)
742-009	ROS Write Position (MSI/plain paper/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/plain paper/common)
742-010	ROS Write Position (MSI/heavy 1, coated 1/B)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/heavy 1, coated 1/B)
742-011	ROS Write Position (MSI/heavy 1, coated 1/color)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/heavy 1, coated 1/color)
742-012	ROS Write Position (MSI/heavy 2, coated 2/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/heavy 2, coated 2/common)
742-013	ROS Write Position (MSI/label/B)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/label/B)
742-014	ROS Write Position (MSI/label/color)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/label/color)
742-015	ROS Write Position (MSI/transparency/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (MSI/transparency/common)
742-016	ROS Write Position (Duplex All/plain paper/common)	0	-25~25	1ms	RW	Side Regi ADJ in fast scan direction (Duplex All/plain paper/common)
742-017	ROS Write Position (Duplex All/heavy 1, coated 1/B)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Duplex All/heavy 1, coated 1/B)
742-018	ROS Write Position (Duplex, feed from Tray 1/plain/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan (Duplex, feed from Tray 1/plain paper/common)
742-019	ROS Write Position (Duplex, feed from Tray 2/plain/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan (Duplex, feed from Tray 2/plain paper/common)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-020	ROS Write Position (Duplex, feed from Tray 3/plain/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan (Duplex, feed from Tray 3/plain paper/common)
740-021	ROS Write Position (Duplex, feed from MSI/plain/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan (Duplex, feed from MSI/plain paper/common)
742-022	ROS Write Position (Tray 2/plain paper/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan direction (Tray2/plain paper/common)
742-023	ROS Write Position (Tray 3/plain paper/common)	0	-25~25	0.2mm	RW	Side Regi in fast scan direction (Tray 3/plain paper/common)
742-024	ROS Write Position (whole Tray Module/plain/common)	0	-25~25	0.2mm	RW	Side Regi ADJ in fast scan (whole Tray Module/plain paper/common)
742-031	Timing of Starting Registration Operation (All)	56	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (affects all the trays/paper types/color modes)
742-032	Timing of Starting Registration Operation (MSI/full speed/plain paper)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/full speed/plain paper)
742-033	Timing of Starting Registration Operation (MSI/full speed/heavy 1)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/full speed/heavy 1)
742-034	Timing of Starting Registration Operation (MSI/half speed/heavy 1)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/heavy 1, coated 1/color)
742-035	Timing of Starting Registration Operation (MSI/half speed/heavy 2)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/half speed/heavy 2)
742-036	Timing of Starting Registration Operation (MSI/full speed/label)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/full speed/label)
742-037	Timing of Starting Registration Operation (MSI/half speed/label)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/half speed/label)
742-038	Timing of Starting Registration Operation (MSI/half speed/transparency)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/half speed/transparency)
742-039	Timing of Starting Registration Operation (Trays 1-3/full speed/plain paper)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/full speed/plain paper)
742-040	Timing of Starting Registration Operation (Trays 1-3/full speed/heavy 1)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/full speed/heavy 1)
742-041	Timing of Starting Registration Operation (Trays 1-3/half speed/heavy 1)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/half speed/heavy 1)
742-042	Timing of Starting Registration Operation (Trays 1-3/half speed/heavy 2)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/half speed/heavy 2)
742-043	Timing of Starting Registration Operation (Trays 1-3/full speed/label)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/full speed/label)
742-044	Timing of Starting Registration Operation (Trays 1-3/half speed/label)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/half speed/label)
742-045	Timing of Starting Registration Operation (Trays 1-3/half speed/transparency)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/transparency/common)
742-046	Timing of Starting Registration Operation (Duplex/full speed/plain paper)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Duplex/full speed/plain paper)
742-047	Timing of Starting Registration Operation (Duplex/full speed/heavy 1)	80	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Duplex/full speed/heavy 1)
742-048	Timing of Starting Registration Operation (MSI/half speed/plain paper)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (MSI/half speed/plain paper)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-049	Timing of Starting Registration Operation (Trays 1-3/half speed/plain paper)	92	0~160	1mc	RW	Base Adjustment of Lead Regi in slow scan direction (Trays 1-3/half speed/plain paper)
742-055	Timing of Starting MSI Feed Control (MSI/full speed/plain) ('PH standard signal' to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting MSI Feed (full speed/plain paper)
742-056	Timing of Starting MSI Feed Control (MSI/full speed/non-plain) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting MSI Feed (full speed/any other than plain paper)
742-057	Timing of Starting MSI Feed Control (MSI/half speed/plain) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting MSI Feed (half speed/plain paper)
742-058	Timing of Starting MSI Feed Control (MSI/half speed/non-plain) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting MSI Feed (half speed/except plain paper)
742-059	Timing of Starting Tray Feed Control (Tray 1/full speed/B/8.5x11LEF-G) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (full speed/B/8.5x11LEF-G)
742-060	Timing of Starting Tray Feed Control (Tray 1/full speed/B/A4SEF-G~11x17SEF-G) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (full speed/B/A4SEF-G to 11x17SEF-G)
742-061	Timing of Starting Tray Feed Control (Tray 1/full/color/side A) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (full speed/color/side A)
742-062	Timing of Starting Tray Feed Control (Tray 1/full/color/side B) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (full speed/color/side B)
742-063	Timing of Starting Tray Feed Control (Tray 1/half speed/except transparency/B/8.5x11LEF-G) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/except transparency/B/8.5x11LEF-G)
742-064	Timing of Starting Tray Feed Control (Tray 1/half speed/except transparency/B/A4SEF-G~11x17SEF-G) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/except transparency/B/A4SEF-G to 11x17SEF-G)
742-065	Timing of Starting Tray Feed Control (Tray 1/half speed/except transparency/color/side A) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/except transparency/color/side A)
742-066	Timing of Starting Tray Feed Control (Tray 1/half speed/except transparency/color/side B) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/except transparency/color/side B)
742-067	Timing of Starting Tray Feed Control (Tray 1/half speed/transparency/B/side A) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/transparency/B/side A)
742-068	Timing of Starting Tray Feed Control (Tray 1/half speed/transparency/B/side B) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/transparency/B/side B)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-069	Timing of Starting Tray Feed Control (Tray 1/half speed/transparency/color/side A) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/transparency/color/side A)
742-070	Timing of Starting Tray Feed Control (Tray 1/half speed/transparency/color/side B) ("PH standard signal" to Feed Start)	10	-100~100	2ms	RW	Adjusts the timing of starting Tray 1 Feed (half speed/transparency/color/side B)
742-071	Timing of Starting Tray Feed Control (2TM Tray 2/full speed/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100	2ms	RW	Adjustment of Start Feed signal (2TM Tray 2)
742-072	Timing of Starting Tray Feed Control (2TM Tray 2/full speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-073	Timing of Starting Tray Feed Control (2TM Tray 2/full speed/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-074	Timing of Starting Tray Feed Control (2TM Tray 2/full speed/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-075	Timing of Starting Tray Feed Control (2TM Tray 2/half speed/except transparency/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-076	Timing of Starting Tray Feed Control (2TM Tray 2/half speed/except transparency/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-077	Timing of Starting Tray Feed Control (2TM Tray 2/half speed/except transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-078	Timing of Starting Tray Feed Control (2TM Tray 2/half speed/except transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-079	Timing of Starting Tray Feed Control (2TM Tray 2/transparency/B/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-080	Timing of Starting Tray Feed Control (2TM Tray 2/transparency/B/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-081	Timing of Starting Tray Feed Control (2TM Tray 2/transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-082	Timing of Starting Tray Feed Control (2TM Tray 2/transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-083	Timing of Starting Tray Feed Control (TTM Tray 2/full speed/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100	2ms	RW	Start Feed signal Adjustment (TTM Tray 2)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-084	Timing of Starting Tray Feed Control (TTM Tray 2/full speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-085	Timing of Starting Tray Feed Control (TTM Tray 2/full speed/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-086	Timing of Starting Tray Feed Control (TTM Tray 2/full speed/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-087	Timing of Starting Tray Feed Control (TTM Tray 2/half speed/except transparency/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-088	Timing of Starting Tray Feed Control (TTM Tray 2/half speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-089	Timing of Starting Tray Feed Control (TTM Tray 2/half speed/except transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-090	Timing of Starting Tray Feed Control (TTM Tray 2/half speed/except transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-091	Timing of Starting Tray Feed Control (TTM Tray 2/transparency/B/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-092	Timing of Starting Tray Feed Control (TTM Tray 2/transparency/B/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-093	Timing of Starting Tray Feed Control (TTM Tray 2/transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-094	Timing of Starting Tray Feed Control (TTM Tray 2/transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-095	Timing of Starting Tray Feed Control (2TM Tray 3/full speed/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100	2ms	RW	Start Feed signal Adjustment (2TM Tray 3)
742-096	Timing of Starting Tray Feed Control (2TM Tray 3/full speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-097	Timing of Starting Tray Feed Control (2TM Tray 3/full speed/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-098	Timing of Starting Tray Feed Control (2TM Tray 3/full speed/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-099	Timing of Starting Tray Feed Control (2TM Tray 3/half speed/except transparency/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-100	Timing of Starting Tray Feed Control (2TM Tray 3/half speed/except transparency/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-101	Timing of Starting Tray Feed Control (2TM Tray 3/half speed/except transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-102	Timing of Starting Tray Feed Control (2TM Tray 3/half speed/except transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-103	Timing of Starting Tray Feed Control (2TM Tray 3/transparency/B/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-104	Timing of Starting Tray Feed Control (2TM Tray 3/transparency/B/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-105	Timing of Starting Tray Feed Control (2TM Tray 3/transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-106	Timing of Starting Tray Feed Control (2TM Tray 3/transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-107	Timing of Starting Tray Feed Control (TTM Tray 3/full speed/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100	2ms	RW	Start Feed signal Adjustment (TTM Tray 3)
742-108	Timing of Starting Tray Feed Control (TTM Tray 3/full speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-109	Timing of Starting Tray Feed Control (TTM Tray 3/full speed/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-110	Timing of Starting Tray Feed Control (TTM Tray 3/full speed/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-111	Timing of Starting Tray Feed Control (TTM Tray 3/half speed/except transparency/B/8.5x11LEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-112	Timing of Starting Tray Feed Control (TTM Tray 3/half speed/B/A4SEF-G~11x17SEF-G) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-113	Timing of Starting Tray Feed Control (TTM Tray 3/half speed/except transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-114	Timing of Starting Tray Feed Control (TTM Tray 3/half speed/except transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-115	Timing of Starting Tray Feed Control (TTM Tray 3/transparency/B/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-116	Timing of Starting Tray Feed Control (TTM Tray 3/transparency/B/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-117	Timing of Starting Tray Feed Control (TTM Tray 3/transparency/color/side A) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-118	Timing of Starting Tray Feed Control (TTM Tray 3/transparency/color/side B) (Start Feed signal to Regi Clutch On signal)	10	-100~100		RW	ditto
742-119	Tray1 Feed Off Timing (full speed) (From #1 Feed Out Snr On)	0	-10~10	10ms	RW	Adjusts the timing of turning Off Feed Motor after #1 Feed Out SNR ON (full speed)
742-120	Tray 1 Feed Off Timing (half speed) (From #1 Feed Out Snr On)	0	-20~20	10ms	RW	Adjusts the timing of turning Off Feed Motor after #1 Feed Out SNR ON (half speed)
742-136	T/A CL ON Timing at Feed Adjustment (full speed) (Start MSI Feed signal)	0	-5~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from MSI. (full speed)
742-137	T/A CL ON Timing at Feed Adjustment (half speed) (Start MSI Feed signal)	0	-10~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from MSI. (half speed)
742-138	T/A CL ON Timing at Feed Adjustment (full speed) (from Start #1Feed signal)	0	-15~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from Tray 1. (full speed)
742-139	T/A CL ON Timing at Feed Adjustment (half speed) (from Start #1Feed signal)	0	-5~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from Tray 1. (half speed)
742-140	T/A CL ON Timing at Feed Adjustment (full speed) (from Start 2TM #2 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from 2TM Tray 2. (full speed)
742-141	T/A CL ON Timing at Feed Adjustment (half speed) (from Start 2TM #2 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from 2TM Tray 2 (half speed)
742-142	T/A CL ON Timing at Feed Adjustment (full speed) (from Start 2TM #3 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from 2TM Tray 3 (full speed)
742-143	T/A CL ON Timing at Feed Adjustment (half speed) (from Start 2TM #3 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from 2TM Tray 3 (half speed)
742-144	T/A CL ON Timing at Feed Adjustment (full speed) (from Start TTM #2 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from TTM Tray 2 (full speed)
742-145	T/A CL ON Timing at Feed Adjustment (half speed) (from Start TTM # 2Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from TTM Tray 2 (half speed)
742-146	T/A CL ON Timing at Feed Adjustment (full speed) (from Start TTM #3 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from TTM Tray 3 (full speed)
742-147	T/A CL ON Timing at Feed Adjustment (half speed) (from Start TTM #3 Feed signal)	0	-20~20	10ms	RW	Adjusts the timing of connecting Take Away Clutch after feed from TTM Tray 3 (half speed)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-148	T/A CL OFF Timing at Regi Loop Formation (MSI/full speed/plain paper) RegiSnrOn to TA Clutch Off	-6	-100~100	2ms	RW	Loop Amount Adjustment (MSI/full speed/plain paper)
742-149	T/A CL OFF Timing at Regi Loop Formation (MSI/full speed/heavy 1) RegiSnrOn to TA Clutch Off	-13	-100~100	2ms	RW	Loop Amount Adjustment (MSI/full speed/heavy 1)
742-150	T/A CL OFF Timing at Regi Loop Formation (MSI/half speed/heavy 1) RegiSnrOn to TA Clutch Off	-25	-100~100	2ms	RW	Loop Amount Adjustment (MSI/half speed/heavy 1)
742-151	T/A CL OFF Timing at Regi Loop Formation (MSI/half speed/heavy 2) RegiSnrOn to TA Clutch Off	-25	-100~100	2ms	RW	Loop Amount Adjustment (MSI/half speed/heavy 2)
742-152	T/A CL OFF Timing at Regi Loop Formation (MSI/full speed/label) RegiSnrOn to TA Clutch Off	-19	-100~100	2ms	RW	Loop Amount Adjustment (MSI/full speed/label)
742-153	T/A CL OFF Timing at Regi Loop Formation (MSI/half speed/label) RegiSnrOn to TA Clutch Off	-38	-100~100	2ms	RW	Loop Amount Adjustment (MSI/half speed/label)
742-154	T/A CL OFF Timing at Regi Loop Formation (MSI/half speed/transparency) RegiSnrOn to TA Clutch Off	-13	-100~100	2ms	RW	Loop Amount Adjustment (MSI/half speed/transparency)
742-155	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/full speed/plain paper) RegiSnrOn to TA Clutch Off	0	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/full speed/plain paper)
742-156	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/full speed/heavy 1) RegiSnrOn to TA Clutch Off	0	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/full speed/heavy 1)
742-157	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/ half speed/heavy 1) RegiSnrOn to TA Clutch Off	0	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/half speed/heavy 1)
742-158	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/ half speed/heavy 2) RegiSnrOn to TA Clutch Off	-24	-100~100	2ms	RW	Loop Amount Adjustment (Trays1-3/half speed/heavy 2)
742-159	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/full speed/label) RegiSnrOn to TA Clutch Off	-6	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/full speed/label)
742-160	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/ half speed/label) RegiSnrOn to TA Clutch Off	-13	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/half speed/label)
742-161	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/ half speed/transparency) RegiSnrOn to TA Clutch Off	0	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/half speed/transparency)
742-162	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/full speed/plain paper) (RegiClutchOn signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/full speed/plain paper)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-163	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/full speed/heavy 1) (RegiClutchOn signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/full speed/heavy 1)
742-164	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/half speed/heavy 1) (RegiClutchOn signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/half speed/heavy 1)
742-165	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/half speed/heavy 2) (RegiClutchOn signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/half speed/heavy 2)
742-166	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/full speed/label) (RegiClutchOn Signal ~TA Clutch On)	13	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/full speed/label)
742-167	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/half speed/label) (RegiClutchOn signal to TA Clutch On)	25	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/half speed/label)
742-168	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/half speed/transparency) (RegiClutchOn signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/half speed/transparency)
742-169	T/A CL OFF Timing (full speed/B) (From RegiSnrOff)	0	-50~100	1ms	RW	Adjusts the timing of stopping Take Away Clutch after Regi projection (full speed/B)
742-170	T/A CL OFF Timing (full speed/color) (From RegiSnrOff)	0	-50~100	1ms	RW	Adjusts the timing of stopping Take Away Clutch after Regi projection (full speed/color)
742-171	T/A CL OFF Timing (half speed/B) (From RegiSnrOff)	0	-50~100	1ms	RW	Adjusts the timing of stopping Take Away Clutch after Regi projection (half speed/B)
742-172	T/A CL OFF Timing (half speed/color) (From RegiSnrOff)	0	-50~100	1ms	RW	Adjusts the timing of stopping Take Away Clutch after Regi projection (half speed/color)
742-175	T/A CL OFF Timing at Regi Loop Formation (MSI/half speed/plain paper) RegiSnrOn to TA Clutch Off	-13	-100~100	2ms	RW	Loop Amount Adjustment (MSI/half speed/plain paper)
742-176	T/A CL OFF Timing at Regi Loop Formation (Trays 1-3/ half speed/plain paper) RegiSnrOn to TA Clutch Off	0	-100~100	2ms	RW	Loop Amount Adjustment (Trays 1-3/half speed/plain paper)
742-179	T/A CL ON Timing at Regi Projection (Trays 1-3, MSI/half speed/plain paper) (Regi Clutch On signal to TA Clutch On)	0	0~200	1ms	RW	Adjusts the timing of connecting Take Away Clutch after Regi Clutch ON (Trays 1-3, MSI/half speed/plain paper)
742-181	[TM] TA Clutch ON Timing (2TM)-in Full Speed mode	0	-75~75	2ms	RW	Adjusts time from Feed to the start of TA Clutch ON.
742-182	[TM] TA Clutch ON Timing (2TM) -half speed/except transparency	0	-75~75		RW	ditto
742-183	[TM] TA Clutch ON Timing (2TM) -half speed/in Transparency mode	0	-25~75		RW	ditto
742-184	[TM] TA Clutch ON Timing (TTM-Tray 2) -in Full Speed mode	0	-75~75		RW	ditto
742-185	[TM] TA Clutch ON Timing (TTM-Tray 2) -half speed/except transparency	0	-75~75		RW	ditto

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-186	[TM] TA Clutch ON Timing (TTM-Tray2) -half speed/in Transparency mode	0	-75~75		RW	ditto
742-187	[TM] TA Clutch ON Timing (TTM-Tray 3) -in Full Speed mode	0	-75~75		RW	ditto
742-188	[TM] TA Clutch ON Timing (TTM-Tray3) -half speed/except Transparency	0	-75~75		RW	ditto
742-189	[TM] TA Clutch ON Timing (TTM-Tray3) -half speed/in Transparency mode	0	-75~75		RW	ditto
742-190	[TM] TA Clutch OFF Timing (TM) at Arrival at Regi -in Full Speed mode	0	-100~100	2ms	RW	Adjusts time from F/O Snr #2 On to the start of TA Clutch Off. (Control of post-T/A pushing)
742-191	[TM] TA Clutch OFF Timing (TM) at Arrival at Regi -in Half Speed mode	0	-100~100		RW	ditto
742-192	[TM] Feed Stop OFF Timing (post-Regi pushing) -in Full Speed mode	0	0~30	1ms	RW	Adjusts time from Regi Clutch On (Feed Stop) to the start of TA Clutch On. (Clearance of post-T/A pushing)
742-193	[TM] Feed Stop OFF Timing (post-Regi pushing) -in Half Speed mode	0	0~30		RW	ditto
742-194	[TM] Wait TA Clutch OFF Timing(2TM) -in Full Speed mode	35	1~69	1ms	RW	Adjusts time from F/O Snr On to the start of TA Clutch Off. (Control of temporarily stopping T/A)
742-195	[TM] Wait TA Clutch OFF Timing(2TM) -in Half Speed mode	85	25~145		RW	ditto
742-196	[TM] Wait TA Clutch OFF Timing(TTM) -in Full Speed mode	30	2~60		RW	ditto
742-197	[TM] Wait TA Clutch OFF Timing(TTM) -in Half Speed mode	75	15~135		RW	ditto
742-198	Feed Stop OFF Timing (no preceding paper/2TM Tray 2) -in Full Speed mode	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-199	Feed Stop OFF Timing (no preceding paper/2TM Tray 2) -half speed/except transparency/B	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-200	Feed Stop OFF Timing (no preceding paper/2TM Tray 2) -half speed/except transparency/color	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-201	Feed Stop OFF Timing (no preceding paper/2TM Tray 2) -in Half Speed and Transparency mode	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A) ADJ Unit: 1[ms/step]
742-202	Feed Stop OFF Timing (no preceding paper/2TM Tray 3) -in Full Speed mode	0	-100~100	1ms	RW	Adjusts time Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A) ADJ Unit: 1[ms/step]
742-203	Feed Stop OFF Timing (no preceding paper/2TM Tray 3) -half speed/except transparency/B	0	-100~100	1ms	RW	Adjusts time from Tray 3 Feed to the start of TA Clutch ON (Clearance of temporarily stopping T/A) 1[ms/step] adjustment
742-204	Feed Stop OFF Timing (no preceding paper/2TM Tray 3) -half speed/except transparency/color	0	-100~100	1ms	RW	Adjusts Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A) ADJ Unit: 1[ms/step]
742-205	Feed Stop OFF Timing (no preceding paper/2TM Tray 3) -in Half Speed and Transparency mode	0	-100~100	1ms	RW	Adjusts Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-206	Feed Stop OFF Timing (no preceding paper/TTM Tray 2) -in Full Speed mode	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-207	Feed Stop OFF Timing (no preceding paper/TTM Tray 2) -half speed/except transparency/B	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-208	Feed Stop OFF Timing (no preceding paper/TTM Tray 2) -half speed/except transparency/color	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-209	Feed Stop OFF Timing (no preceding paper/TTM Tray 2) -in Half Speed and Transparency mode	0	-100~100	1ms	RW	Adjusts time from Tray 2 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-210	Feed Stop OFF Timing (no preceding paper/TTM Tray 3) -in Full Speed mode	0	-100~100	1ms	RW	Adjusts time from Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-211	Feed Stop OFF Timing (no preceding paper/TTM Tray 3) -half speed/except transparency/B	0	-100~100	1ms	RW	Starts time from Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-212	Feed Stop OFF Timing (no preceding paper/TTM Tray 3) -half speed/except transparency/color	0	-100~100	1ms	RW	Adjusts time from Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-213	Feed Stop OFF Timing (no preceding paper/TTM Tray 3) -in Half Speed and Transparency mode	0	-100~100	1ms	RW	Adjusts time from Tray 3 Feed to the start of TA Clutch ON. (Clearance of temporarily stopping T/A)
742-231	Timing of Stopping Registration Operation -full speed	76	0~246	1ms	RW	Adjusts the timing of stopping Regi Clutch after Regi projection. (full speed)
742-232	Timing of Stopping Registration Operation -half speed	76	0~246	2ms	RW	Adjusts the timing of stopping Regi Clutch after Regi projection (half speed)
742-233	Size-in-Feed-direction Detection Coefficient T1	0	-20~20	2ms	RW	Adjusts the parameter in the formula for detecting a size in feed direction
742-236	Paper Inverting Operation Timing of Stopping Forward Rotation (full speed/plain paper)	60	0~200	1ms	RW	Adjusts the timing of stopping the forward rotation to invert the paper after paper turns Off Exit Sensor 1. (plain paper)
742-237	Paper Inverting Operation Timing of Stopping Forward Rotation (full speed/heavy 1)	60	0~200	1ms	RW	Adjusts the timing of stopping the forward rotation to invert the paper after paper turns Off Exit Sensor 1. (heavy 1)
742-238	Paper Inverting Operation Timing of Starting Reverse Rotation (L<=216/Exit1)	100	0~200	1ms	RW	Adjusts the timing of starting to invert paper after Regi Clutch On for it. The paper waiting to be inverted is small-sized and will be output from Exit 1.
742-239	Paper Inverting Operation Timing of Starting Reverse Rotation (L<=216/Exit2, Side Tray)	100	0~200	1ms	RW	Adjusts the timing of starting to invert paper after Regi Clutch On for it. The paper waiting to be inverted is small-sized and will be output from Exit 2/Side Tray.
742-240	Paper Inverting Operation Timing of Adjusting Regi Loop (plain paper/L>216)	64	0~164	1ms	RW	Adjusts the timing of stopping Exit Motor after Regi Sensor ON, in correcting and controlling Duplex Regi Feed. (plain paper)
742-241	Paper Inverting Operation Timing of Adjusting Regi Loop (heavy 1/L>216)	64	0~164	1ms	RW	Adjusts the timing of stopping Exit Motor after Regi Sensor ON, in correcting and controlling Duplex Regi Feed. (heavy 1)
742-242	Paper Inverting Operation Timing of Starting Post-Regi Pushing (plain paper/L>216)	0	0~200	1ms	RW	Adjusts time from Regi Projection to Exit Motor On, in correcting and controlling Duplex Post-Regi-Projection Pushing. (plain paper)
742-243	Paper Inverting Operation Timing of Starting Post-Regi Pushing (heavy 1/L>216)	0	0~200	1ms	RW	Adjusts time from Regi Projection to Exit Motor On, in correcting and controlling Duplex Post-Regi-Projection Pushing (heavy 1)
742-244	Timing of Starting Duplex Transporting Operation (full speed)	30	0~60	10ms	RW	Timing of turning On Duplex Motor to pull in paper to invert it (Exit2 Motor CCW On to Duplex Motor On) ADJ Unit: 10 [ms/step]

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-245	Timing of Temporarily Stopping Duplex Transporting Operation (color/L<=216mm)	87	0~174	1.5ms	RW	Timing of turning Off Duplex Motor to stop paper at the Wait Station (Duplex Wait Sensor ON to Duplex Motor OFF)
742-246	Timing of Starting Duplex Feed Operation (Exit1/color/L<=216mm)	67	0~134	1.5ms	RW	Timing of turning On Duplex Motor to restart feeding paper
742-247	Duplex Regi Loop Adjustment Timing (plain paper)	43	0~110	1.5ms	RW	Loop Amount Adjustment (Dup/plain paper) Time from Regi Snr On to Dup Motor Off
742-248	Duplex Regi Loop Adjustment Timing (heavy 1)	43	0~110	1.5ms	RW	Loop Amount Adjustment (Dup/heavy 1) Time from Regi Snr On to Dup Motor Off
742-249	Timing of Starting Duplex Post-Regi Pushing (plain paper)	0	0~134	1.5ms	RW	Adjusts the timing of activating Duplex Motor for Regi projection. (Dup/plain paper/common)
742-250	Timing of Starting Duplex Post-Regi Pushing (heavy 1)	0	0~134	1.5ms	RW	Adjusts the timing of activating Duplex Motor for Regi projection (Dup/heavy 1, coated 1/B)
742-251	Timing of Starting Duplex Post-Regi Pushing (L<=216)	20	0~40	10.5ms	RW	Adjusts the timing of stopping Duplex Motor after Regi projection (small size)
742-252	Timing of Starting Duplex Post-Regi Pushing (L>216)	20	0~40	10.5ms	RW	Adjusts the timing of stopping Duplex Motor after Regi projection (large size)
742-261	OCT Operation Limit	0	0~1		RW	BAM 0: Operation permitted 1: Operation prohibited
742-262	Timing of Starting OCT Initializing Operation	30	0~60	10ms	RW	Adjusts the timing of starting to initialize OCT. (From Regi Start to #2Offset Motor Homing On)
742-263	Timing of Starting Offset Operation (full speed/L<=216)	23	0~30	10ms	RW	Adjusts the timing of starting Offset Operation. (full speed/L<=216) (From Exit2 Snr Off to Offset Motor On)
742-264	Timing of Starting Offset Operation (full speed/L>216)	0	0~30	10ms	RW	Adjusts the timing of starting Offset Operation. (full speed/L>216) (From Exit Snr2 Off to Offset Motor On)
742-265	Timing of Starting Offset Operation (half speed/L<=216)	30	0~40	20ms	RW	Adjusts the timing of starting Offset Operation. (half speed/L<=216) (From Exit2 Snr Off to Offset Motor On)
742-266	Timing of Starting Offset Operation (half speed/L>216)	0	0~30	20ms	RW	Adjusts the timing of starting Offset Operation. (half speed/L>216) (From Exit Snr2 Off to Offset Motor On)
742-267	Timing of Starting Return Operation (full speed/L<=216)	15	0~60	10ms	RW	Adjusts the timing of starting Return-to-Offset Operation. (full speed/L<=216) (From Exit2 Snr Off to Offset Motor On)
742-268	Timing of Starting Return Operation (full speed/L>216)	15	0~60	10ms	RW	Adjusts the timing of starting Return-to-Offset Operation. (full speed/L>216) (From Exit Snr2 Off to Offset Motor On)
742-269	Timing of Starting Return Operation (half speed/L<=216)	17	0~60	20ms	RW	Adjusts the timing of starting Return-to-Offset Operation. (half speed/L<=216) (From Exit2 Snr Off to Offset Motor On)
742-270	Timing of Starting Return Operation (half speed/L>216)	17	0~60	20ms	RW	Adjusts the timing of starting Return-to-Offset Operation. (half speed/L>216) (From Exit Snr2 Off to Offset Motor On)
742-271	Limit on Countermeasure against Condensation	0	0~1		RW	Sets whether or not to rotate #2 Exit Drive Motor in outputting paper from #1Exit in Simplex mode. 0: enabled 1: disabled
742-272	Timing of Starting Countermeasure Operation against Condensation	1	1~250	1ñá	RW	Timing of starting to rotate #2 Exit Drive Motor; Adjusts the number of a series of sheets for which the countermeasure against condensation is intended, in order to start the control.

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-273	Timing of Finishing Countermeasure Ope against Condensation (full speed)	14	0~50	100ms	RW	Timing of stopping Exit 2 Motor after Exit Sensor 1Off (full speed)
742-274	Timing of Finishing Countermeasure Ope against Condensation (half speed)	27	0~50	100ms	RW	Timing of stopping Exit 2 Motor after Exit Sensor 1Off (half speed)
742-281	MSI-Feed Paper Qty	0	0~1500000		R	It is time to replace the periodic replacement part: TA Roll
742-282	Tray 1- Feed Paper Qty	0	0~1500000		R	It is time to replace the periodic replacement part: TA Roll
742-283	Tray 2-Feed Paper Qty	0	0~600000		R	It is time to replace periodic replacement parts: Nudger/Feed/Retard Roll
742-284	Tray 3-Feed Paper Qty	0	0~600000		R	It is time to replace periodic replacement parts: Nudger/Feed/Retard Roll
742-285	Qty of Tray 1 Lifter Adjustments	0	0~100		R	Counts Tray 1 Lifter adjustments. Every time Lifter is adjusted after it lifts up, 1 is added. (for reference)
742-286	Tray 1 Lift Up Time	0	0~3000		R	Stores Tray 1 Lift Up time. (for reference)
742-287	Tray 2 Lift Up Time	0	0~15000		R	Stores Tray 2 Lift Up time. (for reference)
742-288	Tray 3 Lift Up Time	0	0~15000		R	Stores Tray 3 Lift Up time. (for reference)
742-289	Count Coefficient for Remaining Paper Qty Detection (Tray 1) (Remaining Qty Correction Time in adjusting Lifter)	30	0~100	1ms	RW	Coefficient for detecting and calculating what quantity of paper remains in Tray 1. (time taken to adjust Lifter)
742-290	Count Coefficient for Remaining Paper Qty Detection (2TM-Tray 2) (Remaining Qty Correction Time in adjusting Lifter)	30	0~100	1ms	RW	Coefficient for detecting and calculating what quantity of paper remains in 500-sheet Tray. (time taken to adjust Lifter)
742-291	Count Coefficient for Remaining Paper Qty Detection (2TM-Tray 3) (Remaining Qty Correction Time in adjusting Lifter)	30	0~100	1ms	RW	Coefficient for detecting and calculating what quantity of paper remains in 500-sheet Tray. (time taken to adjust Lifter)
742-292	Count Coefficient for Remaining Paper Qty Detection (TTM-Tray 2) (Remaining Qty Correction Time in adjusting Lifter)	34	0~100	1ms	RW	Coefficient for detecting and calculating what quantity of paper remains in TTM Tray 2. (time taken to adjust Lifter)
742-293	Count Coefficient for Remaining Paper Qty Detection (TTM-Tray 3) (Remaining Qty Correction Time in adjusting Lifter)	34	0~100	1ms	RW	Coefficient for detecting and calculating what quantity of paper remains in TTM Tray 3. (time taken to adjust Lifter)
742-294	MSI Size Guide minimum position	963	904~1023		RW	Stores min. data in correcting Size Sensor.
742-295	MSI Size Guide maximum position	194	0~258		RW	Stores max. data in correcting Size Sensor.
742-301	OHP Sensor PWM default value (at Power On)	1000	0~1000	0.1%	RW	Default to execute auxiliary operation that controls variations in OHP Sensor. (used with Power On)
742-302	OHP Sensor Correction Operation standard value	1000	0~1000	0.1%	RW	Default to execute auxiliary operation that controls variations in OHP Sensor
742-303	OHP Sensor target value	155	60~330	1	RW	Adjusts threshold to correct OHP PWM output value in OHP correction operation.
742-304	Sampling Qty (in OHP correction operation)	2	1~5	2	RW	Adjusts how many samples of OHP Sensor Value to take in OHP correction operation.
742-305	Sampling Qty (detection of paper type)	10	1~20	1	RW	Adjusts how many samples of OHP Sensor Value to take in detecting paper type.
742-306	Delay in sampling (in OHP correction operation)	3	1~10	1ms	RW	Adjusts how long to delay sampling OHP Sensor value after PWM output in OHP correction operation.

Table 3 Paper Handling

Chain-Link	Name	Default	Range	Step (mm)	Read/Write	Description
742-307	OHP Sensor PWM Step	1	1~30	0.1%	RW	Adjusts in steps of what amount OHP Sensor PWM Output should be decreased.
742-308	Timing of Starting Paper Type Detection (full speed)	95	0~255	1ms	RW	Timing of starting paper type detection after Regi Clutch ON (full speed)
742-309	Timing of Starting Paper Type Detection (half speed)	95	0~255	2ms	RW	Timing of starting paper type detection after Regi Clutch ON (half speed)
742-310	Threshold for Judging Paper Type	620	0~1023	1	RW	Adjusts threshold used to judge paper to be transparent in paper type detection.
742-311	OHP Sensor Fail Judgment Value	125	0~200	0.5%	RW	Adjusts, in OHP correction operation, value used to judge from OHP PWM output that OHP Sensor failed.
742-312	Timing of Detecting OHP Sensor Fail	40	0~90	10ms	RW	Adjusts the timing of trying to detect OHP Sensor Fail.
742-314	OHP Sensor Standard Value Adjustment Range	20	1~250	0.1%	RW	Value used to adjust standard value in OHP correction operation
742-319	No Paper Run & Jam Bypass	0	0~15		RW	0: Normal mode 1: Jam Bypass 2: No Paper Run 3: Check IBT
742-320	Selecting where to output Test Print	0	0~4		RW	Switch where to output Test Print 0: Face Down Tray #1 / Finisher Stacker 1: Face Down Tray #2 2: Face Up Tray
742-321	Selecting whether/how to offset-output Test Print	0	0~2		RW	Offset selection 0: No Offset 1: Front Offset 2: Rear Offset Applies only when Output Tray is Face Down Tray #2
742-322	Component Control Feed /Lift Up Motor Speed (all the trays)	17	0~17		RW	Specifies the speed of Feed/Lift Up Motor in Component Control.
742-323	Pre Feed SNR ON Jam Timer (all the trays)	0	-20~20	10ms	RW	Jam Timer Value Adjustment
742-324	Feed Out SNR ON Jam Timer (all the trays)	0	-30~30	10ms	RW	Jam Timer Value Adjustment

Chain 744-xxx FUSER

Table 4 Fuser

Chain-Link	Name	Default	Range	Step	Read/Write	Description
744-001	Control Temperature in Low Power Mode	140	0~200	1 deg C	RW	Target temperature of NCS-Center in Low Power Mode
744-004	Failure Detection Flag	0	0~3		RW	0: Normal 1: Abnormal high temp of NCS-Center detected 2: Abnormal high temp of STS-Front detected 3: Abnormal temp of NCS/STS
744-005	Abnormal-Amplified-Difference Detection Flag	0	0~1		RW	0: Normal 1: Abnormal amplified difference detected
744-008	Ready Temperature 1	150	100~200	1 deg C	RW	
744-009	Ready Temperature 2	165	100~200	1 deg C	RW	
744-010	Standby Temperature	175	100~200	1 deg C	RW	

Table 4 Fuser

Chain-Link	Name	Default	Range	Step	Read/Write	Description
744-111	B/W Plain Paper SEF Setup Temperature	5	0~5		RW	Control Table No. 0: 1-1 1: 1-2 2: 1-3 3: 2-1 4: 2-2 5: 2-3
744-112	B/W Heavy 1 SEF Setup Temperature	1	0~2		RW	Control Table No. 0: 3-1 heavy 1 (setup temp-low) 1: 3-2 heavy 1 (standard) 2: 3-3 heavy 1 (setup temp-high)
744-113	B/W Heavy 2 SEF Setup Temperature	2	0~2		RW	Control Table No. 0: 4-1 1: 4-2 2: 4-3
744-114	F/C Plain Paper SEF Setup Temperature	5	0~5		RW	Control Table No. 0: 6-1 1: 6-2 2: 6-3 3: 7-1 4: 7-2 5: 7-3
744-115	F/C Heavy 1 SEF Setup Temperature	1	0~2		RW	Control Table No. 0: 8-1 heavy 1 (setup temp-low) 1: 8-2 heavy 1 (standard) 2: 8-3 heavy 1 (setup temp-high)
744-116	F/C Heavy 2 SEF Setup Temperature	2	0~2		RW	Control Table No. 0:9-1, 1:9-2, 2:9-3
744-125	Environment Temp Correction Coefficient	5	0~5		RW	Max. correction temp based on Environment Sensor-detected temp 0: No correction 1: 2 degrees C 2: 4 degrees C 3: 6 degrees C 4: 8 degrees C 5: 10 degrees C
744-127	Environment Correction Operating Temp	35	20~50	1 deg C	RW	Reads Environment Sensor temp if NCS-Center temp equals or is lower than NVM value.
744-139	Temp Shift Time at Power On	15	0~30	1min	RW	Time taken to increase 5 degrees C at Power On
744-140	Individual Action mode for Plain Paper BW Mode Poor Fusing	0	0~1		RW	0: Individual action OFF 1: Individual action ON
744-141	Individual Action mode for Poor Fusing: Shift Temp	2	0~10		RW	Shift temp in relation to Run temp
744-181	Condensation Prevention Mode	0	0~15	1min	RW	how long to wait since the attainment of Ready Temp in Condensation Prevention mode
744-196	Fine Adjustment of Fuser Mot Speed: plain paper	10292	9770~11172		RW	158mm/s (-1.2%)
744-197	Fine Adjustment of Fuser Mot Speed: heavy 1 B/W	10292	9770~11172		RW	158mm/s (-1.2%)
744-198	Fine Adjustment of Fuser Mot Speed: heavy 1 F/C	20480	19540~22344		RW	79mm/s (-0.7%)

Table 4 Fuser

Chain-Link	Name	Default	Range	Step	Read/Write	Description
744-199	Fine Adjustment of Fuser Mot Speed: heavy 2	20376	19540~22344		RW	79mm/s (-0.2%)
744-200	Fuser Mot Off Time	200	0~255	10msec	RW	Detects Exit SNR OFF.
744-201	Fuser Mot Off Time half speed	82	0~255	10msec	RW	Detects Exit SNR OFF.
744-266	Fine Adjustment of Fuser Mot Speed coated paper 1 B/W	10235	9770~11172		RW	158mm/s(-0.7%)
744-267	Fine Adjustment of Fuser Mot Speed coated paper 1 F/C	20440	19540~22344		RW	79mm/s(-0.5%)

Chain 746-xxx Chain 747-xxx Xfer

Table 5 Xfer

Chain-Link	Name	Default	Range	Description
746-001	Environment control execution switch	1	0~1	Environment control execution switch
746-002	Compulsory designated environment NO	5	0~9	Compulsory designated environment NO
746-003	The relative temperature threshold value to specify environment NO. #0	22	0~100	The relative temperature threshold value to specify environment NO. #0
746-004	absolute humidity AH threshold value to specify environment NO. #0	3	0~20	absolute humidity AH threshold value to specify environment NO. #0
746-005	Storage of calculated value of absolute humidity	10	0~255	Stores a calculated value of absolute humidity.
746-006	Storage of selected Environment No.	5	0~9	Stores a selected Environment No.
746-007	1st BTR On Timing	60	0~200	1st BTR On Timing
746-008	1st BTR Output changeover Timing (Y->M->C)	45	0~200	1st BTR Output changeover Timing (Y->M->C)
746-009	1st BTR Output changeover Timing (full->half)	0	0~50	1st BTR Output changeover Timing (full->half)
746-010	1st BTR Off Timing (full)	56	0~200	1st BTR Off Timing (full Speed)
746-011	1st BTR Off Timing (half)	464	300~550	1st BTR Off Timing (halfSpeed)
746-012	The amount of a film compensation electric current	2	0~20	The amount of a film compensation electric current
746-013	A film decreases, compensation electric current calculation result storage	0	0~255	A film decreases, compensation electric current calculation result storage
746-014	1st BTR Mode environment revise (BW_Side1)	100	0~200	1st BTR Mode environment revise (BW_Side1)
746-015	1st BTR Mode environment revise (BW_Side2)	100	0~200	1st BTR Mode environment revise (BW_Side2)
746-016	1st BTR Mode environment revise (FC_Side1)	100	0~200	1st BTR Mode environment revise (FC_Side1)
746-017	1st BTR Mode environment revise (FC_Side2)	100	0~200	1st BTR Mode environment revise (FC_Side2)
746-018	1st BTR Halfspeed time output compensation coefficient	50	0~200	1st BTR Halfspeed time output compensation coefficient
746-020	1st BTR Environment compensation coefficient NotUsually (environment NO.1-3_K)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.1-3_K)
746-021	1st BTR Environment compensation coefficient NotUsually (environment NO.4-6_K)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.4-6_K)
746-022	1st BTR Environment compensation coefficient NotUsually (environment NO.7_K)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.7_K)
746-023	1st BTR Environment compensation coefficient NotUsually (environment NO.8-9_K)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.8-9_K)
746-024	1st BTR Environment compensation coefficient NotUsually (environment NO.0_YMC)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.0_YMC)

Table 5 Xfer

Chain-Link	Name	Default	Range	Description
746-025	1st BTR Environment compensation coefficient NotUsually (environment NO.1-3_YMC)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.1-3_YMC)
746-026	1st BTR Environment compensation coefficient NotUsually (environment NO.4-6_YMC)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.4-6_YMC)
746-027	1st BTR Environment compensation coefficient NotUsually (environment NO.7_YMC)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.7_YMC)
746-028	1st BTR Environment compensation coefficient NotUsually (environment NO.8-9_YMC)	100	0~200	1st BTR Environment compensation coefficient NotUsually (environment NO.8-9_YMC)
746-029	1st BTR Environment compensation coefficient (Full_environment NO.0_K_Side1)	150	0~200	1st BTR Environment compensation coefficient (Full_environment NO.0_K_Side1)
746-30	1st BTR Environment compensation coefficient (Full_environment NO.1-3_K_Side1)	120	0~200	1st BTR Environment compensation coefficient (Full_environment NO.1-3_K_Side1)
746-031	1st BTR Environment compensation coefficient (Full_environment NO.4-6_K_Side1)	110	0~200	1st BTR Environment compensation coefficient (Full_environment NO.4-6_K_Side1)
746-032	1st BTR Environment compensation coefficient (Full_environment NO.7_K_Side1)	120	0~200	1st BTR Environment compensation coefficient (Full_environment NO.7_K_Side1)
746-033	1st BTR Environment compensation coefficient (Full_environment NO.8-9_K_Side1)	150	0~200	1st BTR Environment compensation coefficient (Full_environment NO.8-9_K_Side1)
746-034	1st BTR Environment compensation coefficient (Full_environment NO.0_YMC)	100	0~200	1st BTR Environment compensation coefficient (Full_environment NO.0_YMC)
746-035	1st BTR Environment compensation coefficient (Full_environment NO.1-3_YMC)	100	0~200	1st BTR Environment compensation coefficient (Full_environment NO.1-3_YMC)
746-036	1st BTR Environment compensation coefficient (Full_environment NO.4-6_YMC)	100	0~200	1st BTR Environment compensation coefficient (Full_environment NO.4-6_YMC)
746-037	1st BTR Environment compensation coefficient (Full_environment NO.7_YMC)	100	0~200	1st BTR Environment compensation coefficient (Full_environment NO.7_YMC)
746-038	1st BTR Environment compensation coefficient (Full_environment NO.8-9_YMC)	100	0~200	1st BTR Environment compensation coefficient (Full_environment NO.8-9_YMC)
746-039	1st BTR Environment compensation coefficient (Full_environment NO.0_K_Side2)	160	0~200	1st BTR Environment compensation coefficient (Full_environment NO.0_K_Side2)
746-040	1st BTR Environment compensation coefficient (Full_environment NO.1-3_K_Side2)	110	0~200	1st BTR Environment compensation coefficient (Full_environment NO.1-3_K_Side2)
746-041	1st BTR Environment compensation coefficient (Full_environment NO.4-6_K_Side2)	120	0~200	1st BTR Environment compensation coefficient (Full_environment NO.4-6_K_Side2)
746-042	1st BTR Environment compensation coefficient (Full_environment NO.7_K_Side2)	130	0~200	1st BTR Environment compensation coefficient (Full_environment NO.7_K_Side2)
746-043	1st BTR Environment compensation coefficient (Full_environment NO.8-9_K_Side2)	160	0~200	1st BTR Environment compensation coefficient (Full_environment NO.8-9_K_Side2)
746-044	1st BTR Environment compensation coefficient (Half_environment NO.0_K_Side1)	150	0~200	1st BTR Environment compensation coefficient (Half_environment NO.0_K_Side1)
746-045	1st BTR Environment compensation coefficient (Half_environment NO.1-3_K_Side1)	120	0~200	1st BTR Environment compensation coefficient (Half_environment NO.1-3_K_Side1)
746-046	1st BTR Environment compensation coefficient (Half_environment NO.4-6_K_Side1)	110	0~200	1st BTR Environment compensation coefficient (Half_environment NO.4-6_K_Side1)

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Chain-Link	Name	Default	Range	Description
746-047	1st BTR Environment compensation coefficient (Half_environment NO.7_K_Side1)	120	0~200	1st BTR Environment compensation coefficient (Half_environment NO.7_K_Side1)
746-048	1st BTR Environment compensation coefficient (Half_environment NO.8-9_K_Side1)	150	0~200	1st BTR Environment compensation coefficient (Half_environment NO.8-9_K_Side1)
746-049	1st BTR Environment compensation coefficient (Half_environment NO.0_YMC)	100	0~200	1st BTR Environment compensation coefficient (Half_environment NO.0_YMC)
746-050	1st BTR Environment compensation coefficient (Half_environment NO.1-3_YMC)	100	0~200	1st BTR Environment compensation coefficient (Half_environment NO.1-3_YMC)
746-051	1st BTR Environment compensation coefficient (Half_environment NO.4-6_YMC)	100	0~200	1st BTR Environment compensation coefficient (Half_environment NO.4-6_YMC)
746-052	1st BTR Environment compensation coefficient (Half_environment NO.7_YMC)	100	0~200	1st BTR Environment compensation coefficient (Half_environment NO.7_YMC)
746-053	1st BTR Environment compensation coefficient (Half_environment NO.8-9_YMC)	100	0~200	1st BTR Environment compensation coefficient (Half_environment NO.8-9_YMC)
746-054	1st BTR Environment compensation coefficient (Half_environment NO.0_K_Side2)	160	0~200	1st BTR Environment compensation coefficient (Half_environment NO.0_K_Side2)
746-055	1st BTR Environment compensation coefficient (Half_environment NO.1-3_K_Side2)	110	0~200	1st BTR Environment compensation coefficient (Half_environment NO.1-3_K_Side2)
746-056	1st BTR Environment compensation coefficient (Half_environment NO.4-6_K_Side2)	120	0~200	1st BTR Environment compensation coefficient (Half_environment NO.4-6_K_Side2)
746-057	1st BTR Environment compensation coefficient (Half_environment NO.7_K_Side2)	130	0~200	1st BTR Environment compensation coefficient (Half_environment NO.7_K_Side2)
746-058	1st BTR Environment compensation coefficient (Half_environment NO.8-9_K_Side2)	160	0~200	1st BTR Environment compensation coefficient (Half_environment NO.8-9_K_Side2)
746-059	1st BTR Final output storage _Y color (Side1)	0	0~800	1st BTR Final output storage _Y color (Side1)
746-060	1st BTR Final output storage _M color (Side1)	0	0~800	1st BTR Final output storage _M color (Side1)
746-061	1st BTR Final output storage _C color (Side1)	0	0~800	1st BTR Final output storage _C color (Side1)
746-062	1st BTR Final output storage _K color (Side1)	0	0~800	1st BTR Final output storage _K color (Side1)
746-063	1st BTR Final output storage _Y color (Side2)	0	0~800	1st BTR Final output storage _Y color (Side2)
746-064	1st BTR Final output storage _M color (Side2)	0	0~800	1st BTR Final output storage _M color (Side2)
746-065	1st BTR Final output storage _C color (Side2)	0	0~800	1st BTR Final output storage _C color (Side2)
746-066	1st BTR Final output storage _K color (Side2)	0	0~800	1st BTR Final output storage _K color (Side2)
746-067	Chosen 1st BTR standard output storage	0	0~800	Chosen 1st BTR standard output storage
746-068	IBT belt cleaning extension execution SW after Procon SetUp in Job	0	0~2	SW that enables extending the cleaning of IBT Belt after ProCon Setup with Job in progress 0: Disabled 1: Enabled in B mode only 2: Enabled in all the modes (including Full Color Mode)
746-069	Flag at IBT belt cleaning extension time	0	0~1	IBT Belt Cleaning Extension Time flag 0: 1 cycle of belt (3737msec) 1: 2 cycles of belt (7474msec)
746-080	2nd BTR fixed standard output V alpha Side1	200	0~600	2nd BTR fixed standard output Vout(Side1)
746-081	2nd BTR fixed standard output V alpha Side2	200	0~600	2nd BTR fixed standard output Vout(Side2)
746-088	2nd BTR output is changed only to the tip.(half speed heavy paper BW)	150	0~500	2nd BTR output is changed only to the tip.(half speed heavy paper BW)

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Chain-Link	Name	Default	Range	Description
746-089	2nd BTR output is changed only to the tip.(half speed heavy paper FC)	150	0~500	2nd BTR output is changed only to the tip.(half speed heavy paper FC)
746-090	2nd BTR output is changed only to the tip.(half speed film paper BW)	150	0~500	2nd BTR output is changed only to the tip.(half speed film paper BW)
746-091	2nd BTR output is changed only to the tip.(half speed film paper FC)	150	0~500	2nd BTR output is changed only to the tip.(half speed film paper FC)
746-092	2nd BTR output is changed only to the tip.(half speed coat paper BW)	150	0~500	2nd BTR output is changed only to the tip.(half speed coat paper BW)
746-093	2nd BTR output is changed only to the tip.(half speed coat paper FC)	150	0~500	2nd BTR output is changed only to the tip.(half speed coat paper FC)
746-095	2nd BTR output is changed only to the tip.(half speed usually paper FC)	150	0~500	2nd BTR output is changed only to the tip.(half speed usually paper FC)
746-096	2nd BTR output is changed only to the tip.(full speed usually paper BW)	0	0~500	2nd BTR output is changed only to the tip.(full speed usually paper BW)
746-097	2nd BTR output is changed only to the tip.(full speed usually paper FC)	0	0~500	2nd BTR output is changed only to the tip.(full speed usually paper FC)
746-098	2nd BTR output is changed only to the tip.(full speed heavy paper BW)	0	0~500	2nd BTR output is changed only to the tip.(full speed heavy paper BW)
746-099	2nd BTR output is changed only to the tip.(full speed coat paper BW)	0	0~500	2nd BTR output is changed only to the tip.(full speed coat paper BW)
746-100	2nd BTR Mode environment revise (BW_Side1)	100	0~200	2nd BTR Mode environment revise (BW_Side1)
746-101	2nd BTR Mode environment revise (BW_Side2)	100	0~200	2nd BTR Mode environment revise (BW_Side2)
746-102	2nd BTR Mode environment revise (FC_Side1)	100	0~200	2nd BTR Mode environment revise (FC_Side1)
746-103	2nd BTR Mode environment revise (FC_Side2)	100	0~200	2nd BTR Mode environment revise (FC_Side2)
746-112	2nd BTR Final output storage (Side1)	0	0~600	2nd BTR Final output storage (Side1)
746-113	2nd BTR Final output storage (Side2)	0	0~600	2nd BTR Final output storage (Side2)
746-117	Chosen 2nd BTR CLN (-) output storage	0	0~600	Chosen 2nd BTR CLN (-) output storage
746-118	2nd BTR CLN (-) output (environment NO.0)	60	0~600	2nd BTR CLN (-) output (environment NO.0)
746-119	2nd BTR CLN (-) output (environment NO.1-3)	50	0~600	2nd BTR CLN (-) output (environment NO.1-3)
746-120	2nd BTR CLN (-) output (environment NO.4-6)	60	0~600	2nd BTR CLN (-) output (environment NO.4-6)
746-121	2nd BTR CLN (-) output (environment NO.7)	60	0~600	2nd BTR CLN (-) output (environment NO.7)
746-122	2nd BTR CLN (-) output (environment NO.8-9)	60	0~600	2nd BTR CLN (-) output (environment NO.8-9)
746-123	DTS reference voltage (full speed)	30	0~30	DTS reference voltage (full speed)
746-124	DTS reference voltage (halfspeed)	30	0~30	DTS reference voltage (halfspeed)
746-125	DTS Mode environment revise (BW_Side1)	100	0~100	DTS Mode environment revise (BW_Side1)
746-126	DTS Mode environment revise (BW_Side2)	0	0~100	DTS Mode environment revise (BW_Side2)
746-127	DTS Mode environment revise (FC_Side1)	100	0~100	DTS Mode environment revise (FC_Side1)
746-128	DTS Mode environment revise (FC_Side2)	0	0~100	DTS Mode environment revise (FC_Side2)
746-129	DTS Environment compensation coefficient (environment NO.0)	100	0~100	DTS Environment compensation coefficient (environment NO.0)
746-130	DTS Environment compensation coefficient (environment NO.1-3)	100	0~100	DTS Environment compensation coefficient (environment NO.1-3)
746-131	DTS Environment compensation coefficient (environment NO.4-6)	100	0~100	DTS Environment compensation coefficient (environment NO.4-6)
746-132	DTS Environment compensation coefficient (environment NO.7)	100	0~100	DTS Environment compensation coefficient (environment NO.7)
746-133	DTS Environment compensation coefficient (environment NO.8-9)	100	0~100	DTS Environment compensation coefficient (environment NO.8-9)
746-134	DTS The extreme last train pressure storage (Side1)	0	0~30	DTS The extreme last train pressure storage (Side1)
746-135	DTS The extreme last train pressure storage (Side2)	0	0~30	DTS The extreme last train pressure storage (Side2)
746-136	Chosen DTS reference voltage storage (Side1)	0	0~30	Chosen DTS reference voltage storage (Side1)
746-137	Chosen DTS reference voltage storage (Side2)	0	0~30	Chosen DTS reference voltage storage (Side2)
746-139	1st BTR Resistance detection V monitor result storage (Ave)	0	0~6500	1st BTR Resistance detection V monitor result storage (Ave)
746-140	1st BTR Resistance detection V monitor result storage (data1)	0	0~6500	1st BTR Resistance detection V monitor result storage (data1)
746-141	1st BTR Resistance detection V monitor result storage (data2)	0	0~6500	1st BTR Resistance detection V monitor result storage (data2)
746-142	1st BTR Resistance detection V monitor result storage (data3)	0	0~6500	1st BTR Resistance detection V monitor result storage (data3)

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Chain-Link	Name	Default	Range	Description
746-143	1st BTR Resistance detection V monitor result storage (data4)	0	0~6500	1st BTR Resistance detection V monitor result storage (data4)
746-144	1st BTR Resistance detection V monitor result storage (data5)	0	0~6500	1st BTR Resistance detection V monitor result storage (data5)
746-145	1st BTR Resistance detection V monitor result storage (data6)	0	0~6500	1st BTR Resistance detection V monitor result storage (data6)
746-147	IBT CLN Auger Clutch On Timing (full speed)	0	0~255	IBT CLN Auger Clutch On Timing (full speed)
746-148	IBT CLN Auger Clutch On Timing (half speed)	0	0~255	IBT CLN Auger Clutch On Timing (half speed)
746-149	IBT CLN Auger Clutch Off Timing (BW_ full speed)	0	0~255	IBT CLN Auger Clutch Off Timing (BW_ full speed)
746-150	IBT CLN Auger Clutch Off Timing (FC_ full speed)	0	0~255	IBT CLN Auger Clutch Off Timing (FC_ full speed)
746-151	IBT CLN Auger Clutch Off Timing (BW_ half speed)	0	0~255	IBT CLN Auger Clutch Off Timing (BW_ halfspeed)
746-152	IBT CLN Auger Clutch Off Timing (FC_ half speed)	0	0~255	IBT CLN Auger Clutch Off Timing (FC_ halfspeed)
746-153	toner splash countermeasure (full speed)	0	0~3	toner splash countermeasure (full speed)
746-154	toner splash countermeasure (half speed)	0	0~3	toner splash countermeasure (halfspeed)
746-155	Flag is Over System Register Max Value	0	0~1	Flag is Over System Register Max Value 0: R>Rn 1: R>Rn
746-156	The concentration of the transcription Initial toner band	60	0~100	The concentration of the transcription Initial toner band
746-157	The concentration of the transcription toner band	60	0~100	The concentration of the transcription toner band
746-158	toner band execution environment NO. threshold value	0	0~9	toner band execution environment NO. threshold value
746-162	Transcription belt reverse execution switch (Job End)	1	0~1	Transcription belt reverse execution switch (Job End)
746-163	Transcription belt reverse environment NO. threshold value (Common)	5	0~9	Transcription belt reverse environment NO. threshold value (Common)
746-164	Transcription belt reverse quantity (at the time of usual)	50	0~100	Transcription belt reverse quantity (at the time of usual)
746-167	Resistance detection execution switch	1	0~1	Resistance detection execution switch
746-168	1st BTR Resistance detection standard electric current	200	0~800	1st BTR Resistance detection standard electric current
746-169	1st BTR fixed standard output I alpha Y	200	0~800	1st BTR fixed standard output I alpha Y
746-170	1st BTR fixed standard output I alpha M	200	0~800	1st BTR fixed standard output I alpha M
746-171	1st BTR fixed standard output I alpha C	200	0~800	1st BTR fixed standard output I alpha C
746-172	1st BTR fixed standard output I alpha K	350	0~800	1st BTR fixed standard output I alpha K
746-203	2nd BTR Resistance detection appropriate voltage	100	0~600	2nd BTR Resistance detection appropriate voltage
746-204	The second transcription department composition resistance calculation result storage	0	0~10000	The second transcription department composition resistance calculation result storage
746-205	The chosen the second transcription coefficient: alpha storage	0	0~6000	The chosen the second transcription coefficient: alpha storage
746-206	The chosen the second transcription coefficient: beta storage	0	0~6000	The chosen the second transcription coefficient: beta storage
746-207	2nd BTR resistance detection I monitor result storage (average)	0	0~6000	2nd BTR resistance detection I monitor result storage (average)
746-260	1st BTR Output (at the time of Diag)	200	0~800	1st BTR Output (at the time of Diag)
746-261	2nd BTR Output (at the time of Diag)	100	0~600	2nd BTR Output (at the time of Diag)
746-262	DTS Output (at the time of Diag)	30	0~30	DTS Output (at the time of Diag)
746-263	HFSI Life (IBT Unit_Life)	480000	0~1000000	HFSI Life (IBT Unit_Life)
746-264	HFSI Life (2nd BTR Unit_Life)	150000	0~1000000	HFSI Life (2nd BTR Unit_Life)
746-265	HFSI Life (IBT CLN Unit_Life)	100000	0~1000000	HFSI Life (IBT CLN Unit_Life)
746-266	Near End Warning (IBT Unit)	478500	0~1000000	Near End Warning (IBT Unit)
746-267	Near End Warning (2nd BTR Unit)	148500	0~1000000	Near End Warning (2nd BTR Unit)
746-268	Near End Warning (IBT CLN Unit)	98500	0~1000000	Near End Warning (IBT CLN Unit)

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Chain-Link	Name	Default	Range	Description
747-318	The second transcription coefficient	1500	0~6000	The second transcription coefficient:B(BW/FC_Full_Env.7_plain_S_Side2)
747-319	The second transcription coefficient	1900	0~6000	The second transcription coefficient:B(BW/FC_Full_Env.8_plain_S_Side2)
747-320	The second transcription coefficient	2600	0~6000	The second transcription coefficient:B(BW/FC_Full_Env.9_plain_S_Side2)
747-321	The second transcription coefficient	30	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.0_heavy1_S_Side1)
747-322	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.1_heavy1_S_Side1)
747-323	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.2_heavy1_S_Side1)
747-324	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.3_heavy1_S_Side1)
747-325	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.4_heavy1_S_Side1)
747-326	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.5_heavy1_S_Side1)
747-327	The second transcription coefficient	145	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.6_heavy1_S_Side1)
747-328	The second transcription coefficient	125	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.7_heavy1_S_Side1)
747-329	The second transcription coefficient	90	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.8_heavy1_S_Side1)
747-330	The second transcription coefficient	30	0~6000	The second transcription coefficient:A(BW/FC_Full/Half_Env.9_heavy1_S_Side1)
747-331	The second transcription coefficient	2800	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.0_heavy1_S_Side1)
747-332	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.1_heavy1_S_Side1)
747-333	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.2_heavy1_S_Side1)
747-334	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.3_heavy1_S_Side1)
747-335	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.4_heavy1_S_Side1)
747-336	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.5_heavy1_S_Side1)
747-337	The second transcription coefficient	1100	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.6_heavy1_S_Side1)
747-338	The second transcription coefficient	1400	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.7_heavy1_S_Side1)
747-339	The second transcription coefficient	1900	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.8_heavy1_S_Side1)
747-340	The second transcription coefficient	2800	0~6000	The second transcription coefficient:B(BW/FC_Full/Half_Env.9_heavy1_S_Side1)

Table 6 Xfer

Chain-Link	Name	Default	Range	Description
747-341	The second transcription coefficient	40	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.0_heavy1_S_Side2)
747-342	The second transcription coefficient	310	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.1_heavy1_S_Side2)
747-343	The second transcription coefficient	310	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.2_heavy1_S_Side2)
747-344	The second transcription coefficient	310	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.3_heavy1_S_Side2)
747-345	The second transcription coefficient	250	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.4_heavy1_S_Side2)
747-346	The second transcription coefficient	250	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.5_heavy1_S_Side2)
747-347	The second transcription coefficient	250	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.6_heavy1_S_Side2)
747-348	The second transcription coefficient	210	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.7_heavy1_S_Side2)
747-349	The second transcription coefficient	140	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.8_heavy1_S_Side2)
747-350	The second transcription coefficient	40	0-6000	The second transcription coefficient:A(BW/FC_Full/ Half_Env.9_heavy1_S_Side2)
747-351	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.0_heavy1_S_Side2)
747-352	The second transcription coefficient	1100	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.1_heavy1_S_Side2)
747-353	The second transcription coefficient	1100	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.2_heavy1_S_Side2)
747-354	The second transcription coefficient	1100	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.3_heavy1_S_Side2)
747-355	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.4_heavy1_S_Side2)
747-356	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.5_heavy1_S_Side2)
747-357	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.6_heavy1_S_Side2)
747-358	The second transcription coefficient	1900	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.7_heavy1_S_Side2)
747-359	The second transcription coefficient	2500	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.8_heavy1_S_Side2)
747-360	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Full/ Half_Env.9_heavy1_S_Side2)
747-361	The second transcription coefficient	30	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.0_heavy2_S_Side1)
747-362	The second transcription coefficient	150	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.1_heavy2_S_Side1)
747-363	The second transcription coefficient	150	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.2_heavy2_S_Side1)
747-364	The second transcription coefficient	150	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.3_heavy2_S_Side1)

Table 6 Xfer

Chain-Link	Name	Default	Range	Description
747-365	The second transcription coefficient	135	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.4_heavy2_S_Side1)
747-366	The second transcription coefficient	135	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.5_heavy2_S_Side1)
747-367	The second transcription coefficient	135	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.6_heavy2_S_Side1)
747-368	The second transcription coefficient	120	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.7_heavy2_S_Side1)
747-369	The second transcription coefficient	80	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.8_heavy2_S_Side1)
747-370	The second transcription coefficient	30	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.9_heavy2_S_Side1)
747-371	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.0_heavy2_S_Side1)
747-372	The second transcription coefficient	900	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.1_heavy2_S_Side1)
747-373	The second transcription coefficient	900	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.2_heavy2_S_Side1)
747-374	The second transcription coefficient	900	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.3_heavy2_S_Side1)
747-375	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.4_heavy2_S_Side1)
747-376	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.5_heavy2_S_Side1)
747-377	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.6_heavy2_S_Side1)
747-378	The second transcription coefficient	1550	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.7_heavy2_S_Side1)
747-379	The second transcription coefficient	2250	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.8_heavy2_S_Side1)
747-380	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.9_heavy2_S_Side1)
747-381	The second transcription coefficient	50	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.0_heavy2_S_Side2)
747-382	The second transcription coefficient	330	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.1_heavy2_S_Side2)
747-383	The second transcription coefficient	330	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.2_heavy2_S_Side2)
747-384	The second transcription coefficient	330	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.3_heavy2_S_Side2)
747-385	The second transcription coefficient	280	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.4_heavy2_S_Side2)
747-386	The second transcription coefficient	280	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.5_heavy2_S_Side2)
747-387	The second transcription coefficient	280	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.6_heavy2_S_Side2)
747-388	The second transcription coefficient	240	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.7_heavy2_S_Side2)
747-389	The second transcription coefficient	160	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.8_heavy2_S_Side2)
747-390	The second transcription coefficient	50	0-6000	The second transcription coefficient:A(BW/FC_Half_Env.9_heavy2_S_Side2)
747-391	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.0_heavy2_S_Side2)
747-392	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.1_heavy2_S_Side2)
747-393	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.2_heavy2_S_Side2)
747-394	The second transcription coefficient	1200	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.3_heavy2_S_Side2)
747-395	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.4_heavy2_S_Side2)
747-396	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.5_heavy2_S_Side2)
747-397	The second transcription coefficient	1600	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.6_heavy2_S_Side2)
747-398	The second transcription coefficient	1900	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.7_heavy2_S_Side2)
747-399	The second transcription coefficient	2500	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.8_heavy2_S_Side2)
747-400	The second transcription coefficient	3300	0-6000	The second transcription coefficient:B(BW/FC_Half_Env.9_heavy2_S_Side2)
747-401	System Register Max Value R0 (Env0)	600	0-10000	System Register Max Value R0 (Env0)
747-402	System Register Max Value R1 (Env1)	50	0-10000	System Register Max Value R1 (Env1)
747-403	System Register Max Value R2 (Env2)	50	0-10000	System Register Max Value R2 (Env2)
747-404	System Register Max Value R3 (Env3)	50	0-10000	System Register Max Value R3 (Env3)
747-405	System Register Max Value R4 (Env4)	100	0-10000	System Register Max Value R4 (Env4)

Table 6 Xfer

Chain-Link	Name	Default	Range	Description
747-406	System Register Max Value R5 (Env5)	100	0~10000	System Register Max Value R5 (Env5)
747-407	System Register Max Value R6 (Env6)	100	0~10000	System Register Max Value R6 (Env6)
747-408	System Register Max Value R7 (Env7)	150	0~10000	System Register Max Value R7 (Env7)
747-409	System Register Max Value R8 (Env8)	300	0~10000	System Register Max Value R8 (Env8)
747-410	System Register Max Value R9 (Env9)	600	0~10000	System Register Max Value R9 (Env9)
747-411	Counter is Over System Register Max Value	0	0~65535	Counter is Over System Register Max Value
747-905	Chosen 2nd BTR reference output storage(Side1)	0	0~600	Chosen 2nd BTR reference output storage(Side1)
747-906	Chosen 2nd BTR reference output storage(Side2)	0	0~600	Chosen 2nd BTR reference output storage(Side2)
747-907	2nd BTR Contact Timing (full speed)	1049	0~2000	2nd BTR Contact Timing (full speed)
747-908	2nd BTR Contact Timing (halfspeed)	1694	0~2000	2nd BTR Contact Timing (halfspeed)
747-909	2nd BTR Retract Timing (full speed)	645	0~1000	2nd BTR Retract Timing (full speed)
747-910	2nd BTR Retract Timing (half speed)	1295	0~2000	2nd BTR Retract Timing (half speed)
747-911	2nd BTR Contact movement stop Timing	874	0~1500	2nd BTR Contact movement stop Timing
747-912	2nd BTR Retract movement stop Timing	49	0~1500	2nd BTR Retract movement stop Timing
747-913	2nd BTR Print output On Timing (full speed)	1599	50~2000	2nd BTR Print output On Timing (full speed)
747-914	2nd BTR Print output On Timing (halfspeed)	2013	50~3000	2nd BTR Print output On Timing (halfspeed)
747-915	2nd BTR Print output Off Timing (full speed)	41	0~1000	2nd BTR Print output Off Timing (full speed)
747-916	2nd BTR Print output Off Timing (halfspeed)	81	0~1000	2nd BTR Print output Off Timing (halfspeed)
747-917	2nd BTR Contact Timing in Position_B (full speed)	1049	0~2000	2nd BTR Contact Timing in Position_B (full speed)
747-919	2nd BTR Print output On Timing in Position_B(full speed)	1599	50~2000	2nd BTR Print output On Timing in Position_B(full speed)
747-927	The 2nd BTR Print output Off Timing of Size Mismatch FullSpeeg Printoutput ->CLN (+)	0	0~2550	The 2nd BTR Print output Off Timing of Size Mismatch FullSpeeg Printoutput ->CLN (+)
747-928	The 2nd BTR Print output Off Timing of Size Mismatch HalfSpeed Printoutput ->CLN (+)	0	0~4500	The 2nd BTR Print output Off Timing of Size Mismatch HalfSpeed Printoutput ->CLN (+)
747-929	IBT CLN Contact Timing (full speed)	2859	2000~4000	IBT CLN Contact Timing (full speed)
747-930	IBT CLN Contact Timing (BW_half speed)	3604	3000~5000	IBT CLN Contact Timing (BW_half speed)
747-931	IBT CLN Contact Timing (FC_half speed)	3454	3000~5000	IBT CLN Contact Timing (FC_half speed)
747-932	IBT CLN Retract Timing (BW_full speed)	3095	2000~5000	IBT CLN Retract Timing (BW_full speed)
747-933	IBT CLN Retract Timing (FC_full speed)	3095	2000~5000	IBT CLN Retract Timing (FC_full speed)
747-934	IBT CLN Retract Timing (BW_halfspeed)	3158	2000~5000	IBT CLN Retract Timing (BW_halfspeed)
747-935	IBT CLN Retract Timing (FC_halfspeed)	3032	2000~5000	IBT CLN Retract Timing (FC_halfspeed)
747-936	IBT CLN Contact movement stop Timing	391	0~800	IBT CLN Contact movement stop Timing
747-937	IBT CLN Retract movement stop Timing	12	0~800	IBT CLN Retract movement stop Timing
747-938	The chosen the second transcription coefficient_SIDE2: Alpha storage	0	0~6000	The chosen the second transcription coefficient_SIDE2: Alpha storage
747-939	The chosen the second transcription coefficient_SIDE2: Beta storage	0	0~6000	The chosen the second transcription coefficient_SIDE2: Beta storage
747-940	Transcription belt reverse sw	1	0~1	SW that enables rotating Transfer Belt in reverse direction (Job divided)
747-941	Transcription belt reverse pv threshold value	250	1~1000	Transfer Belt Reverse Rotation pv Threshold (Job divided)
747-942	Transcription belt reverse pv counter storage	0	0~1000	Transfer Belt Reverse Rotation pv Counter Storage (Job divided)

Table 6 Xfer

Chain-Link	Name	Default	Range	Description
747-943	high document ibt cln cycle sw	1	0~1	SW that enables IBT CLN cycle for an image with a high resolution
747-944	2nd BTR parameter designated (BW/FC, Common Heavy1 paper _S)	0	0~1	2nd BTR parameter designated (BW/FC, Common Heavy1 paper _S) 0:usually_PARA 1:heavy1S_PARA
747-945	2nd BTR parameter designated (FC,Heavy1 paper _S)	30	0~50	Waiting time from the end of reverse rotation of Transfer Belt to the start of the next print
747-946	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.0_S1)
747-947	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.1_S1)
747-948	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.2_S1)
747-949	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.3_S1)
747-950	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.4_S1)
747-951	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.5_S1)
747-952	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.6_S1)
747-953	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.7_S1)
747-954	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.8_S1)
747-955	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (BW_Full_Env.9_S1)
747-956	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.0_S1)
747-957	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.1_S1)
747-958	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.2_S1)
747-959	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.3_S1)
747-960	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.4_S1)
747-961	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.5_S1)
747-962	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.6_S1)
747-963	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.7_S1)
747-964	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.8_S1)
747-965	2nd BTR Paper kind compensation coefficient label	100	0~255	2nd BTR Paper kind compensation coefficient label NA (FC_Half_Env.9_S1)

Chain 749-xxx ROS

Table 7 ROS

Chain-Link	Name	Default	Range	Description
749-001	Polygon Motor Off Delay Time	1	1~10	Time from the end of exposure of last image to the start of stopping Polygon Motor [sec]
749-002	Fast Polygon Motor Start Time Out	10	0~30	Time [sec] before Polygon Motor is turned Off in case the machine is not instructed to start printing though Polygon Motor is activated in advance. [sec]
749-003	ROS Fan On Temp	24	15~30	Environment temp [degree C] where ROS Fan is rotated during rotation of Polygon Motor
749-004	ROS Fan Stop Delay Time	10	6~14	Time [sec] before ROS Fan is rotated after Polygon Motor stops rotating
749-005		600	0~65535	Delay start of the ROS Shutter close process (msec)
749-006		100	100~4096	Number of input pulse per ROS Shutter close process (pps)
749-007		0	0~65535	Time period of ROS Shutter close process (10msec)

Table 7 ROS

Chain-Link	Name	Default	Range	Description
749-008		0	0~1	Rotation direction to close ROS Shutter 0: Clockwise 1: Counter Clockwise
749-009		100	100~4096	Number of input pulse per ROS Shutter open process (pps)
749-010		0	0~65535	Time period of ROS Shutter open process (10msec)
749-011		0	0~1	Rotation direction to open ROS Shutter 0: Clockwise 1: Counter Clockwise
749-012	Video Asic Fail R/W NG Counter	0	0~6	the number of R/W NG results when Video ASIC Fail occurs
749-020	Halftone Pattern1	0	0~65535	Halftone Pattern 1 [16-bit data]
749-021	Halftone Pattern2	0	0~65535	Halftone Pattern 2 [16-bit data]
749-022	Halftone Pattern3	0	0~65535	Halftone Pattern 3 [16-bit data]
749-023	Halftone Pattern4	0	0~65535	Halftone Pattern 4 [16-bit data]
749-024	TR0 Filter Length	0	0~255	TR0 Filter Constant [VCLK]
749-036	Lattice Pattern dot	2	1~2	the number of dots per line in lattice pattern

Chain 751-xxx 752-xxx Chain 753-xxx Procon

Table 8 Xero/Clean

Chain-Link	Name	Default	Range	Description
751-284	DRUM MAX IMPRESSION	78	0~255	Max. number of prints [1000pv]: Drum is available until a max number of prints are made.

Table 9 Process Control

Chain-Link	Name	Default	Range	Description
752-010	Flag NewPR	0	0~1	0: old 1: new
752-011	Flag TonerExchange[Y]	0	0~1	0: no replacement 1: replace
752-012	Flag TonerExchange[M]	0	0~1	0: no replacement 2: replace
752-013	Flag TonerExchange[C]	0	0~1	0: no replacement 3: replace
752-014	Flag TonerExchange[K]	0	0~1	0: no replacement 4: replace
752-015	Flag NewToner[Y]	0	0~1	0: old 1: new
752-016	Flag NewToner[M]	0	0~1	0: old 2: new
752-017	Flag NewToner[C]	0	0~1	0: old 3: new
752-018	Flag NewToner[K]	0	0~1	0: old 4: new
752-019	Flag NewIBT	0	0~1	0: old 1: new
752-020	Flag NewIBTcleaner	0	0~1	0: old 1: new
752-040	Temp	0	-100~100	Temperature after AD conversion (NVM100: 0 degree C)
752-041	Humidity	0	0~100	Humidity after AD conversion (NVM0: 0%)

Table 9 Process Control

Chain-Link	Name	Default	Range	Description
752-060	Fail Environment SNR Humidity	0	0~1	Humidity Sensor fail ("Standard Humidity" fixed)
752-061	Fail Environment SNR TEMP	0	0~1	Temperature Sensor fail ("Standard Temp" fixed)
752-091	Judge Number of ADC Fails Mcstop[N]	50	0~255	Threshold used to judge MC should be forcedly stopped in response to "the number of a series of ADC Fails." In normal mode
752-092	Judge Number of ADC Fails Mcstop[PN]	8	0~255	Threshold used to judge MC should be forcedly stopped in response to "the number of a series of ADC Fails." "Flag Status: Empty Detection">=1
752-093	Judge Number of ADC Fails Display	3	0~255	Threshold used to judge Fail should be displayed in response to "the number of a series of ADC Fails"
752-094	Fail ADC	0	0~1	ADC Sensor Fail. This fail occurs if a specified or larger number of ADC-related fails occur.
752-095	Fail ADC Sensor	0	0~1	ADC Sensor Fail
752-096	Fail ADC ShutterOpen	0	0~1	Fail: ADC Shutter stays open
752-097	Fail ADC ShutterClose	0	0~1	Fail: ADC Shutter stays closed
752-098	Fail ADC TCpatch[Y]	0	0~1	TC Patch Fail
752-099	Fail ADC TCpatch[M]	0	0~1	TC Patch Fail
752-100	Fail ADC TCpatch[C]	0	0~1	TC Patch Fail
752-101	Fail ADC TCpatch[K]	0	0~1	TC Patch Fail
752-102	Fail ADC patch[Y]	0	0~1	Tone Patch Fail
752-103	Fail ADC patch[M]	0	0~1	Tone Patch Fail
752-104	Fail ADC patch[C]	0	0~1	Tone Patch Fail
752-105	Fail ADC patch[K]	0	0~1	Tone Patch Fail
752-106	Fail ADC LongSetup[Y]	0	0~1	Patch Density Fail during Long Setup
752-107	Fail ADC LongSetup[M]	0	0~1	Patch Density Fail during Long Setup
752-108	Fail ADC LongSetup[C]	0	0~1	Patch Density Fail during Long Setup
752-109	Fail ADC LongSetup[K]	0	0~1	Patch Density Fail during Long Setup
752-111	Flag ADC Dirt	0	0~1	Flag indicating ADC Sensor Detection Surface is contaminated.
752-112	Vcln	760	0~1023	ADC average detection value of Belt-reflected light with Spectral LED On
752-113	Vdatk	0	0~1023	Detection value with both Spectral and Diffuse LEDs Off when Shutter closed.
752-114	DiffusionVcln	30	0~1023	ADC average detection value of Belt-reflected light with Diffuse LED On
752-115	Vref	800	0~1023	Detection value with only Diffuse LED On when Shutter closed.
752-116	Vclose	0	0~1023	Detection value with only Spectral LED On when Shutter closed.
752-121	Number of Continuous ADC Fails	0	0~255	the number of a series of ADC Fails
752-127	VTCpatch[Y]	0	0~1023	TC Patch Vp average value
752-128	VTCpatch[M]	0	0~1023	TC Patch Vp average value
752-129	VTCpatch[C]	0	0~1023	TC Patch Vp average value
752-130	VTCpatch[K]	0	0~1023	TC Patch Vp average value
752-132	Vpatch[Y][B]	0	0~1023	CinB Patch ADC average detection value
752-135	Vpatch[M][B]	0	0~1023	CinB Patch ADC average detection value
752-138	Vpatch[C][B]	0	0~1023	CinB Patch ADC average detection value
752-141	Vpatch[K][B]	0	0~1023	CinB Patch ADC average detection value
752-183	Nominal RADC Target[Y]	432	0~1023	RADC target value set up as the center
752-184	Nominal RADC Target[M]	422	0~1023	RADC target value set up as the center
752-185	Nominal RADC Target[C]	417	0~1023	RADC target value set up as the center

Table 9 Process Control

Chain-Link	Name	Default	Range	Description
752-186	Nominal RADC Target[K]	282	0~1023	RADC target value set up as the center
752-187	RADC Target[Y]	350	0~1023	RADC target value after various corrections
752-188	RADC Target[M]	350	0~1023	RADC target value after various corrections
752-189	RADC Target[C]	350	0~1023	RADC target value after various corrections
752-190	RADC Target[K]	350	0~1023	RADC target value after various corrections
752-195	RADC[Y]	0	0~1023	RADC value calculated from ADC-related detection values
752-196	RADC[M]	0	0~1023	RADC value calculated from ADC-related detection values
752-197	RADC[C]	0	0~1023	RADC value calculated from ADC-related detection values
752-198	RADC[K]	0	0~1023	RADC value calculated from ADC-related detection values
752-203	TRC RADC Target[Y][A]	680	0~1023	Target RADC for tone correction
752-204	TRC RADC Target[Y][B]	385	0~1023	Target RADC for tone correction
752-205	TRC RADC Target[Y][C]	915	0~1023	Target RADC for tone correction
752-206	TRC RADC Target[M][A]	605	0~1023	Target RADC for tone correction
752-207	TRC RADC Target[M][B]	340	0~1023	Target RADC for tone correction
752-208	TRC RADC Target[M][C]	910	0~1023	Target RADC for tone correction
752-209	TRC RADC Target[C][A]	645	0~1023	Target RADC for tone correction
752-210	TRC RADC Target[C][B]	400	0~1023	Target RADC for tone correction
752-211	TRC RADC Target[C][C]	915	0~1023	Target RADC for tone correction
752-212	TRC RADC Target[K][A]	475	0~1023	Target RADC for tone correction
752-213	TRC RADC Target[K][B]	165	0~1023	Target RADC for tone correction
752-214	TRC RADC Target[K][C]	845	0~1023	Target RADC for tone correction
752-215	TRC RADC[Y][A]	0	0~1023	RADC value for tone correction
752-216	TRC RADC[Y][B]	0	0~1023	RADC value for tone correction
752-217	TRC RADC[Y][C]	0	0~1023	RADC value for tone correction
752-218	TRC RADC[M][A]	0	0~1023	RADC value for tone correction
752-219	TRC RADC[M][B]	0	0~1023	RADC value for tone correction
752-220	TRC RADC[M][C]	0	0~1023	RADC value for tone correction
752-221	TRC RADC[C][A]	0	0~1023	RADC value for tone correction
752-222	TRC RADC[C][B]	0	0~1023	RADC value for tone correction
752-223	TRC RADC[C][C]	0	0~1023	RADC value for tone correction
752-224	TRC RADC[K][A]	0	0~1023	RADC value for tone correction
752-225	TRC RADC[K][B]	0	0~1023	RADC value for tone correction
752-226	TRC RADC[K][C]	0	0~1023	RADC value for tone correction
752-253	Nominal TRC RADC Target[Y][B]	385	0~1023	TRC_RADC target value set up as the center
752-254	Nominal TRC RADC Target[M][B]	340	0~1023	TRC_RADC target value set up as the center
752-255	Nominal TRC RADC Target[C][B]	400	0~1023	TRC_RADC target value set up as the center
752-256	Nominal TRC RADC Target[K][B]	165	0~1023	TRC_RADC target value set up as the center
752-299	SW DispMode	0	0~2	Switch that selects Disp Mode (0: ADC+ICDCdisp 1: ICDCdisp 2: Timerdisp)
752-301	Timer Disp time[Y]	5	0~255	Timer Disp set time (in steps of 10ms)
752-302	Timer Disp time[M]	5	0~255	Timer Disp set time (in steps of 10ms)
752-303	Timer Disp time[C]	5	0~255	Timer Disp set time (in steps of 10ms)

Table 9 Process Control

Chain-Link	Name	Default	Range	Description
752-304	Timer Disp time[K]	5	0-255	Timer Disp set time (in steps of 10ms)
752-441	SW LD Control	0	0-1	Switch that sets LD Control to ON/OFF (0: LDControl ON 1: LD Control OFF)
752-443	SW DeveBias Control	0	0-1	0: Vbias controlled 1: Vbias not controlled (delta Vbias=0)
752-444	LD Light qty when LD Control is OFF[Y]	420	0-1023	LD light quantity with electric potential control Off
752-445	LD Light qty when LD Control is OFF[M]	420	0-1023	LD light quantity with electric potential control Off
752-446	LD Light qty when LD Control is OFF[C]	420	0-1023	LD light quantity with electric potential control Off
752-447	LD Light qty when LD Control is OFF[K]	420	0-1023	LD light quantity with electric potential control Off
752-448	LD light qty[Y]	420	0-1023	Ideal LD light quantity calculated from delta LD light quantity
752-449	LD light qty[M]	420	0-1023	Ideal LD light quantity calculated from delta LD light quantity
752-450	LD light qty[C]	420	0-1023	Ideal LD light quantity calculated from delta LD light quantity
752-451	LD light qty[K]	420	0-1023	Ideal LD light quantity calculated from delta LD light quantity
752-460	Flag LD Light qty Limit[Y]	0	0-2	0: within upper & lower limits 1: lower limit 2: upper limit
752-461	Flag LD Light qty Limit[M]	0	0-2	0: within upper & lower limits 1: lower limit 2: upper limit
752-462	Flag LD Light qty Limit[C]	0	0-2	0: within upper & lower limits 1: lower limit 2: upper limit
752-463	Flag LD Light qty Limit[K]	0	0-2	0: within upper & lower limits 1: lower limit 2: upper limit
752-464	Warn LD Light qty[Y]	0	0-1	0: within upper & lower limits 1: upper or lower limit
752-465	Warn LD Light qty[M]	0	0-1	0: within upper & lower limits 1: upper or lower limit
752-466	Warn LD Light qty[C]	0	0-1	0: within upper & lower limits 1: upper or lower limit
752-467	Warn LD Light qty[K]	0	0-1	0: within upper & lower limits 1: upper or lower limit
752-705	Flag Empty Detection Status[Y]	0	0-3	0: Normal 1: PreNear 2: NearEmpty 3: Empty
752-706	Flag Empty Detection Status[M]	0	0-3	0: Normal 1: PreNear 2: NearEmpty 3: Empty
752-707	Flag Empty Detection Status[C]	0	0-3	0: Normal 1: PreNear 2: NearEmpty 3: Empty
752-708	Flag Empty Detection Status[K]	0	0-3	0: Normal 1: PreNear 2: NearEmpty 3: Empty
752-789	SW PreNear	0	0-1	Switch that selects whether or not PreNear should be displayed. (1: not displayed 2: displayed)
752-790	PreNear Threshold[Y]	4032	0-65535	PreNear Threshold calculated from ICDC for a remaining toner ratio of 0%
752-791	PreNear Threshold[M]	3750	0-65535	PreNear Threshold calculated from ICDC for a remaining toner ratio of 0%
752-792	PreNear Threshold[C]	4032	0-65535	PreNear Threshold calculated from ICDC for a remaining toner ratio of 0%
752-793	PreNear Threshold[K]	11533	0-65535	PreNear Threshold calculated from ICDC for a remaining toner ratio of 0%
752-794	Flag PreNear[Y]	0	0-1	0: Normal status 1: PreNear and afterward
752-795	Flag PreNear[M]	0	0-1	0: Normal status 2: PreNear and afterward
752-796	Flag PreNear[C]	0	0-1	0: Normal status 3: PreNear and afterward
752-797	Flag PreNear[K]	0	0-1	0: Normal status 4: PreNear and afterward
752-812	Toner Level[Y]	100	0-100	a ratio of toner remaining in Toner Cartridge
752-813	Toner Level[M]	100	0-100	a ratio of toner remaining in Toner Cartridge
752-814	Toner Level[C]	100	0-100	a ratio of toner remaining in Toner Cartridge
752-815	Toner Level[K]	100	0-100	a ratio of toner remaining in Toner Cartridge
752-825	Toner Level 0% ICDC[Y]	4743	0-65535	ICDC total value corresponding to 0% of remaining toner
752-826	Toner Level 0% ICDC[M]	4412	0-65535	ICDC total value corresponding to 0% of remaining toner
752-827	Toner Level 0% ICDC[C]	4743	0-65535	ICDC total value corresponding to 0% of remaining toner
752-828	Toner Level 0% ICDC[K]	13568	0-65535	ICDC total value corresponding to 0% of remaining toner

Table 10 Process Control

Chain-Link	Name	Default	Range	Description
753-001	SW ADC Tone Correction	0	0~1	Switch that sets ADC Tone Correction to ON/OFF 0: ON 1: OFF
753-002	SW TRC Adjust	0	0~1	Switch that sets TRCadjust to ON/OFF 0: TRCadj_ON 1: TRCadj_OFF

Chain 760-xxx Registration Control

Table 11 Registration Control

Chain-Link	Name	Default	Range	Read/Write	Description
760-001	Polygon Synchronic Correction Switch	0	0~1	RW	Polygon Sync Correction Switch 0: ON 1: OFF
760-002	Offset Correction Switch	0	0~1	RW	Offset Correction Switch 0: ON 1: OFF
760-003	Learn Value Use Switch	0	0~1	RW	Learning-Result Using Switch 0: Learned value 1: NVM value
760-004	K-Speed Correction Switch	0	0~1	RW	Belt Speed Up Correction Switch 0: ON 1: OFF
760-005	K-Speed Correction Learn Value Use Switch	0	0~1	RW	Switch sets whether to use learning result in correcting Belt speed to speed it up. 0: Learned value 1: NVM value
760-006	GAPy	0	0~65535	R	Phase difference between TR0 and SOS: GAPy [1/50 micro s]
760-007	GAPm	0	0~65535	R	Phase difference between TR0 and SOS: GAPm [1/50 micro s]
760-008	GAPc	0	0~65535	R	Phase difference between TR0 and SOS: GAPc [1/50 micro s]
760-009	GAPk	0	0~65535	R	Phase difference between TR0 and SOS: GAPk [1/50 micro s]
760-014	BL Thresh	90	0~500	RW	Learn Mode Execution Count switching threshold [100PV]
760-015	BL Cycle1	15	0~70	RW	Learn Mode Execution Count Value 1 [100PV]
760-016	BL Cycle2	30	0~100	RW	Learn Mode Execution Count Value 2 [100PV]
760-017	Belt Length Correction Switch	0	0~1	RW	Belt Cycle Length Correction Switch [0: On 1: Off]

Table 11 Registration Control

Chain-Link	Name	Default	Range	Read/Write	Description
760-026	Xm	100	0~200	RW	Polygon Sync Correction Coefficient: Xm
760-027	Xc	100	0~200	RW	Polygon Sync Correction Coefficient: Xc
760-028	Xk	100	0~200	RW	Polygon Sync Correction Coefficient: Xk
760-029	Learn Belt HFSI Counter	0	0~42949 67295	R	Belt HFSI Count during learning [HFSI Count]
760-030	Learn Cleaner HFSI Counter	0	0~42949 67295	R	Cleaner HFSI Count during learning [HFSI Count]
760-031	Learn 2nd BTR HFSI Counter	0	0~42949 67295	R	2nd BTR HFSI Count [HFSI Count]
760-032	T11	0	0~50000	R	Learning result: T11 [1/50 x 2048 micro s]
760-033	T12	0	0~50000	R	Learning result: T12 [1/50 x 2048 micro s]
760-034	T21	0	0~50000	R	Learning result: T21 [1/50 x 2048 micro s]
760-035	T22	0	0~50000	R	Learning result: T22 [1/50 x 2048 micro s]
760-036	T31	0	0~50000	R	Learning result: T31 [1/50 x 2048 micro s]
760-037	T32	0	0~50000	R	Learning result: T32 [1/50 x 2048 micro s]
760-038	T41	0	0~50000	R	Learning result: T41 [1/50 x 2048 micro s]
760-039	T42	0	0~50000	R	Learning result: T42 [1/50 x 2048 micro s]
760-040	Y1	56300	0~10000 0	RW	Offset Correction Coefficient: Y1
760-041	Y2	90	0~200	RW	Offset Correction Coefficient: Y2
760-042	Y3	100	0~200	RW	Offset Correction Coefficient: Y3
760-043	Y4	50000	0~10000 0	RW	Offset Correction Coefficient: Y4
760-044	Y5	56300	0~10000 0	RW	Offset Correction Coefficient: Y5
760-045	Y6	90	0~200	RW	Offset Correction Coefficient: Y6
760-046	Y7	93	0~200	RW	Offset Correction Coefficient: Y7
760-047	Y8	100	0~200	RW	Offset Correction Coefficient: Y8
760-048	Y9	50000	0~10000 0	RW	Offset Correction Coefficient: Y9
760-049	Y10	59452	0~10000 0	RW	Offset Correction Coefficient: Y10
760-050	Y11	95	0~200	RW	Offset Correction Coefficient: Y11
760-051	Y12	77	0~200	RW	Offset Correction Coefficient: Y12

Table 11 Registration Control

Chain-Link	Name	Default	Range	Read/Write	Description
760-052	Y13	100	0~200	RW	Offset Correction Coefficient: Y13
760-053	Y14	53000	0~10000 0	RW	Offset Correction Coefficient: Y14
760-054	K1	43700	0~10000 0	RW	Offset Correction Coefficient: K1
760-055	K2	62	0~200	RW	Offset Correction Coefficient: K2
760-056	K3	50000	0~10000 0	RW	Offset Correction Coefficient: K3
760-057	K4	34247	0~10000 0	RW	Offset Correction Coefficient: K4
760-058	K5	85	0~200	RW	Offset Correction Coefficient: K5
760-059	K6	85	0~200	RW	Offset Correction Coefficient: K6
760-060	K7	100	0~200	RW	Offset Correction Coefficient: K7
760-061	K8	50000	0~10000 0	RW	Offset Correction Coefficient: K8
760-062	K9	31095	0~10000 0	RW	Offset Correction Coefficient: K9
760-063	K10	85	0~200	RW	Offset Correction Coefficient: K10
760-064	K11	85	0~200	RW	Offset Correction Coefficient: K11
760-065	K12	100	0~200	RW	Offset Correction Coefficient: K12
760-066	K13	50000	0~10000 0	RW	Offset Correction Coefficient: K13
760-077	K14	74	0~200	RW	Offset Correction Coefficient: K14
760-078	K15	75	0~200	RW	Offset Correction Coefficient: K15
760-079	K16	100	0~200	RW	Offset Correction Coefficient: K16
760-080	K17	43000	0~10000 0	RW	Offset Correction Coefficient: K17
760-081	K-speed-offset start timing	12	4~15	RW	Time (100msec)from Belt Home detection that triggers plotting an image in K to the start of modulating IBT Belt speed.
760-082	K-speed-offset end timing	3700	300~370 0	RW	Time (msec) from Belt Home detection that triggers plotting an image in K to the end of modulating IBT Belt speed
760-083	K-speed-offset value	20264	20193~2 0274	RW	The double of this NVM value shall be an actual division ratio in speed modulation for K.
760-085	Slope of Low Brightness	261	0~511	RW	Low-light-intensity-area regi correction gradient
760-086	Slope of High Brightness	69	0~511	RW	High-light-intensity-area regi correction gradient
760-087	Intercept of Low Brightness	6528	0~65535	RW	Low-light-intensity-area Y intercept
760-088	Intercept of High Brightness	1723	0~6535	RW	High-light-intensity-area Y intercept
760-089	LD-Volume Adjust Switch	0	0~1	RW	Light Qty Regi Correction S/W 0: On 1: Off
760-090	Regi-Control Change Point	430	250~880	RW	Control Gradient changing point
760-091	Y15	87	0~200	RW	Y15

Table 11 Registration Control

Chain-Link	Name	Default	Range	Read/Write	Description
760-092	Y16	96	0~200	RW	Y16
760-093	Y17	100	0~200	RW	Y17
760-094	Y18	55000	0~10000 0	RW	Y18
760-095	Y-Speed Correction Switch	0	0~1	RW	Y Belt Speed Up Correction Switch 0: On 1: Off
760-096	Y-Speed Correction Learn Value Use Switch	0	0~1	RW	Switch sets whether to use learning result in correcting Y Belt speed to speed it up. 0: Learned value 1: NVM value
760-097	Y-speed-offset start timing	22	20~30	RW	Time (100msec)from Belt Home detection that triggers plotting an image in Y to the start of modulating IBT Belt speed
760-098	Y-speed-offset value	20302	20274~2 0355	RW	The double of this NVM value shall be an actual division ratio in speed modulation for Y.
760-100	K-Speed Two Step Correction Switch	0	0~1	RW	2-step speed modulation for K 0: On 1: Off
760-101	K-speed Two Step offset value	20235	20139~2 0274	RW	2-step Speed Modulation division ratio for K
760-102	K-Two Step-speed-offset start timing	2600	2000~37 00	RW	2-step speed modulation starting point for K [msec]
760-103	TR0 seal dirt error counter	0	0~255	RW	Logs how many times dirt has been detected on the effective area of TR0 sticker.
760-104	TR0 seal dirt warning counter	0	0~255	RW	Logs how many times dirt on TR0 sticker has been detected.
760-105	Belt Home Position Too Long Fail threshold	2354	2337~45 30	RW	Threshold for detecting Broken Belt Fail

Chain 762-xxx Developer

Table 12 Deve

Chain-Link	Name	Default	Range	Read/Write	Description
762-001	BIAS_DC_ON	67	1~145	RW	DC BIAS ON Timing (67 Steps before)
762-002	BIAS_AC_ON	67	1~145	RW	AC BIAS ON Timing (67 Steps before)
762-003	BIAS_DC_OFF	67	1~145	RW	DC BIAS OFF Timing (67 Steps after)
762-004	BIAS_AC_OFF	67	1~145	RW	AC BIAS OFF Timing (67 Steps after)
762-005	DEVE_MOT_ON	200	0~1000	RW	DEVE_MOT ON Timing (300ms before image)
762-006	DEVE_MOT_OFF	1	1~145	RW	DEVE_MOT OFF Timing (1 Step after)
762-007	ROT_MOT_ON	10	0~500	RW	ROTARY MOTOR ON Signal ON timing (10ms before HI/LOW signal)
762-008	ROT_MOT_OFF	10	0~500	RW	ROTARY MOTOR ON Signal OFF timing (10ms after HI/LOW signal)
762-009	ROT_MOT_HL_ON	30	0~500	RW	ROTARY HI/LOW Signal ON timing (30ms before DEVE CLK)
762-010	ROT_MOT_HL_OFF	200	0~500	RW	ROTARY HI/LOW Signal OFF timing (200ms after DEVE CLK)
762-011	FIRST_ROT_TIME_FC	693	0~2000	RW	the timing of starting rotating Rotary when FC cycles up (693ms before image)

Table 12 Deve

Chain-Link	Name	Default	Range	Read/Write	Description
762-012	FIRST_ROT_TIME_BW	693	0~2000	RW	the timing of starting rotating Rotary when BW cycles up (693ms before image)
762-014	ROT_MOT_TIME_END	10	0~500	RW	the timing of starting rotating Rotary when the M/C cycles down (10ms after the trail edge of image)
762-015	Home Back Wait Time	500	0~2000	RW	Wait Time between Exchange Position and Back Home (500ms after the instruction)
762-016	ROTARY_POSITION	0	0~4	RW	0: Home 1: Kex 2: Yex 3: Mex 4: Cex
762-017	ESCAPE_INT_TIME	1700	0~3000	RW	Rest Time (1700ms) in Kesc
762-022	ESCAPE_BIAS_DC	100	0~1000	RW	Bias DC Value (100V) for generating band for a color that passes the development position
762-023	BW_TRICLE_START_WAIT	500	0~2000	RW	Wait Time before starting the operation of trickling toner (500ms after the trail edge of image)
762-024	BW_TRICLE_WAIT_TIME	1000	0~3000	RW	Wait Time (1000ms) at the position trickling is done
762-025	BW_TRICLE_DISP_LIMIT	1500	0~5000	RW	Total Dispense Time Threshold (15sec: in steps of 10ms) in continuous B/W in order to do the operation of trickling
762-026	BW_TRICLE_DISP_TOTAL	0	0~5000	RW	Total Dispense Time in continuous B/W in order to do the operation of trickling during job
762-027	NVM_HOME_ADJ_Switch	0	0~1	RW	0: Adjustment Mode not executed 1: Adjustment Mode executed
762-028	NVM_HOME_ADJ_PULSE	33	0~65	RW	HOME SENSOR Installing Position Correction Value (N)
762-029	NVM_ROTARY_FAIL_LIMIT	8	0~50	RW	Home Position Fail Occurrence Threshold (F)
762-030	Deve_Bias_DC	570	0~1000	RW	Deve Bias DC Value (Default: 600V)
762-031	Deve_Bias_AC_F	6250	0~10000	RW	Deve Bias AC Frequency (Default: 6000Hz)
762-032	Deve_Bias_AC_PP	1000	0~2000	RW	Deve Bias AC Vpeak-peak Value (Default: 1000V)
762-033	Deve_Bias_AC_Duty	65	0~100	RW	Deve Bias AC Duty (Default: 65%)
762-034	CRUM R/W WAIT TIME 1	10	0~500	RW	Wait Time (ms) before CRUM R/W
762-035	CRUM R/W WAIT TIME 2	10	0~500	RW	Wait Time (ms) after CRUM R/W
762-036	HOME POSITION ANGLE	35	0~65	RW	Home Position Angle Preset Value (H)
762-038	CRUM R/W WAIT TIME 5	30	0~500	RW	CRUM R/W Escape Wait Time (ms)
762-039	BAND_DEVE_ROT_TIME_K	0	0~65535	RW	Total Deve Drive Time for band generation K
762-040	BAND_DEVE_ROT_TIME_Y	0	0~65535	RW	Total Deve Drive Time for band generation Y
762-041	BAND_DEVE_ROT_TIME_M	0	0~65535	RW	Total Deve Drive Time for band generation M
762-042	BAND_DEVE_ROT_TIME_C	0	0~65535	RW	Total Deve Drive Time for band generation C
762-043	BAND Cin	60	0~100	RW	Band Cin (Default: 60%)
762-044	BAND COVERAGE LIMIT	75	0~1000	RW	Threshold for Band Execution Judgment
762-045	BAND LENGTH	145	0~1000	RW	Band Length Calculation standard value
762-046	Down Step Timing 1	247	0~1000	RW	the timing of starting Step Down in Step Control (layout difference from BCR: 227ms+20ms)
762-047	Down Step Timing 2	50	0~500	RW	In Step Down in Step Control, Vm 3 hours

Table 12 Deve

Chain-Link	Name	Default	Range	Read/Write	Description
762-048	Down Step Timing 3	50	0~500	RW	In Step Down in Step Control, Vm 2 hours
762-049	Up Step Timing 1	207	0~1000	RW	the timing of starting Step Up in Step Control (layout difference from BCR: 227ms-20ms)
762-050	Up Step Timing 2	50	0~500	RW	In Step Up in Step Control, Vm 2 hours
762-051	Up Step Timing 3	50	0~500	RW	In Step Up in Step Control, Vm 3 hours
762-052	ESCAPE_INT_TIME_HALF_K	8830	0~10000	RW	BW Rest Time (8330ms) in Kesc after speed reduction
762-053	ESCAPE DEVE DC HALF	100	1~1000	RW	Cin (in speed reduction) for generating band for color that passes the development position
762-054	INT_ROT_TIME_FC	693	0~2000	RW	the timing of starting rotating Rotary in FC after speed reduction (693ms before image)
762-055	Deve_Bias_DC_Nominal	570	1~1000	RW	Deve Bias DC Value when Voltage Control Off
762-056	ROT_BAND_WARNING	0	0~1	RW	Whether to rotate Rotary with P/R not in operation
762-057	ROT_TIME_LIMIT	2000	0~5000	RW	Fail Time Threshold (ms) in Home Positioning
762-058	ROT_TIME_SHORT_YMC	2947	2000~4000	RW	the timing of rotating Rotary during Print YMC (1)
762-059	ROT_TIME_SHORT_K	3057	2000~4000	RW	the timing of rotating Rotary during Print K (1)
762-060	ROT_TIME_MID_YMC	1207	0~2000	RW	the timing of rotating Rotary during Print YMC (2)
762-061	ROT_TIME_MID_K	1318	0~2000	RW	the timing of rotating Rotary during Print K (2)
762-062	ROT_TIME_LONG_YMCK	1	0~500	RW	the timing of rotating Rotary during Print YMCK
762-063	CHANGE_INT_RECOVERY	200	0~2000	RW	Wait Time (200ms) in changing color during the recovery operation
762-064	Cartridge First Set UP	0	0~1	RW	Installing Operation at installation 0: Yes 1: No
762-244	DEVE_UNIT_LIFE	420000	0~840000	RW	Developer Unit Life
762-245	DEVE_UNIT_LIFE_WARNING	418500	0~840000	RW	Warning on Developer Unit

Chain 764-xxx Finisher

Table 13 Output Control

Chain-Link	Name	Default	Range	Description
764-002	B-Fin Sleep Mode Recovery Indicate	0	0~1	Indicates whether Finisher has recovered from Sleep Mode. 1: Recovery from Sleep Mode 0: Power ON in any case other than the above
764-003	Fin Decurler On Level	0	-50~50	Curl Amount based on which Finisher Decurler should be turned on
764-004	Fin Sheet Width of Last EjectedSheet	0	0~65535	the width (in steps of 0.1mm) of the top sheet of a stack of paper on Finisher Stacker (Rewrite in Sleep Mode)
764-005	Fin Sheet Length of Last EjectedSheet	0	0~65535	the length (in steps of 0.1mm) of the top sheet of a stack of paper on Finisher Stacker (Rewrite in Sleep Mode)
764-006	Fin Sheet Width of Maximum SizeSheet	0	0~65535	the width (in steps of 0.1mm) of the largest sheet of a stack of paper on Finisher Stacker (Rewrite in Sleep Mode)
764-007	Fin Sheet Length of Maximum SizeSheet	0	0~65535	the length (in steps of 0.1mm) of the largest sheet of a stack of paper on Finisher Stacker (Rewrite in Sleep Mode)

Table 13 Output Control

Chain-Link	Name	Default	Range	Description
764-008	Fin Number Of Ejected Staple Set	0	0~255	the number of to-be-stapled sets ejected on Finisher Stacker (Rewrite in Sleep Mode)
764-009	Fin Mix Sensor Level Indicate	0	0~1	Finisher Stacker Tray Mix SNR position level (Rewrite in Sleep Mode)
764-010	Fin Staple Mode of Last Set	0	0~255	Staple Mode (including unstaple) for the last set on Finisher Stacker (Rewrite in Sleep Mode)
764-011	Fin Mix Stack Enable/Disable	0	0~1	Prohibits stacking mixed-size sheets after detecting the Finisher MIX STCK position 0: Prohibited 1: Not prohibited
764-012	B-Fin Maximum Set Count	50	0~100	the max number of sets that can be stacked on B-Finisher Stacker
764-013	B-Fin Max Compile Sheet Count for Staple	50	10~100	the upper limit on the number of sheets to be compiled for B-Finisher Stapling
764-014	B-Fin Max Compile Sheet Count(Un-Staple/Big)	25	10~100	the upper limit on the number of large sheets to be compiled for B-Finisher Un-Stapling
764-015	B-Fin Max Compile Sheet Count(Un-Staple/Small)	50	10~100	the upper limit on the number of small sheets to be compiled for B-Finisher Un-Stapling
764-016	B-Fin Decurler Detect SW	0	0~1	Indicates whether Decurler Kit is installed in B-Finisher. 0: Not installed 1: Installed
764-017	A-Fin Maximum Set Count	30	0~100	the max number of sets that can be stacked on A-Finisher Stacker
764-018	A-Fin Maximum Compile Sheet Count (Staple/Big)	30	10~100	the upper limit on the number of large sheets to be compiled for A-Finisher Stapling
764-019	A-Fin Maximum Compile Sheet Count (Staple/Small)	50	10~100	the upper limit on the number of small sheets to be compiled for A-Finisher Stapling
764-020	A-Fin Max Compile Sheet Count (Un-Staple/Plain Big)	5	1~25	the upper limit on the number of large plain sheets to be compiled for A-Finisher Un-Stapling
764-021	A-Fin Max Compile Sheet Count (Un-Staple/Plain Small)	10	1~50	the upper limit on the number of small plain sheets to be compiled for A-Finisher Un-Stapling
764-022	A-Fin Max Compile Sheet Count (Un-Staple/Special Paper Big)	5	1~25	the upper limit on the number of large special sheets to be compiled for A-Finisher Un-Stapling
764-023	A-Fin Max Compile Sheet Count (Un-Staple/Special Paper Small)	5	1~50	the upper limit on the number of small special sheets to be compiled for A-Finisher Un-Stapling
764-024	A-Fin Max Compile Sheet Count (Un-Staple/OHP Big)	1	1~25	the upper limit on the number of large transparencies to be compiled for A-Finisher Un-Stapling
764-025	A-Fin Max Compile Sheet Count (Un-Staple/OHP Small)	1	1~50	the upper limit on the number of small transparencies to be compiled for A-Finisher Un-Stapling
764-026	Fin Number Of Ejected Sheet Count	0	0~65535	the number of sheets ejected on Finisher Stacker (Rewrite in Sleep Mode)

Table 1 DADF

Chain-Link	Content	Default	Range	Meaning
710-501	Fax Document Size Detection Method for DADF	0	0~1	Indicates the switching of detection method when Fax Document Size Detection is specified in DADF mode. 0: A/B series, 1: Inch series
710-551	JAM Bypass	0	0~1	0: Do not bypass, 1: Bypass Applies to CVT mode.
710-600	Size Mismatch Jam Detection Setting (Applicable only in Simplex mode)	1	1~2	1: Size Mismatch Jam Detection On 2: Size Mismatch Jam Detection Off
710-603	Alternate Size Set3	0	0~2	PF1: Switches between 11x15S and 11x17S. No-Mix: mm, No-Mix/Size-Mix: Inch13/Inch14,0: Default,1: 11x17S,2: 11x15S PF2: Switches between 11x15S and 11x17S. No-Mix: mm/Inch13/Inch14, Size-Mix: Inch13/Inch14,0: Default,1: 11x17S,2: 11x15S
710-604	Alternate Size Set4	0	0~2	PF1: Switches between 8.46x12.4S, 8.5x13S and 8.5x14S. No-Mix/Size-Mix: mm,0: Default,1: 8.5x13S,2: 8.5x14S PF2: Switches between 8.5x13S and 8.5x14S. No-Mix/Size-Mix: mm Initial value: 2,0: Default,1: 8.5x13S,2: 8.5x14S
710-605	Alternate Size Set5	0	0~2	PF1: Switches between B5S and 16KS. No-Mix: mm,0: Default,1: B5S,2: 16KS PF2: Switches between B5S and 16KS. No-Mix/Size-Mix: mm Initial value: mm,0: Default,1: B5S,2: 16KS
710-606	Alternate Size Set6	0	0~3	PF1: Switches between 8x10S, 8x10.5S and 8.5x11S. Size-Mix: Inch13/Inch14,0: Default,1: 8.5x11S,2: 8x10S,3: 8x10.5S PF2: Switches between 8x10S, 8x10.5S and 8.5x11S. Size-Mix: Inch13/Inch14,0: Default,1: 8.5x11S,2: 8x10S,3: 8x10.5S
710-607	Alternate Size Set7	0	0~3	PF1: Switches between 8x10L, 8x10.5L and 8.5x11L. Size-Mix: Inch13/Inch14,0: Default,1: 8.5x11L,2: 8x10L,3: 8x10.5L PF2: Switches between 8x10L, 8x10.5L and 8.5x11L. Size-Mix: Inch13/Inch14,0: Default,1: 8.5x11L,2: 8x10L,3: 8x10.5L
710-608	Alternate Size Set8	0	0~4	PF2: Switches between B4S, 8KS, 11x15S and 11x17S. Size-Mix: mm,0: Default,1: B4S,2: 8KS 3: 11x15S 4: 11x17S PF2: Switches between B4S, 8KS and 11x17S. Size-Mix: mm,0: Default,1: B4S,2: 8KS 3: 11x17S PF2 setting range is 0~3.
710-609	Alternate Size Set9	0	0~2	PF1: Switches between 8x10S and 8x10.5S. No-Mix: Inch13/Inch14,0: Default,1: 8x10S,2: 8x10.5S PF2: Switches between 8x10S and 8x10.5S. No-Mix: Inch13/Inch14,0: Default,1: 8x10S,2: 8x10.5S
710-610	Alternate Size Set10	0	0~2	PF1: Switches between B5L and 16KL. Size-Mix: mm,0: Default,1: B5L,2: 16KL PF2: Switches between B5L, 16KL and 8.5x11L. Size-Mix: mm,0: Default 1: B5L,2: 16KL 3: 8.5x11L PF2 setting range is 0~3.
710-612	Size-Mix Mode Size Orientation	1	0~1	Switches between LEF and SEF.,0: LEF,1: SEF
710-613	Fax Job Mixed-Sizes Standard Mode	0	0~1	Switches to a size (standard/non-standard) that DADF should report to IISS in Fax Mixed-Sizes Mode. 0: Non-standard Mode 1: Standard Mode

Chain 711-xxx CVT DADF NVM LIST

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-001	DADF Lead Registration Adjustment (Side1) (37.5mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-002	DADF Lead Registration Adjustment (Side1) (50.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-003	DADF Lead Registration Adjustment (Side1) (66.7mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-004	DADF Lead Registration Adjustment (Side1) (75.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-005	DADF Lead Registration Adjustment (Side1) (100.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-006	DADF Lead Registration Adjustment (Side1) (133.3mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-007	DADF Lead Registration Adjustment (Side1) (150.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-008	DADF Lead Registration Adjustment (Side1) (200.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-009	DADF Lead Registration Adjustment (Side1) (300.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-015	DADF Lead Registration Adjustment (Side2) (37.5mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-016	DADF Lead Registration Adjustment (Side2) (50.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-017	DADF Lead Registration Adjustment (Side2) (66.7mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-018	DADF Lead Registration Adjustment (Side2) (75.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-019	DADF Lead Registration Adjustment (Side2) (100.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-020	DADF Lead Registration Adjustment (Side2) (133.3mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-021	DADF Lead Registration Adjustment (Side2) (150.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-022	DADF Lead Registration Adjustment (Side2) (200.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-023	DADF Lead Registration Adjustment (Side2) (300.0mm/sec)	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse)
711-029	DADF Tail Edge Fine Adjustment (Side1) (37.5mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-030	DADF Tail Edge Fine Adjustment (Side1) (50.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-031	DADF Tail Edge Fine Adjustment (Side1) (66.7mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-032	DADF Tail Edge Fine Adjustment (Side1) (75.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-033	DADF Tail Edge Fine Adjustment (Side1) (100.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-034	DADF Tail Edge Fine Adjustment (Side1) (133.3mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-035	DADF Tail Edge Fine Adjustment (Side1) (150.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-036	DADF Tail Edge Fine Adjustment (Side1) (200.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-037	DADF Tail Edge Fine Adjustment (Side1) (300.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-043	DADF Tail Edge Fine Adjustment (Side2) (37.5mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-044	DADF Tail Edge Fine Adjustment (Side2) (50.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-045	DADF Tail Edge Fine Adjustment (Side2) (66.7mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-046	DADF Tail Edge Fine Adjustment (Side2) (75.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-047	DADF Tail Edge Fine Adjustment (Side2) (100.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-048	DADF Tail Edge Fine Adjustment (Side2) (133.3mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-049	DADF Tail Edge Fine Adjustment (Side2) (150.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-050	DADF Tail Edge Fine Adjustment (Side2) (200.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-051	DADF Tail Edge Fine Adjustment (Side2) (300.0mm/sec)	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Tail Edge adjustment = Lead Registration adjustment value + Tail Edge fine adjustment value
711-057	Vertical Ratio Fine Adjustment (37.5mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-058	Vertical Ratio Fine Adjustment (50.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-059	Vertical Ratio Fine Adjustment (66.7mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-060	Vertical Ratio Fine Adjustment (75.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-061	Vertical Ratio Fine Adjustment (100.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-062	Vertical Ratio Fine Adjustment (133.3mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-063	Vertical Ratio Fine Adjustment (150.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-064	Vertical Ratio Fine Adjustment (200.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-065	Vertical Ratio Fine Adjustment (300.0mm/sec)	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor.
711-070	T/A Roll Transport Speed Adjustment (Side1) (37.5mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-071	T/A Roll Transport Speed Adjustment (Side1) (50.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-072	T/A Roll Transport Speed Adjustment (Side1) (66.7mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-073	T/A Roll Transport Speed Adjustment (Side1) (75.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-074	T/A Roll Transport Speed Adjustment (Side1) (100.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-075	T/A Roll Transport Speed Adjustment (Side1) (133.3mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-076	T/A Roll Transport Speed Adjustment (Side1) (150.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-077	T/A Roll Transport Speed Adjustment (Side1) (200.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-078	T/A Roll Transport Speed Adjustment (Side1) (300.0mm/sec)	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-080	T/A Roll Transport Speed Adjustment (Side2) (37.5mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-081	T/A Roll Transport Speed Adjustment (Side2) (50.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-082	T/A Roll Transport Speed Adjustment (Side2) (66.7mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-083	T/A Roll Transport Speed Adjustment (Side2) (75.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-084	T/A Roll Transport Speed Adjustment (Side2) (100.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-085	T/A Roll Transport Speed Adjustment (Side2) (133.3mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-086	T/A Roll Transport Speed Adjustment (Side2) (150.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-087	T/A Roll Transport Speed Adjustment (Side2) (200.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-088	T/A Roll Transport Speed Adjustment (Side2) (300.0mm/sec)	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor.
711-140	DADF Lead Registration Adjustment (Side1) Replace All	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse) Rewrites all data of 711-001 to 711-009 with specified data.
711-141	DADF Lead Registration Adjustment (Side2) Replace All	129	0~214	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -3.9mm (+85 pulse) Rewrites all data of 711-015 to 711-023 with specified data.
711-142	DADF Tail Edge Fine Adjustment (Side1) Replace All	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Rewrites all data of 711-029 to 711-037 with specified data.
711-143	DADF Tail Edge Fine Adjustment (Side2) Replace All	129	0~255	0.0458mm	Initial value 0mm (129 pulse) +5.9mm (-129 pulse) / -5.8mm (+126 pulse) Rewrites all data of 711-043 to 711-051 with specified data.
711-144	Vertical Ratio Fine Adjustment Replace All	20	0~40	0.001	Initial value 0% (20) +/-2% (+/-20), 0.1% increments Adjusts only Top Speed for Feed Motor and Regi Motor. Rewrites all data of 711-057 to 711-065 with specified data.

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-145	T/A Roll Transport Speed Adjustment (Side1) Replace All	15	0~50	0.001	Initial value 1.5% (15) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor. Rewrites all data of 711-070 to 711-078 with specified data.
711-146	T/A Roll Transport Speed Adjustment (Side2) Replace All	0	0~50	0.001	Initial value 0% (0) Maximum 5% (50), Minimum 0% (0), 0.1% increments Adjusts only Top Speed for Feed Motor. Rewrites all data of 711-080 to 711-088 with specified data.
711-150	Loop Amount Adjustment (Side1) (x1 Pulse)	3	0~9	0.6835mm	Initial value 3.6mm (172 pulse, 130 pulse for High Speed mode) +4.1mm/-2.1mm 10 pulse increments
711-151	Loop Amount Adjustment (Side2) (x6 Pulse)	5	0~14	0.4581mm	Initial value 4.0mm (256 pulse) +4.1mm (346 pulse) / -2.3mm (206 pulse) 10 pulse increments
711-152	Simplex Speed Mode Switch	0	0~1	-	0: High Speed mode Off 1: High Speed mode On
711-158	Position Adjustment for End Position during Invert (x4 Pulse)	10	20	0.4581mm	Initial value 31.1mm (450 pulse) +4.6mm (766 pulse) / -4.6mm (566 pulse) 10 pulse increments
711-164	Slow Scan Original Size Correction Value	50	0~100	0.1mm	Correction value for [Size Detection Auto-Correction Function] Original Size Correction Value: +/-5mm
711-200	Position Adjustment for Pre Regist End Position (Original Lead Edge Eject Amount from Regi Roll in x2 Pulse Increments)	8	0~16	0.6249mm	Initial value 0mm (0 pulse) +5.0mm (80 pulse) / -5.0mm (-80 pulse) 10 pulse increments This value also applies to Scan Position Transport Time.
711-201	Position Adjustment for Feed Motor Off Start Position (x3 Pulse)	8	1~15	0.6249mm	Initial value 5.0mm (80 pulse) +4.4mm (150 pulse) / -4.4mm (10 pulse) 10 pulse increments
711-202	Position Adjustment for Position to Start Increasing Speed in Duplex (x5 Pulse)	10	0~20	0.4581mm	Initial value 50.4mm (1080 pulse) +4.6mm (1180 pulse) / -4.6mm (980 pulse) 10 pulse increments
711-203	Position Adjustment for First-Out Pre Feed Position in Duplex (x7 Pulse)	5	0~10	0.6835mm	Initial value 14.6mm (224 pulse) +3.4mm (274 pulse) / -3.4mm (174 pulse) 10 pulse increments
711-204	Position Adjustment for N.R. Solenoid On Position during Invert Output (x8 Pulse)	10	0~20	0.4581mm	Initial value 15.0mm (241 pulse) +4.6mm (341 pulse) / -4.6mm (141 pulse) 10 pulse increments
711-205	Side2 Feed Motor Reverse Start Time Adjustment Value (T1 ms)	4	0~20	4msec	Initial value 0ms +80ms/-20ms, 4ms increments
711-207	Next Feed Start Time Adjustment Value (T3 ms)	5	2~27	4msec	Initial value 0m +88ms/-12ms, 4ms increments
711-208	Simplex Next Pre Regist Start Time Adjustment Value (T4 ms)	6	6~25	4msec	Initial value 4ms +76ms/0ms, 4ms increments
711-209	Invert Start Time Adjustment Value (T6 ms)	5	0~25	4msec	Initial value 0ms +80ms/-20ms, 4ms increments
711-210	N.R. Solenoid On Start Time Adjustment Value during Invert Output (T7 ms)	5	0~15	4msec	Initial value 0ms +40ms/-20ms, 4ms increments
711-211	First-Out Original Feed Start Time Adjustment Value (T8 ms)	5	0~25	4msec	Initial value 0ms +80ms/-20ms, 4ms increments
711-212	Duplex Next Pre Regist Start Time Adjustment Value (T9 ms)	6	6~25	4msec	Initial value 4ms +76ms/0ms, 4ms increments
711-215	Slow Down Start Time Adjustment Value during Nudger Lift Down (T11 ms)	10	0~20	4msec	Initial value 0ms +/-40ms, 4ms increments
711-216	Slow Down Start Time Adjustment Value during Nudger Lift Up (T12 ms)	10	10~20	4msec	Initial value 0ms +40ms/-0ms, 4ms increments
711-217	Feed Out Sensor Static Jam Detection Sampling No. Setting	20	1~40	1 time	Initial value 20 times +20 times/-19 times, 1 time increments

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-218	Feed Out Sensor Act. Correction Coefficient - A9	59	0-255	0.01	Initial value 0.59 0.00~2.55, 0.01 increments
711-219	Feed Out Sensor Act. Correction Coefficient - B9	104	0-255	1	Initial value 104 0-255, 1 increments
711-270	ADF-IIT Combine Adjustment Value Data 1	0	0-255	-	Adjustment Value Data 1 sent to IIT during ADF-IIT Combine.
711-271	ADF-IIT Combine Adjustment Value Data 2	0	0-255	-	Adjustment Value Data 2 sent to IIT during ADF-IIT Combine.
711-272	ADF-IIT Combine Adjustment Value Data 3	0	0-255	-	Adjustment Value Data 3 sent to IIT during ADF-IIT Combine.
711-273	ADF-IIT Combine Adjustment Value Data 4	0	0-255	-	Adjustment Value Data 4 sent to IIT during ADF-IIT Combine.
711-274	ADF-IIT Combine Adjustment Value Data 5	0	0-255	-	Adjustment Value Data 5 sent to IIT during ADF-IIT Combine.
711-275	ADF-IIT Combine Adjustment Value Data 6	0	0-255	-	Adjustment Value Data 6 sent to IIT during ADF-IIT Combine.
711-276	ADF-IIT Combine Adjustment Value Data 7	0	0-255	-	Adjustment Value Data 7 sent to IIT during ADF-IIT Combine.
711-277	ADF-IIT Combine Adjustment Value Data 8	0	0-255	-	Adjustment Value Data 8 sent to IIT during ADF-IIT Combine.
711-278	ADF-IIT Combine Adjustment Value Data 9	0	0-255	-	Adjustment Value Data 9 sent to IIT during ADF-IIT Combine.
711-279	ADF-IIT Combine Adjustment Value Data 10	0	0-255	-	Adjustment Value Data 10 sent to IIT during ADF-IIT Combine.
711-280	ADF-IIT Combine Adjustment Value Data 11	0	0-255	-	Adjustment Value Data 11 sent to IIT during ADF-IIT Combine.
711-281	ADF-IIT Combine Adjustment Value Data 12	0	0-255	-	Adjustment Value Data 12 sent to IIT during ADF-IIT Combine.
711-282	ADF-IIT Combine Adjustment Value Data 13	0	0-255	-	Adjustment Value Data 13 sent to IIT during ADF-IIT Combine.
711-283	ADF-IIT Combine Adjustment Value Data 14	0	0-255	-	Adjustment Value Data 14 sent to IIT during ADF-IIT Combine.
711-284	ADF-IIT Combine Adjustment Value Data 15	0	0-255	-	Adjustment Value Data 15 sent to IIT during ADF-IIT Combine.
711-297	Communication Fail Bypass	0	0-1	-	0: Disable Communication Fail Bypass 1: Enable Communication Fail Bypass
711-468	DADF Open/Close Life Count (upper digits)	3	0-65535	-	260K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.
711-469	DADF Open/Close Life Count (lower digits)	63392	0-65535	-	
711-470	DADF Document Feed Life Count (upper digits)	3	0-65535	-	200K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.
711-471	DADF Document Feed Life Count (lower digits)	3392	0-65535	-	
711-472	DADF Simplex and Duplex Document Feed Life Count (upper digits)	13	0-65535	-	912K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.
711-473	DADF Simplex and Duplex Document Feed Life Count (lower digits)	60032	0-65535	-	
711-474	Invert Solenoid Life Count (upper digits)	7	0-65535	-	500K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.

Chain 715-xxx IISS

Table 3 IISS

Chain-Link	Content	Default	Range	Meaning
715-007	PH_CL_Contone Scan Speed	0	0-1	Switches scan speed in Scan Photographic Printing Paper mode. 0: Half Speed mode 1: Normal Speed mode
715-017	IIT Fail Bypass	0	0-1	0: Fail Bypass Off, 1: Fail Bypass On
715-018	FAN Control Mode	0	0-1	0: Normal mode; 1: M/C for Multiple Stores mode
715-020	No. of APS	1	0-1	0: 1 APS, 1: 2 APS

Table 3 IISS

Chain-Link	Content	Default	Range	Meaning
715-022	Lamp Fan Fail Bypass	1	0~1	Existence or of Lamp Fan Fail Detection 0: Lamp Fan Fail Detection existent 1: Lamp Fan Fail Detection not existent
715-023	Lamp Fan On Time (Low Rotation)	15	0~60	Lamp Fan On at Low Speed time (in minute)
715-024	Lamp Fan Off Time	1	0~60	Lamp Fan Off time (in minute)
715-025	FL Timer Set	0	0~1	0: Standard FL Timer settings (30min rest/0.5sec On), 1: Condensation mode setting (Diag 715-026, 715-027 timer settings apply)
715-026	Lamp ON Interval	30	0~60	Interval setting (unit: min)
715-027	Lamp ON Time	1	0~60	Lamp ON time setting (unit: sec)
715-030	IIT Failure Part Diagnosis	1	0~65535	Writing 1 allows starting diagnostics of a failed IIT part. Reading this NVM after diagnostics is made on a failed part makes a certain presumed part No. appear. If a fail occurs during diagnostics of a failed part, Fail Code associated with the fail is logged in this NVM and the diagnostics ends. *Even if 1 is written, 1 is not actually done. *If any value other than 1 is entered, the value becomes illegal.
715-050	Platen SS Registration Adjustment	100	16~184	Slow Scan Direction Regi Correction Value (0.036mm/increment), Factory Settings
715-051	Platen SS Reduce/Enlarge Adjustment	50	44~56	Slow Scan Direction Regi Correction Value (0.1%/increment), Factory Settings
715-052	Platen Glass Type	2	0~2	0: Platen model, 1: Belt DADF, 2: CVT, Factory Settings
715-053	Platen PRadjF	120	0~240	Fast Scan Direction Regi Correction Value (Dot), VLSS=PROMVLSS+(PRadjF-120)x2, Factory Settings
715-056	CVT FS Offset Side1-1 (139.7-148)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-057	CVT FS Offset Rear Side2-1 (139.7~148)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-058	CVT FS Offset Side1-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-059	CVT FS Offset Side2-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-060	CVT FS Offset Side1-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-061	CVT FS Offset Side2-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-062	CVT FS Offset Side1-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-063	CVT FS Offset Side2-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-064	CVT FS Offset Side1-5 (214.9-215.9)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-065	CVT FS Offset Side2-5 (214.9-215.9)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-066	CVT FS Offset Side1-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-067	CVT FS Offset Side2-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-068	CVT FS Offset Side1-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-069	CVT FS Offset Side2-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-070	CVT FS Offset Side1-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-071	CVT FS Offset Side2-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-072	CVT FS Offset Side1-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-073	CVT FS Offset Side2-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-074	CVT FS Offset Side3-1 (139.7-148)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-075	CVT FS Offset Side4-1 (139.7-148)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-076	CVT FS Offset Side3-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings

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Chain-Link	Content	Default	Range	Meaning
715-077	CVT FS Offset Side4-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-078	CVT FS Offset Side3-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-079	CVT FS Offset Side4-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-080	CVT FS Offset Side3-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-081	CVT FS Offset Side4-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-082	CVT FS Offset Side3-5 (214.9-215.9)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-083	CVT FS Offset Side4-5 (214.9-215.9)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-084	CVT FS Offset Side3-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-085	CVT FS Offset Side4-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-086	CVT FS Offset Side3-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-087	CVT FS Offset Side4-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-088	CVT FS Offset Side3-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-089	CVT FS Offset Side4-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-090	CVT FS Offset Side3-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-091	CVT FS Offset Side4-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (0.1mm/increment) in CVT. Factory Settings
715-092	WREF_ADJ_Red	140	70~255	Red W-Ref correction coefficient, Factory Settings
715-093	WREF_ADJ_Green	140	70~255	Green W-Ref correction coefficient, Factory Settings
715-094	WREF_ADJ_Blue	140	70~255	Blue W-Ref correction coefficient, Factory Settings
715-102	WREF_Offset_Red	63	0~127	Red W-Ref Correction Coefficient; Correction for individual sheets of paper
715-103	WREF_Offset_Green	63	0~127	Green W-Ref Correction Coefficient; Correction for individual sheets of paper
715-104	WREF_Offset_Blue	63	0~127	Blue W-RefCorrection Coefficient; Correction for individual sheets of paper
715-106	IIT Paper Code	0	0~8	0: NVM uses coefficient for each individual paper type 1: J paper, 2: P paper, 3: C2 paper, 4: Green100 paper, 5: Digital Color Xpression, 6: Color Tech+, 7: Xerox4200 paper, 8: Xerox Business
715-107	Nut_Angle_Front	990	0~1980	Light Axis Front Nut rotation angle (990~1980: Right revolution angle, 0~990: Left revolution angle)
715-108	Nut_Angle_Rear	990	0~1980	Light Axis Rear Nut rotation angle (990~1980: Right revolution angle, 0~990: Left revolution angle)
715-118	Ctracs Lamp On Wait Time	0	0~300	Lamp On Wait Time before auto gradation adjustment (in sec)
715-119	WREF Lamp On Wait Time	0	0~300	Lamp On Wait Time before W-Ref correction (in sec)
715-201	ACS Detection Level Extension	0	0~1	0: Normal; 1: Extend adjustment range
715-241	Black Line Correction Level Value (for Color)	8	0~15	Black Line Correction Strength Level Setting when reading Color, the larger the value, the stronger the correction strength ("0" means correction reset).
715-242	Black Line Correction Level Value (for BW)	8	0~15	Black Line Correction Strength Level Setting when reading BW, the larger the value, the stronger the correction strength ("0" means correction reset).
715-243	DCIC TEST MODE	0	0~7	Test Mode Setting for Designing Black Line Correction Parameter, "0" means normal operation.
715-249	DCIC Level for White Line	8	0~15	Sets White Line detection strength level for background. As the value is larger, detection strength increases. ("0" clears the detection.)
715-250	DCIC Original Level for Black Line	8	0~15	Sets Black Line detection strength level for original image. As the value is larger, detection strength increases. ("0" clears the detection.)
715-251	DCIC Original Level for White Line	8	0~15	Sets Black Line detection strength level for original image. As the value is larger, detection strength increases. ("0" clears the detection.)
715-252	DCIC Detection Result	0	0~1	Result of abnormal garbage detection. "1" indicates abnormal garbage has been detected.
715-280	HOSEI_SCAN (for detection)	3	0~6	Correction Coefficient No "Factory Settings"
715-281	HOSEI_SCAN (for image)	3	0~6	Correction Coefficient No "Factory Settings"

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Chain-Link	Content	Default	Range	Meaning
715-282	CCD Calib Y Scan Red	0	0~1023	CCD Calib Y patch when reading Red (Reflectivity LSB) "Factory Settings"
715-283	CCD Calib Y Scan Green	0	0~1023	CCD Calib Y patch when reading Green (Reflectivity LSB) "Factory Settings"
715-284	CCD Calib Y Scan Blue	0	0~1023	CCD Calib Y patch when reading Blue (Reflectivity LSB) "Factory Settings"
715-285	CCD Calib M Scan Red	0	0~1023	CCD Calib M patch when reading Red (Reflectivity LSB) "Factory Settings"
715-286	CCD Calib M Scan Green	0	0~1023	CCD Calib M patch when reading Green (Reflectivity LSB) "Factory Settings"
715-287	CCD Calib M Scan Blue	0	0~1023	CCD Calib M patch when reading Blue (Reflectivity LSB) "Factory Settings"
715-288	CCD Calib C Scan Red	0	0~1023	CCD Calib C patch when reading Red (Reflectivity LSB) "Factory Settings"
715-289	CCD Calib C Scan Green	0	0~1023	CCD Calib C patch when reading Green (Reflectivity LSB) "Factory Settings"
715-290	CCD Calib C Scan Blue	0	0~1023	CCD Calib C patch when reading Blue (Reflectivity LSB) "Factory Settings"
715-291	CCD Calib PK Scan Red	0	0~1023	CCD Calib PK patch when reading Red (Reflectivity LSB) "Factory Settings"
715-292	CCD Calib PK Scan Green	0	0~1023	CCD Calib PK patch when reading Green (Reflectivity LSB) "Factory Settings"
715-293	CCD Calib PK Scan Blue	0	0~1023	CCD Calib PK patch when reading Blue (Reflectivity LSB) "Factory Settings"
715-300	A6/Postcard Detection	0	0~2	0: Table default 1: A6SEF 2: PostcardSEF (mm series) or PostcardSEF (Inch series)
715-302	A4S/8.5in Detection 2	3	0~6	0: 210mm, 1: 211mm, 2: 212mm, 3: 213mm, 4: 214mm, 5: 215mm, 6: 216mm
715-303	B5/8x10 Detection	0	0~3	0: Table default 1: B5LEF or ExecutiveLEF 2: 8x10LEF/8x10.5LEF 3: Off
715-305	8.5x13/8.5x14 Detection	0	0~3	0: Table default 1: 12.4inch 2: 13inch 3: 14inch
715-306	Original Detection Table for Special Paper	0	0~2	0: Do not use Special Table 1: APS OFF, A4; APS ON, A3 2: APS OFF, Letter; APS ON, 17inch
715-307	Original Size Detection Table Switch	2	1~5	1: Inch13-2 2: mm-2 3: mm 4: Inch13-1 5: Inch14
715-308	5.5x8.5/Postcard Detection	0	0~2	0: Table default 1: A5SEF or 5.5x8.5SEF 2: PostCardLEF
715-310	A3/11x17 Detection	0	0~3	0: Table default 1: A3SEF 2: 11x17SEF 3: A3SEF, 11x17SEF
715-311	A4/8.5x11 Detection	0	0~3	0: Table default 1: A4LEF 2: 8.5x11LEF 3: 8.5x11LEF, A4LEF
715-312	A6S Threshold	90	50~110	Changes fast scan threshold for non-standard, Postcard SEF and A6SEF. If any value out of the range of 50 to 110 is set up, fast scan threshold shall be 90mm. 50: 50mm or more; 110: 110mm (1mm/step)
715-344	Original Size Detection, Platen Background Countermeasure for Dirt	0	0~1	0: Detection by 4 registers 1: Detection by 3 registers (countermeasure for dirt)
715-345	GCO/TFX Size Switch	1	0~1	0: GCO (16K/8K=270x195/270x390) 1: TFX (16K/8K=267x194/267x388)
715-346	B4/8K Fast Scan Threshold Value Setting	3	0~6	0: 256mm, 1: 258mm, 2: 260mm, 3: 262mm, 4: 264mm, 5: 266mm, 6: 268mm
715-347	8K/11x17SEF Fast Scan Threshold Value Setting	3	0~6	0: 269mm, 1: 271mm, 2: 273mm, 3: 275mm, 4: 277mm, 5: 279mm, 6: 281mm
715-349	B6/5x7 Detection	0	0~2	0: Table default 1: B6SEF 2: 5x7SEF
715-362	FL_CHK_NG_Count	0	0~65535	Lamp Check NG Count (Reset when lamp is replaced)
715-363	FL_CHK_NG_Data	0	0~1023	Data obtained when Lamp Check Fails (Read G Write data compared at checking)
715-418	AOCerr	0	0~255	No. of times the AOC flow has ended abnormally
715-550	BW Copy during AE BGR-AE Adjustment Level (Text/Photo)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy

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Chain-Link	Content	Default	Range	Meaning
715-551	Color Copy at during AE BGR-AE Adjustment Level (Text/Photo)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-552	BW Copy during AE BGR-AE Adjustment Level (Text)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-553	Color Copy at during AE BGR-AE Adjustment Level (Text)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-554	BW ContoneScan during AE BGR-AE Adjustment Level (Text/Photo)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-555	Color ContoneScan during AE BGR-AE Adjustment Level (Text/Photo)	0	0~4095	Value (0~15) x 3 = Erase Amount (8bit conversion) (x12 for 10bit conversion) Lower digits 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-600	AE1 FS External Area	255	0~65535	High Speed AE/Fast Scan Direction undetected area INSTV At SMPST, SMPED setting
715-601	AE2 FS External Area	255	0~65535	High Speed AE/Fast Scan Direction undetected area INSTV At SMPST, SMPED setting
715-602	AE3 FS External Area	255	0~65535	High Speed AE/Fast Scan Direction undetected area INSTV At MAEFST, MAEFSE setting (* Area used as detection area is used for PreIPS noise removal as well)
715-603	AE4 FS External Area	255	0~65535	High Speed AE/Fast Scan Direction undetected area INSTV At SMPST, SMPED setting
715-604	Line to Fix Variation	60	0~65535	High Speed AE/Slow Scan Direction variable fixed position/NCON, Slow Scan Edge AE Detection Amount (0.16mm increments)
715-605	HAE Line to Fix Variation	240	0~65535	High Speed AE/Slow Scan Direction End position, Slow Scan Edge AE Detection Amount HAESSE
715-606	MAE Line to Fix Variation	240	0~65535	High Speed AE/Slow Scan Direction End position, Slow Scan Edge AE Detection Amount MAESSE
715-607	NAE Line to Fix Variation	240	0~65535	High Speed AE/Slow Scan Direction End position, Slow Scan Edge AE Detection Amount NAESSE
715-608	Variation Control for BW Copy	1	0~1	LIM Control mode
715-609	Variation Control for Color Copy	1	0~1	LIM Control mode
715-610	Variation Control for FAX, BinScan	1	0~1	LIM Control mode
715-611	Variation Control for ContoneScan	1	0~1	LIM Control mode
715-612	Background Color Suppression Threshold Value (HAE)	127	0~255	HAE Histogram threshold value Specify using 100/255% increments. HAETH
715-613	Background Color Suppression Threshold Value (NAE1)	33	0~255	NAE Block Count Threshold (Color Block Count Threshold) Set in 100/255% increments. NAEBLK-THC
715-614	Background Color Suppression Threshold Value (NAE2)	204	0~255	NAE Block Count Threshold (Specified Color Block threshold value) Set in 100/255% increments. NAEBLKTHY

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Chain-Link	Content	Default	Range	Meaning
715-615	Background Color Suppression Threshold Value (NAE3)	8	0~65535	NAE Color Line threshold value Specify the no. of lines. NAETHC
715-616	Background Color Suppression Threshold Value (NAE4)	4	0~65535	NAE Color Line threshold value Specify the no. of lines. NAETHY
715-617	AE Control of FS Length	0	0~1	0: Always use the document size detection result 1: Use the input document size as the detection size For AES parameter calculation.
715-618	Minimum FS Length for AE	500	0~65535	Fast Scan Detection Min range (0.1mm increments) For AES parameter calculation.
715-619	AE Parameter Slow Scan Enlargement Correction Upper Limit 1	4000	0~4000	Slow Scan Detection Max range (0.1mm increments) For RAE.
715-620	AE Parameter Slow Scan Enlargement Correction Upper Limit 2	4000	0~4000	Slow Scan Detection Max range (0.1mm increments) For MAE.
715-621	AE Parameter Slow Scan Enlargement Correction Upper Limit 3	4000	0~4000	Slow Scan Detection Max range (0.1mm increments) For HAE.
715-622	AE Parameter Slow Scan Enlargement Correction Upper Limit 4	4000	0~4000	Slow Scan Detection Max range (0.1mm increments) For NAE.
715-629	TX_BW_Fax Offset Level of AE (Normal, Pencil)	0	0~8191	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-630	TP_BW_Copy_Fax Suppression Level of AE (Print, Photograph, Copy)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-631	TP_BW_Copy_Fax Offset Level of AE (Print, Photograph, Copy)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-632	TX_BW_Copy_Fax Suppression Level of AE (Normal, Pencil Text)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF. 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-633	TX_BW_Copy_Fax Offset Level of AE (Normal, Pencil Text)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-634	TPL_BW_Copy_Fax Suppression Level of AE (Light Document)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-635	TPL_BW_Copy_Fax Offset Level of AE (Light Document)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-636	TRP_BW_Copy_Fax Suppression Level of AE (Tracing Paper)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)

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Chain-Link	Content	Default	Range	Meaning
715-637	TRP_BW_Copy_Fax Offset Level of AE (Tracing Paper)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-638	Background Color Suppression Level Text/Photo Mode (Print, Photograph Paper, Inkjet, Highlighted) for Color Copy.	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy Tools and coupling (Determine the Parameter Selection Level by adding the tool value (level 0 to 4) and the NVM Level (level 0 to 4). If the total is Level 4 and above, it is determined as Level 4) (* Also used by the PreIPS EAER_DAT Removal Level)
715-639	Background Color Suppression Offset Level Text/Photo Mode (Print, Photograph Paper, Inkjet, Highlighted) for Color Copy	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-640	Background Color Suppression Level Text (Normal) for Color Copy	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy Tools and coupling (Determine the Parameter Selection Level by adding the tool value (level 0 to 4) and the NVM Level (level 0 to 4). If the total is Level 4 and above, it is determined as Level 4) (* Also used by the PreIPS EAER_DAT Removal Level)
715-641	Background Color Suppression Offset Level Text (Normal) for Color Copy	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-642	TP_BW_Contone Suppression Level of AE	819	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-643	TP_BW_Contone Offset Level of AE	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-644	woTP_BW_Contone Suppression Level of AE	819	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-645	woTP_BW_Contone Offset Level of AE	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy

Table 3 IISS

Chain-Link	Content	Default	Range	Meaning
715-646	Color Contone Scan Background Color Suppression Level (Text/Photo)	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy Tools and coupling (Determine the Parameter Selection Level by adding the tool value (level 0 to 4) and the NVM Level (level 0 to 4). If the total is Level 4 and above, it is determined as Level 4) (* Also used by the PreIPS EAER_DAT Removal Level)
715-647	Color Contone Scan Background Color Suppression Offset Level (Text/Photo)	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-648	Color Contone Scan Background Color Suppression Level (other than Text/Photo)	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy (* Also used by the PreIPS EAER_DAT Removal Level)
715-649	Color Contone Scan Background Color Suppression Offset Level (other than Text/Photo)	0	0~4095	0: Strength Level 0 (Standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 or above: Level 0 (Standard) 0bit~3bit, Platen 4Bit~7Bit CVT or DADF machine 8Bit~11Bit CVT or DADF machine 2 Sided Copy
715-660	2 Sided AE Control Parameter Lower Limit Multiplication Coefficient	0	0~255	Used when calculating the HAE background value. 1/255 units. 255 indicates 1.
715-661	2 Sided AE Control Parameter Upper Limit Multiplication Coefficient	255	0~255	Used when calculating the HAE background value. Set as Upper limit multiplication coefficient + Lower limit multiplication coefficient = 255 1/255 units. 255 indicates 1.
715-662	2 Sided AE Control Parameter Relative Margin OFST	8	0~255	The value added (or subtracted) when comparing the RAE background value and the HAE background value. When the value is large, Side2 cannot be selected.
715-663	2 Sided AE Control Parameter Background Level Threshold Value LEVEL_N	16	0~255	The value used to compare with the HAE background value when selecting 2 Sided. 2 Sided is not selected if this NVM is not reached for the HAE background value.
715-664	2 Sided AE Control Parameter Forced Selection	3	0~3	0: 2 Sided AE Control 1: Forced Side 1 (L0) Selection. 2: Force Side2 (L1) output
715-668	Dual Color Copy Control	0	0~1	Dual Color Copy Control. DLUT Parameter Selection Factor 0: Normal 1: Black (emphasize BW)
715-669	Control of Tracing Paper Mode	0	0~1	0:,Normal, 1: Tracing Paper mode (* Used as PreIPS C mode as well)
715-680	Default Value Color Balance Adjustment Level Y Color Low density	4	0~8	Default Value Color Balance Adjustment Level Y Color Low density
715-681	Default Value Color Balance Adjustment Level Y Color Medium density	4	0~8	Default Value Color Balance Adjustment Level Y Color Medium density
715-682	Default Value Color Balance Adjustment Level Y Color High density	4	0~8	Default Value Color Balance Adjustment Level Y Color High density
715-683	Default Value Color Balance Adjustment Level M Color Low density	4	0~8	Default Value Color Balance Adjustment Level M Color Low density

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Chain-Link	Content	Default	Range	Meaning
715-684	Default Value Color Balance Adjustment Level M Color Medium density	4	0~8	Default Value Color Balance Adjustment Level M Color Medium density
715-685	Default Value Color Balance Adjustment Level M Color High density	4	0~8	Default Value Color Balance Adjustment Level M Color High density
715-686	Default Value Color Balance Adjustment Level C Color Low density	4	0~8	Default Value Color Balance Adjustment Level C Color Low density
715-687	Default Value Color Balance Adjustment Level C Color Medium density	4	0~8	Default Value Color Balance Adjustment Level C Color Medium density
715-688	Default Value Color Balance Adjustment Level C Color High density	4	0~8	Default Value Color Balance Adjustment Level C Color High density
715-689	CL Balance Def K / Low Density	4	0~8	Default Color Balance Adjustment Level K Color Low Density
715-690	CL Balance Def K / Medium Density	4	0~8	Default Color Balance Adjustment Level K Color Medium Density
715-691	CL Balance Def K / High Density	4	0~8	Default Color Balance Adjustment Level K Color High Density
715-702	PLTN/Belt FS Reduce/Enlarge Adjustment	50	0~100	Fine adjustment for Fast Scan Direction Reduce/Enlarge ratios. Specify within the range of 0 and 100 in increments of 1. The value indicates the fine adjustment with 0=-5%, 50=0% and 100=5% at +/-5% (0.1% increments). (No adjustment in Factory Settings)
715-703	CVT FS Reduce/Enlarge Adjustment	50	0~100	Fine adjustment for Fast Scan Direction Reduce/Enlarge ratios. Specify within the range of 0 and 100 in increments of 1. The value indicates the fine adjustment with 0=-5%, 50=0% and 100=5% at +/-5% (0.1% increments). (No adjustment in Factory Settings)
715-704	IPS Through Setting1	0	0~65535	IPS Through Setting 1. Force to skip Image Processing functions at memory sample scan. Change a value at S/W & H/W DEBUG. Always set "0" in normal use. (Handle with care) --The usage is as follows: Whether to execute/force to skip functions is assigned to each bit. However, you can specify multiple bits at a time. [PF1] [PF2],D'0: AES BEXG_TH,D'1: DF39 FSRE_TH,D'2: SSR SSR_TH,D'3: FSRE NSP_TH,D'4: NSP AER_TH,D'5: 4DLUT TRC2_TH,D'6: 5AER ED_TH,D'7: 5MUL SEL_TH,D'8: 5MWA SEL2_TH,D'9: 4AER (spare),D'10: 4MUL (spare),D'11: TRC (spare),D'12: ED (spare),D'13: DIRECT (spare),D'14: (spare) (spare),D'15: (spare) (spare) The specified bit value is: B'0: Unchanged, B'1: Forced to skip.
715-705	IPS Through Setting2	0	0~65535	IPS Through Setting 2 Set the 4DLUT Bypass mode. This setting is valid only when IPS Bypass Setting1 is set to force skip 4DLUT. Change a value at S/W & H/W DEBUG. 0: L*a*b* through from Y block 1: L*a*b* through from M block 2: L*a*b* through from C block 3: L*a*b* through from K block 4: L* through from YMCK block 5: a* through from YMCK block 6: b* through from YMCK block 7~65535: 0h output
715-720	Normal Density Text (BW Copy)	128	0~256	B/W COPY Text Normal Density Adjustment
715-721	High Density Text (BW Copy)	128	0~256	B/W COPY Text Darker 3 Density Adjustment
715-722	Normal Density Text (Scan/Fax)	128	0~256	Scan/FAX Text Normal Density Adjustment
715-723	High Density Text (Scan/Fax)	128	0~256	Scan/FAX Text Darker 3 Density Adjustment
715-724	PLTN RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for Platen model. BASE, HAEST, MAEST, NAEST

Table 3 IISS

Chain-Link	Content	Default	Range	Meaning
715-725	DADF-P-Job RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for DADF model Platen job. Or, Slow Scan Non-detection area Setup Value at Real Time AE for CVT job. BASE, HAEST, MAESST, NAESS
715-726	DADF-D-Job RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for DADF model DADF job. BASE, HAEST, MAESST, NAESS
715-780	Hue Angle B Starts	270	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-781	Hue Angle B Ends	320	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-782	Hue Angle G Starts	110	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-783	Hue Angle G Ends	200	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-784	Hue Angle R Starts	350	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-785	Hue Angle R Ends	60	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-786	Hue Angle Y Starts	60	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-787	Hue Angle Y Ends	120	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-788	Hue Angle M Starts	320	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-789	Hue Angle M Ends	360	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-790	Hue Angle C Starts	360	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-791	Hue Angle C Ends	360	0~360	1 degree increments. It means End to 360 and 0 to Start when Start > End.
715-800	IISS-DADF Communication Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-801	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-802	IISS-Controller Communication Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-803	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-804	DADF EEPROM Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-805	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-808	CRG Position Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-809	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-810	IISS LOGIC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-811	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-814	Lamp Illumination Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-815	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-816	CRG Over Run Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-817	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-822	AGC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-823	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-824	AOC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-825	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-826	IPS PWBA Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-827	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-840	IPS PWBA Memory Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-841	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-856	IIT Hot Line Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-857	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)

Table 3 IISS

Chain-Link	Content	Default	Range	Meaning
715-860	Scan Replacement Life Count (upper digits)	91	0~65535	Scan Replacement Life Count (upper digits) (Write not permitted): 6,000,000 times (including Pre Scan)
715-861	Scan Replacement Life Count (lower digits)	36224	0~65535	Scan Replacement Life Count (lower digits) (Write not permitted)
715-875	Lamp On Time Replacement Life Count (upper digits)	109	0~65535	Lamp On Time Replacement Life Count (upper digits) (Write not permitted): 7,200,000 sec (2,000 hr)
715-876	Lamp On Time Replacement Life Count (lower digits)	56576	0~65535	Lamp On Time Replacement Life Count (lower digits) (Write not permitted)
715-890	Lamp On Replacement Life Count (upper digits)	91	0~65535	Lamp On Replacement Life Count (upper digits) (Write not permitted): 6,000,000 times
715-891	Lamp On Replacement Life Count (lower digits)	36224	0~65535	Lamp On Replacement Life Count (lower digits) (Write not permitted)

Chain 719-xxx Configuration

Table 4 Configuration

Chain-Link	Name	Default	Range	Remarks
719-008	Market Information	0	0~3	0: FX, 1: AP, 2: XC, 3: XE
719-009	IISS Major Version	0	0~65535	IISS Major Version No. (Same as when downloaded)
719-010	IISS Minor Version	0	0~65535	IISS Minor Version No. (Same as when downloaded)
719-011	IISS Revision Version	0	0~65535	IISS Revision Version No. (Same as when downloaded)
719-012	IISS Patch Version	0	0~65535	IISS Patch Version No. (Same as when downloaded)
719-013	ADF Major Version	0	0~65535	ADF Major Version No. (Same as when downloaded)
719-014	ADF Minor Version	0	0~65535	ADF Minor Version No. (Same as when downloaded)
719-015	ADF Revision Version	0	0~65535	ADF Revision Version No. (Same as when downloaded)
719-016	ADF Patch Version	0	0~65535	ADF Patch Version No. (Same as when downloaded)
719-017	IPL Version	0	0~65535	IPL Version No.
719-018	Black Line Suppression FPGA Version	0	0~65535	Black Line Suppression FPGA Version No.

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-061	FAX Card Availability	-2~0	-	Read	0: Normal, -1: Error, -2: Not installed
700-064	Availability of Fax Card for Ch0 Installed by Host. (It is good that the Fax Card performs only auto detection.)	0~1	0: Off	Read/Write	0: OFF, 1: ON
700-071	USB Port Receive Buffer	64~1024	64KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-073	Page Memory Size (Volume)	-	-	Read	bytes (Auto Setting)
700-075	ART User Definition Memory (Valid only when the machine is installed with the ART/Emulation option)	32~2048	32KB	Read/Write	[32KB~2048KB](32KB increments) Unit: Kbyte
700-076	PostScript Memory (Valid only when PS option is installed)	8~96	24MB (24*1024)	Read/Write	[8MB~96MB](0.25MB increments) Unit: Kbyte
700-078	Form Data Memory (ART and ESC/P) (Valid only when the machine is installed with the ART/Emulation option and not installed with the HDD.)	128~2048	128KB	Read/Write	[128KB~2048KB]Unit: Kbyte
700-080	HPGL/Auto Layout Memory (Valid only when the machine is installed with the ART/Emulation option and not installed with the HDD.)	64~5120	64KB	Read/Write	[64KB~5120KB](32KB increments) Unit: Kbyte
700-081	Parallel (IEEE1284) Port	64~1024	64KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-082	Port9100 Port	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-083	lpd: Spool Off	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-084	NetWare	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-085	AppleTalk (EtherTalk)	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-086	SMB: Spool Off	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-087	IPP: Spool Off	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-088	Salutation	64~1024	256KB	Read/Write	[64KB~1MB](32KB increments) Unit: Kbyte
700-089	HDD Availability	-2~0	-	Read	0: Yes, -1: Error, -2: No (Auto Detect)
700-100	Enable/Disable the Setting of Forced Warmup Mode	0, 1	0: Cannot be set	Read/Write	0: Cannot be set, 1: Can be set
700-109	Forced Warmup Mode	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-110	Specify Start Time for Forced Warmup (Hour)	0~23	8 (Hour)	Read/Write	0-23 (Hour)
700-111	Specify Start Time for Forced Warmup (Min)	0~59	0 (Min)	Read/Write	0-59 (Min)

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-120	Time Zone	-600~+600	: +540(FX Default) +600 (AP default) -300 (XC default)	Read/Write	Displays the time difference from GMT. For example, Japan: 540, Hawaii: -600
700-124	Auto Clear Timer (Combining Auto Resume Timer, Auditor Off Timer and Tools Off Timer)	0~240	1min (MF: 60, P: 1)	Read/Write	Input from the menu is MF: 0 (Disable), 60, 120, 180, 240 (sec), P: 0 (Disable), 1~30 (min) 0 (prohibit)~240 can be entered from ChainLink for MF and P but they must be within the range specified above.
700-125	Job Cancel Timer	0~5940	10min	Read/Write	0, 240~5940: [Disable, 4~99min](1min increments) (The MF-UI SOD has a different value.)
700-126	Operating Timer	0~240	10sec	Read/Write	0: Not started, 1~240: [1~240sec](1sec increments)
700-127	Job End Timer	0~240	6sec	Read/Write	0: Not started, 1~240: [1~240sec](1sec increments)
700-128	Scanning Timer	1~20	4sec, 3sec (Allagash only)	Read/Write	1~20: [1~20sec (1sec increments)]
700-129	Low Power Mode Timer	1~240	15min	Read/Write	1~240: [1~240min (1min increments)], (Ignored if Low Power mode is disabled)
700-130	Sleep Mode Timer	1~240	60min	Read/Write	1~240: [1~240min (1min increments)], (Ignored if Sleep Mode is disabled)
700-131	Sleep Mode Availability Setting	0~1	1: Enable	Read/Write	0: Not valid, 1: Valid
700-132	Operation Panel Normal Input Beep	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-133	Operation Panel Error Input Beep	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-134	Normal Completion Beep (Copy)	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-135	Normal Completion Beep (Other than Copy)	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-136	Abnormal Warning Beep	0~3	0: Off	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud (For P Models, there is no volume adjustment. Any setting in soft, normal or loud means On.)
700-137	Abnormal Completing Beep	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-138	Ready Beep	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-139	Toner Empty Warning Beep	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-140	Bell Tone	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-141	Line Monitor Tone	0~3	2: Normal	Read/Write	1: Soft, 2: Normal, 3: Loud
700-142	Low Power Mode Availability Setting	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
700-143	Job Memory Entry Tone	0~3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-144	Job History Report Auto Output Specification	0~1	0: OFF	Read/Write	0: OFF, 1: ON
700-145	Duplex Printing Specification	0~1	0: OFF	Read/Write	0: OFF, 1: ON
700-146	Mail Box Receive Notification Report Output Specification	0~1	ON	Read/Write	0: OFF, 1: ON

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-147	Protocol Monitor Output Control	0-2	0: When print instruction is specified	Read/Write	0: When print instruction is specified, 1: When error occurs, 2: Always
700-148	Broadcast/Multi-Poll Report Output Control	0-1	1: Print	Read/Write	0: Do not print, 1: Print
700-149	Relay Broadcast Report Output Setting	0-3	1: Send to Relay Station	Read/Write	0: Off, 1: Send to Relay Station, 2: Print to Local, 3: Send to Relay Station & Print to Local
700-150	Activity Report Output Setting	0-1	1: Print	Read/Write	0: Do not print, 1: Print
700-151	Unsend Report Output	0-2	1: ON	Read/Write	0: OFF, 1: ON, 2: Always Print CAUTION <i>Transmission reports can only be printed from the Panel. However, with Transmission Report=On, when sending fails, undelivered reports will be printed.</i>
700-152	Unsend Report Output Setting when sending is stopped	0-1	0: Do not print	Read/Write	0: Do not print, 1: Print
700-153	Abnormal Warning Beep (Out of paper)	0-3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-154	Auto Clear Pre Notify Tone	0-3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-155	Base Point Tone	0-3	2: Normal	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-164	Language Information	1-32	1: Japanese (FX), 2: English (AP/XC)	Read/Write	1: Japanese, 2: English, 3: French, 4: German, 5: Italian, 6: Spanish, 7: Portuguese, 8: Russian, 9: Chinese, 10: Korean, 11: Thai, 12: Vietnamese, 13: Chinese (Taiwan), 14: Dutch, 15: Danish, 16: Swedish, 17: Finnish, 18: Norwegian, 19: Portuguese (Brazil), 20: Bulgarian, 21: Polish, 22: Hungarian, 23: Romanian, 24: Czech, 25: Greek, 26: Turkish, 27: Arabic, 28: Persian, 29: Hebrew
700-165	Area Code / SEEPROM (uses ISO3166 values): Key Code to change the system data default value to the target value in the EPROM compatible for multiple Area.	-	Depends on factory settings	Read/Write	0 = Undefined, 840 =USA, 124=Canada, 076=Brazil, 826=UK, 276=Germany, 380=Italy, 250=France, 724=Spain, 528=Holland, 756=Swiss, 752=Sweden, 056=Belgium, 040=Austria, 620=Portugal, 246=Finland, 208=Denmark, 578=Norway, 300=Greece, 372=Ireland, 036=Australia, 554=New Zealand, 360=Indonesia, 702=Singapore, 458=Malaysia, 608=Philippin, 764=Thailand, 344=Hong Kong, 704=Vietnam, 392=Japan, 158=Taiwan, 410=Korea, Mexico=484, Chile=152, Argentina=032, Venezuela=862, Columbia=170, Peru=604, India=356, Egypt=818, South Africa=710, Turkey=792, Russia=643, Czech Republic=203, Poland=616, Hungary=348, Romania=642, Bulgaria=100, Morocco=504, 156=China
700-171	KO Tools Entry Password	-	11111 (five one's)	Read/Write	P Models: 0-9 (ASCII) 4 digits. MF Model: 0-9 (ASCII) 4 digits~12 digits
700-173	Off Hook Alarm (XE) Added on 2000.12.19	0-3	2 (XE)	Read/Write	0: Off, 1: Soft, 2: Normal, 3: Loud
700-175	Display position of remote terminals on Activity Report	0-1	0: Displays lead edge in 40 digits	Read/Write	0: Displays 40 digits in lead edge, 1: Displays the 40 digits in rear edge
700-197	Maximum No. of Jobs	90-3000	600	Read/Write	Set between 90(Min)~300(Max) in increments of 1
700-198	Flag to permit/prohibit job passing	0-1	1: Permit	Read/Write	1: Permit, 0: Prohibit
700-301	SEEPROM Serial# (1st digit)	-	-	Read	Alphanumerics (ASCII)
700-302	SEEPROM Serial# (2nd digit)	-	-	Read	Alphanumerics (ASCII)

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-303	SEEPR0M Serial# (3rd digit)	-	-	Read	Alphanumeric (ASCII)
700-304	SEEPR0M Serial# (4th digit)	-	-	Read	Alphanumeric (ASCII)
700-305	SEEPR0M Serial# (5th digit)	-	-	Read	Alphanumeric (ASCII)
700-306	SEEPR0M Serial# (6th digit)	-	-	Read	Alphanumeric (ASCII)
700-307	SEEPR0M Serial# (7th digit)	-	-	Read	Alphanumeric (ASCII)
700-308	SEEPR0M Serial# (8th digit)	-	-	Read	Alphanumeric (ASCII)
700-309	SEEPR0M Serial# (9th digit)	-	-	Read	Alphanumeric (ASCII)
700-310	SEEPR0M Serial# (10th digit)	-	-	Read	Alphanumeric (ASCII)
700-311	Battery Backup SRAM Serial # (1st digit)	-	-	Read	Alphanumeric (ASCII)
700-312	Battery Backup SRAM Serial # (2nd digit)	-	-	Read	Alphanumeric (ASCII)
700-313	Battery Backup SRAM Serial # (3rd digit)	-	-	Read	Alphanumeric (ASCII)
700-314	Battery Backup SRAM Serial # (4th digit)	-	-	Read	Alphanumeric (ASCII)
700-315	Battery Backup SRAM Serial # (5th digit)	-	-	Read	Alphanumeric (ASCII)
700-316	Battery Backup SRAM Serial # (6th digit)	-	-	Read	Alphanumeric (ASCII)
700-317	Battery Backup SRAM Serial # (7th digit)	-	-	Read	Alphanumeric (ASCII)
700-318	Battery Backup SRAM Serial # (8th digit)	-	-	Read	Alphanumeric (ASCII)
700-319	Battery Backup SRAM Serial # (9th digit)	-	-	Read	Alphanumeric (ASCII)
700-320	Battery Backup SRAM Serial # (10th digit)	-	-	Read	Alphanumeric (ASCII)
700-321	SEEPR0M Product # (1st digit)	-	-	Read	Alphanumeric (ASCII)
700-322	SEEPR0M Product # (2nd digit)	-	-	Read	Alphanumeric (ASCII)
700-323	SEEPR0M Product # (3rd digit)	-	-	Read	Alphanumeric (ASCII)
700-324	SEEPR0M Product # (4th digit)	-	-	Read	Alphanumeric (ASCII)
700-325	Battery Backup SRAM Product # (1st digit)	-	-	Read	Alphanumeric (ASCII)
700-326	Battery Backup SRAM Product # (2nd digit)	-	-	Read	Alphanumeric (ASCII)
700-327	Battery Backup SRAM Product # (3rd digit)	-	-	Read	Alphanumeric (ASCII)
700-328	Battery Backup SRAM Product # (4th digit)	-	-	Read	Alphanumeric (ASCII)
700-329	SEEPR0M Product Code (1st digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-330	SEEPR0M Product Code (2nd digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-331	SEEPR0M Product Code (3rd digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-332	SEEPR0M Product Code (4th digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-333	SEEPR0M Product Code (5th digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-334	SEEPR0M Product Code (6th digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-335	SEEPR0M Product Code (7th digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-336	SEEPR0M Product Code (8th digit)	-	-	Read/Write	Alphanumeric (ASCII)
700-337	Types of Devices (Information on the SEEPR0M)	-	-	Read/Write	[P, SP, CSP, CFSP (,C)](C is requested by M/N) Adjusted at Factory Settings. P(rinter), F(ax), C(opy), S(can) are allocated the following bits and are expressed in the following logic. P: 0x01, F: 0x02, C: 0x04, S: 0x08
700-338	Territory Information (FX, XC, XE, AP) (Information on SEEPR0M) (Data outside the target for Initialize by Country function)	1-4	-	Read/Write	1: FX, 2: XC, 3: XE, 4: AP

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-368	lpd: Memory Spool	512~1024	1MB	Read/Write	Memory spooling: [512KB~32MB](256KB increments) Unit: Kbyte
700-390	Memory size for mail print (E-mail To Print)	64~1024	256KB (256)	Read/Write	64K~1M Byte Unit: Kbyte
700-396	Auditron Color Mode for Copy (Color Mode for unauthenticated user)	0~2	0: Prohibit	Read/Write	0: Prohibit, 1: BW, 2: BW & Low Price Color
700-397	Default Paper Size for Reports	5~44	5: A4 (FX/AP default), 44: Letter (XC default)	Read/Write	5: A4, 44: Letter
700-398	CE Auditron Mode: (Print User Restriction Setup Menu Display)	0~1	1: Display	Read/Write	0: No display 1: Display
700-399	Millimeter/Inch Settings	1~3	1: Millimeter (FX/AP default), 3: Inch (XC default)	Read/Write	1: Millimeter, 3: Inch
700-401	Paper Size Group (NVM)	1~5	The value specified in Paper Size Group (Factory Settings SEEPROM)	Read/Write	1: Japan, 2: NA (North America), 3: EU, 4: AP, 5: SA (South America)
700-402	Paper Size Group (SEEPROM)	1~5	Sets every destination at the factory	Read/Write	1: Japan, 2: NA (North America), 3: EU, 4: AP, 5: SA (South America)
700-410	Electronic Sort Print Area Size (RAM Disk)		33M with standard memory, 50M with 128M expansion memory, and 66M with 256M expansion memory	Read/Write	<p>This setting becomes valid only when extending the printer kit with HDD not installed. Do not set other than the situation above. The setting range is from 0 to "current value + amount of free memory". Setting increment is 1MB Units. The current value can be checked from the System Settings List of the device, while the amount of free memory can be checked from the Memory Settings Menu.</p> <p style="text-align: center;">CAUTION</p> <p><i>If a value that is larger than the "current value + amount of free memory" is entered, every Memory Settings (inclusive of Receiving Buffer of the Host IF, Form Memory, etc.) will revert to their Factory Shipment Settings.</i></p> <p><i>Please make sure that the total of the increased portion does not exceed the amount of free memory if the Electronic Sort Copy Size is also changed.</i></p> <p><i>The Electronic Sort function listed to the left stops when its value is set to "0". However, please do not set only this value to "0". Also set the Electronic Sort Copy Area to "0" when setting this value to "0".</i></p>

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-411	Electronic Sort Copy Area Size (RAM Disk)		33M with standard memory, 50M with 128M expansion memory, 66M with 256M expansion memory, and 100M with 386M expansion memory (TBD)	Read/Write	<p>This setting becomes valid only when the HDD is not installed. Do not set other than the situation above. The setting range is from 0 to “current value + amount of free memory”. Setting increment is 1MB Units.</p> <p>The current value can be checked from the System Settings List of the device, while the amount of free memory can be checked from the Memory Settings Menu.</p> <p style="text-align: center;">CAUTION</p> <p><i>If a value that is larger than the “current value + amount of free memory” is entered, every Memory Settings will revert to their Factory Shipment Settings. Please make sure that the total of the increased portion does not exceed the amount of free memory if the Electronic Sort Print Area is also changed.</i></p> <p><i>The Electronic Sort function listed to the left stops when its value is set to “0”. However, please do not set only this value to “0”. Also set the Electronic Sort Print Area to “0” when setting this value to “0”.</i></p>
700-412	Mailbox Area Size (RAM Disk)		7M	Read/Write	Cannot be set (TBD)
700-420	Download Disable Flag	0~1	0: Permit	Read/Write	0: Permit, 1: Prohibit
700-421	Product ID to identify downloaded file (1st character)	-	NULL	Read/Write	ASCII
700-422	Product ID to identify downloaded file (2nd character)	-	NULL	Read/Write	ASCII
700-423	Product ID to identify downloaded file (3rd character)	-	NULL	Read/Write	ASCII
700-424	Product ID to identify downloaded file (4th character)	-	NULL	Read/Write	ASCII
700-425	Product ID to identify downloaded file (5th character)	-	NULL	Read/Write	ASCII
700-426	Product ID to identify downloaded file (6th character)	-	NULL	Read/Write	ASCII
700-427	Product ID to identify downloaded file (7th character)	-	NULL	Read/Write	ASCII
700-428	Product ID to identify downloaded file (8th character)	-	NULL	Read/Write	ASCII
700-430	Certificate Credibility (PKI Mode)	1~3	1: Level 1	Read/Write	1: Level 1, 2: Level 2, 3: Level 3
700-431	Device Certification Type	0~2	0: Not registered	Read/Write	0: Not registered, 1: On (Self-generate), 2: Available (Import)
700-437	SSL Availability Setting	0~1	0: FALSE Invalid	Read/Write	0: FALSE Invalid, 1: TRUE Valid
700-440	S/MIME Availability Setting	0, 1	0: FALSE Invalid	Read/Write	[0: FALSE Invalid, 1: TRUE Valid]
700-441	S/MIME Device Certification	0~0xFFFFFFFF	0	Read/Write	
700-442	S/MIME Message Digest Algorithm	0, 1	0: SHA1	Read/Write	[0: SHA1, 1: MD5]

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-443	S/MIME Contents Encryption Method	0~3	0: 3DES	Read/Write	[0: 3DES, 1: RC4-40, 2: RC4-64, 3: RC4-128]
700-444	S/MIME Signature Mode	0~2	0: Fixed as Device Certificate	Read/Write	0: Fixed as Device Certificate (Default) 1: Fixed as Personal Certificate 2: Fixed as User Certificate
700-445	SSL Port Number	443~9999	443	Read/Write	443, 8000~9999
700-446	HDD Overwrite Setting	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
700-447	HDD Overwrite Count Setting	0~3	1	Read/Write	1, 3
700-452	SNTP Server Address Valid	0~1	0: FALSE	Read/Write	0: FALSE, 1: TRUE
700-453	SNTP Server Address	0x00000000~0xFFFFFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF
700-454	SNTP Enabled/Disabled	0~1	0: Disable	Read/Write	0: Disable, 1: Enable
700-455	SNTP Time Retrieval Interval	1~500	168	Read/Write	1~500hr
700-458	Prohibit Receiving of Untrusted E-mail	0, 1	0: Do not prohibit	Read/Write	0: Do not prohibit, 1: Prohibit
700-459	Enable/Disable Auto Store Certificates	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-460	SEC Data Restriction Setup	0, 1	0: OFF	Read/Write	[0: OFF, 1: ON]
700-461	Prohibit Receiving of Untrusted E-mail (@iFax)	0, 1	0: Do not prohibit	Read/Write	0: Do not prohibit, 1: Prohibit
700-462	SCANFILE Signature Device Certification	0~0XFFFFFFF	0	Read/Write	0: TBD >0: Certificate Index Number
700-463	SCANFILE Signature Signer	0~2	0: Fixed as Device Signature	Read/Write	0: Fixed as Device Certificate 1: Fixed as Personal Certificate 2: Fixed as User Certificate
700-464	XDW Signature	1~4	4: User selection	Read/Write	2: Always add signature (visible) 3: Do not add signature 4: User selection
700-465	PDF Signature	0~4	4: User selection	Read/Write	1: Always add signature (invisible) 2: Always add signature (visible) 3: Do not add signature 4: User selection
700-466	Print Delay Restriction Prohibition Settings	0, 1	0: Do not prohibit	Read/Write	0: Do not prohibit, 1: Prohibit
700-467	Time to Start Print Prohibited State (Hour)	0~23	21	Read/Write	0~23
700-468	Time to Start Print Prohibited State (Min)	0~59	0	Read/Write	0~59
700-469	Time to End Print Prohibited State (Hour)	0~23	9	Read/Write	0~23
700-470	Time to End Print Prohibited State (Min)	0~59	0	Read/Write	0~59
700-471	Output CO User Report	0, 1	1: TRUE (Allow)	Read/Write	0: FALSE (Prohibit), 1: TRUE (Allow)
700-490	Target Stored Document for Stored Document LED	0~1	0: All Documents	Read/Write	0: All Documents, 1: Received Fax documents
700-500	Enable/Disable iFAX Transfer for iFAX Receive	0~1	1: Enable	Read/Write	1: Enable, 0: Disable

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-501	Enable/Disable E-mail Transfer for iFAX Receive	0~1	1: Enable	Read/Write	1: Enable, 0: Disable
700-502	Enable/Disable Auto Deletion of Extended Mailbox Document	0~1	0: Do not auto delete	Read/Write	1: Auto delete, 0: Do not auto delete
700-503	Extended Mailbox Document Auto Deletion Frequency by Days	0~14	7	Read/Write	1~14 days
700-504	Extended Mailbox Document Auto Deletion Frequency by Hours (Hour)	0~23	3	Read/Write	0~23
700-505	Extended Mailbox Document Auto Deletion by Hours (Min)	0~59	0	Read/Write	0~59
700-506	Document Processing after Document Retrieval from Client	0~1	0: Follow Box settings	Read/Write	0: Follow Box settings, 1: Delete
700-510	Enable/Disable Deletion of Auditron Print Document	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-511	Enable/Disable Deletion of Secure Print Document	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-512	Enable/Disable Deletion of Sample Print Document	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-513	Confirmation screen control for the Print Saved Job of Box Service	0, 1	1: Display	Read/Write	0: Do not display, 1: Display
700-520	SESAMi Manager Port Number	1~65535	80	Read/Write	80, 8000~9999
700-521	SESAMi Manager Maximum Sessions	1~5	3	Read/Write	1~5
700-522	SESAMi Manager Connector Timeout Time (Unit: sec)	30~255	30	Read/Write	1~255
700-523	Individual Setting Information related to ESR Task (Communication timeout when Application Interface starts)	1~900	60	Read/Write	1~900
700-530	Rebooting when failure occurs	0~1	1: ON	Read/Write	0: OFF, 1: ON
700-540	Auditron Mode (Auditron Mode/Login Mode)	0~2	0: OFF	Read/Write	0: OFF, 1: INTERNAL AUDITRON, 2: NETWORK ACCOUNTING
700-541	Printing Restriction for Mailbox Print	0~1	1: ON	Read/Write	0: OFF (Not restricted), 1: ON (Restricted)
700-542	Restriction for outputting Electronic Document from Mailbox	0~1	1: ON	Read/Write	0: OFF (Not restricted), 1: ON (Restricted)
700-543	User Information Location (User Information Storage Location)	0~1	0: NVRAM	Read/Write	0: NVRAM, 1: HDD
700-544	Matching of Login Information	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
700-545	Password Mode for Local Access (Login Password Mode)	0~1	0: OFF	Read/Write	0: OFF, 1: ON
700-546	Operation when Login Information is not available	0~1	0: Cancel	Read/Write	0: Cancel, 1: Store
700-547	User ID Notation	-	User ID	Read/Write	1~15 characters (7Bit ASCII)
700-548	Account ID Notation	-	Account ID	Read/Write	1~15 characters (7Bit ASCII)

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-549	Conceal UserID	0-1	0: FALSE	Read/Write	0: FALSE, 1: TRUE
700-550	Conceal AccountID	0-1	0: FALSE	Read/Write	0: FALSE, 1: TRUE
700-551	Remote Authentication Mode for Scan (Remote Login Mode for Scan)	0-2	0: OFF	Read/Write	0: OFF, 1: ON, 2: ON with Guest
700-552	Remote Authentication Service (Remote Login Service Selection)	0-1	0: Kerberos (Windows2000)	Read/Write	0: Kerberos (Windows2000), 1: Kerberos (Solaris)
700-553	Guest Password	-	Guest	Read/Write	4-12 characters (7Bit ASCII)
700-554	KDC IP Address	0-255	0.0.0.0	Read/Write	0.0.0.0-255.255.255.255
700-555	KDC Server Port Number	0-65535	88	Read/Write	Values between 1-65535
700-556	KDC FQDN	-	NULL character	Read/Write	Character below 255bytes valid in FQDN
700-557	KDC Realm Name	-	NULL character	Read/Write	Character string below 64bytes
700-558	Pay for Print Storing	0-2	0: Off	Read/Write	0: OFF, 1: ON, 2:Compulsion accumulates by the print job.
700-559	Enable/Disable Pay for Print Storing Job Command	0-1	0: Disable	Read/Write	0: Disable, 1: Enable
700-560	Operation for incorrect Login Information	0-1	0: Cancel	Read/Write	0: Cancel, 1: Store
700-561	Enable/Disable Pay for Print Control Job Command	0-1	0: Disable	Read/Write	0: Disable, 1: Enable
700-562	No Account User Print (Enable/Disable Non-Account Print)	0-1	0: Disable	Read/Write	0: Disable, 1: Enable
700-563	Maximum Number of Continuous KO Login Errors	0-10	5	Read/Write	0-10
700-564	Maximum Number of Login Errors	0-600	10	Read/Write	0-600
700-565	KDC IP Address-2	0.0.0.0-255.255.255.255	0.0.0.0	Read/Write	0.0.0.0-255.255.255.255
700-566	KDC Server Port Number-2	1-65535	88	Read/Write	Values between 1-65535
700-567	KDC FQDN-2		NULL character	Read/Write	Character below 255bytes valid in FQDN
700-568	KDC Realm Name-2		NULL character	Read/Write	Character string below 64bytes
700-569	KDC IP Address-3		0.0.0.0	Read/Write	0.0.0.0-255.255.255.255
700-570	HCF ROM Major Version	-	-	Read	Auto setting
700-571	HCF ROM Minor Version	-	-	Read	Auto setting
700-572	HCF ROM Revision Version	-	-	Read	Auto setting
700-573	Finisher ROM Major Version	-	-	Read	Auto setting
700-574	Finisher ROM Minor Version	-	-	Read	Auto setting
700-575	Finisher ROM Revision Version	-	-	Read	Auto setting
700-576	IIT Extension ROM Major Version	-	-	Read	Auto setting

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-577	IIT Extension ROM Minor Version	-	-	Read	Auto setting
700-578	IIT Extension ROM Revision Version	-	-	Read	Auto setting
700-580	KDC Server Port Number-3	1-65535	88	Read/Write	Values between 1-65535
700-581	KDC FQDN-3		NULL character	Read/Write	Character below 255bytes valid in FQDN
700-582	KDC Realm Name-3		NULL character	Read/Write	Character string below 64bytes
700-583	KDC IP Address-4		0.0.0.0	Read/Write	0.0.0.0~255.255.255.255
700-584	KDC Server Port Number-4	1-65535	88	Read/Write	Values between 1-65535
700-585	KDC FQDN-4		NULL character	Read/Write	Character below 255bytes valid in FQDN
700-586	KDC Realm Name-4		NULL character	Read/Write	Character string below 64bytes
700-587	KDC IP Address-5		0.0.0.0	Read/Write	0.0.0.0~255.255.255.255
700-588	KDC Server Port Number-5	1-65535	88	Read/Write	Values between 1-65535
700-589	KDC FQDN-5		NULL character	Read/Write	Character below 255bytes valid in FQDN
700-590	KDC Realm Name-5		NULL character	Read/Write	Character string below 64bytes
700-591	Direct Fax Job Restricted Mode	0, 1	0: Allow	Read/Write	0: Allow: 1 Prohibit
700-600	DC132 Supplementary Data Group 1 (IOT)	-	-	Read	Auto setting
700-601	DC132 Supplementary Data Group 1 (SYS1)	-	-	Read	Auto setting
700-602	DC132 Supplementary Data Group 1 (SYS2)	-	-	Read	Auto setting
700-603	DC132 Supplementary Data Group 2 (IOT)	-	-	Read	Auto setting
700-604	DC132 Supplementary Data Group 2 (SYS1)	-	-	Read	Auto setting
700-605	DC132 Supplementary Data Group 2 (SYS2)	-	-	Read	Auto setting
700-606	DC132 Supplementary Data Group 3 (IOT)	-	-	Read	Auto setting
700-607	DC132 Supplementary Data Group 3 (SYS1)	-	-	Read	Auto setting
700-608	DC132 Supplementary Data Group 3 (SYS2)	-	-	Read	Auto setting
700-610	IT Option Connection Settings	0, 1	0: Do not connect	Read/Write	[0: Do not connect, 1: Connect]
700-611	KDC IP Address - For Backup 1		0.0.0.0	Read/Write	IP Address
700-612	KDC IP Address - For Backup 2		0.0.0.0	Read/Write	IP Address
700-613	KDC IP Address - For Backup 3		0.0.0.0	Read/Write	IP Address
700-614	KDC IP Address - For Backup 4		0.0.0.0	Read/Write	IP Address
700-615	KDC IP Address - For Backup 5		0.0.0.0	Read/Write	IP Address

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
700-616	KDC FQDN - For Backup 1		null	Read/Write	Text (ASCII 256 Characters)
700-617	KDC FQDN - For Backup 2		null	Read/Write	Text (ASCII 256 Characters)
700-618	KDC FQDN - For Backup 3		null	Read/Write	Text (ASCII 256 Characters)
700-619	KDC FQDN - For Backup 4		null	Read/Write	Text (ASCII 256 Characters)
700-620	KDC FQDN - For Backup 5		null	Read/Write	Text (ASCII 256 Characters)
700-621	KDC Server Port Number - For Backup 1	1-65535	88	Read/Write	1-65535
700-622	KDC Server Port Number - For Backup 2	1-65535	88	Read/Write	1-65535
700-623	KDC Server Port Number - For Backup 3	1-65535	88	Read/Write	1-65535
700-624	KDC Server Port Number - For Backup 4	1-65535	88	Read/Write	1-65535
700-625	KDC Server Port Number - For Backup 5	1-65535	88	Read/Write	1-65535
700-626	Authentication agent - timeout	1-300	60 (sec)	Read/Write	1-300 (sec)
700-627	LDAP Authentication - Sequence Type	0, 1	0: Direct Login	Read/Write	0: Direct Login 1: Search and Login
700-628	LDAP Authentication - Login User Login Attributes Type		samAc-countName	Read/Write	Text (ASCII 32 Characters)
700-629	LDAP Authentication - Login User Search Attributes Type		mail	Read/Write	Text (ASCII 32 Characters)
700-630	LDAP Authentication - User Name Additional Text		null	Read/Write	Text (ASCII 64 Characters)
700-631	LDAP Authentication - Enable/Disable User Name Additional Text	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
700-632	SMB Authentication - Domain Name 1		null	Read/Write	Text (ASCII 15 Characters)
700-633	SMB Authentication - Domain Name 2		null	Read/Write	Text (ASCII 15 Characters)
700-634	SMB Authentication - Domain Name 3		null	Read/Write	Text (ASCII 15 Characters)
700-635	SMB Authentication - Domain Name 4		null	Read/Write	Text (ASCII 15 Characters)
700-636	SMB Authentication - Domain Name 5		null	Read/Write	Text (ASCII 15 Characters)
700-637	SMB Authentication - Server Address 1		0.0.0.0	Read/Write	IP Address
700-638	SMB Authentication - Server Address 2		0.0.0.0	Read/Write	IP Address
700-639	SMB Authentication - Server Address 3		0.0.0.0	Read/Write	IP Address
700-640	SMB Authentication - Server Address 4		0.0.0.0	Read/Write	IP Address
700-641	SMB Authentication - Server Address 5		0.0.0.0	Read/Write	IP Address
700-642	SMB Authentication - Server/SMB Name 1		null	Read/Write	Text (ASCII 64 Characters)
700-643	SMB Authentication - Server/SMB Name 2		null	Read/Write	Text (ASCII 64 Characters)
700-644	SMB Authentication - Server/SMB Name 3		null	Read/Write	Text (ASCII 64 Characters)
700-645	SMB Authentication - Server/SMB Name 4		null	Read/Write	Text (ASCII 64 Characters)
700-646	SMB Authentication - Server/SMB Name 5		null	Read/Write	Text (ASCII 64 Characters)
700-652	SMTP Authentication - Specification Method	0-3	0: DOMAIN_NAME	Read/Write	0: DOMAIN NAME 1: SERVER NAME 2: SERVER ADDRESS 3: SERVER SMB NAME

Table 1 Common

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
701-912	ADC Gradation Correction LUT Validity (A, B)	0-1	1	Read/Write	0: Disable, 1: Enable
701-917	ADC Gradation Correction LUT Validity (E, F)	0, 1	1	Read/Write	0: Disable, 1: Enable
701-924	Auto Gradation Correction LUT Validity (A, B)	0-1	1	Read/Write	0: Disable, 1: Enable
701-929	Auto Gradation Correction LUT Validity (E, F)	0-1	1	Read/Write	0: Disable, 1: Enable
702-931	BufferCont Management Memory Partition Data	0, 1	FALSE: Not prohibited	Read/Write	Expansion of memory partition size prohibition. TRUE: Prohibited FALSE: Not prohibited (Default) If the expansion of memory partition size is prohibited, memory partition expansion request by PfBufloctl() will be refused.
702-932	External Scan Feature	0-2	0: None	Read/Write	0: None 1: ExtNetScan 2: CDIScan
702-934	Output Settings for Error Report during JFS Error	0, 1	0: Auto output Off	Read/Write	0: Auto output Off, 1: Auto output On
702-935	Confirmation screen control for the Print Saved Job of Print Service	0, 1	1: Display	Read/Write	0: Do not display, 1: Display
702-940	Size Type Settings during sending of FAX Document	1, 2	2: Non-standard	Read/Write	1: Standard, 2: Non-standard
702-941	Threshold Value Settings for size determination in Slow Scan direction during sending of FAX Document	0-10	10mm	Read/Write	0-10mm
702-942	"Mixed A3 and Ledger" Condition Settings for size determination in Slow Scan direction during sending of FAX Document	1, 2	Conforms to RECEIVE_DOCSIZE_SELECT of "(A10 Country Specific SystemDataDefault)" in the Fax-Card Features Specifications Manual.	Read/Write	1: Mixed A3 and Ledger allowed 2: Mixed A3 and Ledger prohibited

Chain 720-xxx Meter Counter

Table 2 Meter Counter

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
720-002	Billing Display	1~7	PFV_BILLING_TYPE_1	Read/Write	Meter Counter. 1: Billing 1, 2: Billing 2, 3: Billing 3, 4: Billing 4, 5: Billing 5, 6: Billing 6, 7: Billing 7
720-003	Master Print-Full Color	0~19999999	-	Read	Meter Counter
720-004	Master Print-Color 1	0~19999999	-	Read	Meter Counter
720-005	Master Print-Color 2	0~19999999	-	Read	Meter Counter
720-006	Master Print-B&W	0~19999999	-	Read	Meter Counter
720-007	Master Copy-Full Color	0~19999999	-	Read	Meter Counter
720-008	Master Copy-Color2	0~19999999	-	Read	Meter Counter
720-009	Master Copy-B&W	0~19999999	-	Read	Meter Counter
720-010	Master FAX-Full Color	0~19999999	-	Read	Meter Counter
720-011	Master FAX-B&W	0~19999999	-	Read	Meter Counter
720-046	Master Large Size B&W	0~19999999	-	Read	Meter Counter
720-047	Master Large Size Color	0~19999999	-	Read	Meter Counter
720-052	Billing Count Type	0~2	0: STANDARD	Read/Write	Meter Counter. 0: STANDARD, 1: CUSTOM 1, 2: CUSTOM
720-053	Master Modal Color	0~19999999	-	Read	Meter Counter
720-054	Master Modal B&W	0~19999999	-	Read	Meter Counter
720-055	Backup1 Modal Color Counter	0~19999999	-	Read	Meter Counter
720-057	Modal Break Point	10~100	10	Read/Write	Meter Counter

Chains 730-xxx, 731-xxx, 732-xxx, 733-xxx, 734-xxx Stored-Data

Table 3 Stored Data

Chain-Link	NVM Name	PWS Display	Setup Range	Initial Value	Read/Write	Description
730-010	Control of correctly authenticated print job at Authentication Mode of Print Auditor.	Pay for Print - Correct Account	0, 1	00: Print	Read/Write	0: Print, 1: Forced save
731-001~999	Modem Speed	Speed Dial setting for Modem Speed (Link 1-500)	-	0: Follow the modem speed of system data	Read/Write	0: Follow the modem speed of system data, 1: 2400bps, 2: 4800bps, 3: 7200bps, 4: 9600bps, 5: 12000bps, 6: 144000bps, 7: 16800bps, 8: 19200bps, 9: 21600bps, 10: 24000bps, 11: 26400bps, 12: 28800bps, 13: 31200bps, 14: 33600bps, Speed Dial (Address Book) (999 stations)
732-001~999	Super G3 Disable Setting	Speed Dial setting for Super G3 (Link 1-500=Dial)	0~1	0: Enable	Read/Write	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable
733-001~999	ECM Disable Setting	Speed Dial setting for ECM (Link 1-500=Dial)	0~1	0: Enable	Read/Write	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable
734-001~999	JBIG Disable Setting	Speed Dial setting for JBIG (Link 1-500=Dial)	0~1	0: Enable	Read/Write	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable

Chain 770-xxx I/O Port Protocol

Table 4 I/O Port Protocol

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-001	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-002	Print Mode	0~29	1: Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 9: 201H, 5: Post-Script, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-003	JCL Switch	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-004	Adobe Communication Protocol	0~2	0: Standard	Read/Write	0: Standard, 1: Binary, 2: TBCP
770-005	Auto Feed Time	1~255	6 (30sec)	Read/Write	1-255 (5-1275 sec)
770-006	Input Prime	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-007	Bi-directional Mode	0~1	0: ON	Read/Write	0: ON, 1: OFF
770-009	Applicable Communication Specification	0~1	0: IEEE P1284	Read/Write	0: IEEE P1284, 1: Centronics
770-010	Operation Speed	1~0x7F	0x7F (127): Auto	Read/Write	0x7F: Auto, 2: 100BASE-TX, 1: 10BASE-T
770-011	JBA 2004 Extensions	0, 1	0: Not supported	Read	0: Not supported, 1: Operate in expanded mode
770-012	Enable Setting	0, 1	1: Enable	Read/Write	0: Disable, 1: Enable
770-020	Operation Speed	-	4: Auto	Read/Write	Auto:4, 4MB/s: 1, 16MB/s: 2, 100MB/s: 3
770-021	Maximum Packet Size	-	1500	Read/Write	1500, 2088, 4472, 8232
770-030	Operation Frame Type Setting	0~255	255: Auto	Read/Write	255: Auto, 2: Ethernet II, 4: Ethernet SNAP, 3: Ethernet 802.2, 1: Ethernet 802.3, 6: Token SNAP, 5: Token 802.5
770-040	Enable Setting	0~1	0: Disable	Read/Write	0: Disable 1: Enable
770-041	Print Mode	-	5: PostScript	Read/Write	PostScript
770-042	JCL Switch is set as P JL Switch for AP	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-050	Enable Setting	0~1	0: Disable	Read/Write	0: Disable 1: Enable
770-051	Print Mode	0~29	1: Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-052	JCL Switch	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
770-053	Filter	0~1	0: None	Read/Write	0: None, 1: TBCP
770-054	Transport	0~3	1: IPX/SPX	Read/Write	1: IPX/SPX, 2: TCP/IP, 3: both
770-060	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-061	Print Mode	1~29	1: Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-062	JCL Switch	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-063	Filter	0~1	0: None	Read/Write	0: None, 1: TBCP
770-064	Spool Type	0~1	0: Non Spool	Read/Write	0: Non Spool, 1: Spool

Table 4 I/O Port Protocol

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-065	Connection Timeout Time	2~3600 2~3600sec (Setup range: 2~65,535)	16sec	Read/Write	
770-068	Port Number	-	515	Read/Write	515, 8000~9999
770-070	Address Limitation (Valid for lpd in Japan market)	0~1	0: OFF	Read/Write	0: OFF, 1: ON
770-071	Receive IP Address 1	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-072	Receive IP Address 2	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-073	Receive IP Address 3	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-074	Receive IP Address 4	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-075	Receive IP Address 5	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-077	SMTP Port Number	1~65535	25	Read/Write	1~65535
770-080	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-081	Print Mode	1~29	1: Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-082	JCL Switch is set as PJL Switch for AP	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-083	Filter	0~1	0: None	Read/Write	0: None, 1: TBCP
770-084	Spool Type	1	0: Non Spool	Read/Write	0: Non Spool, 1: Spool
770-085	Transport	2~6	6: both	Read/Write	2: TCP/IP, 4: NetBeui, 6: both
770-090	Enable Setting	0~1	0: Disable	Read/Write	0: Disable 1: Enable
770-091	Print Mode	1~29	1: Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-092	JCL Switch	0~1	1: ON	Read/Write	0: OFF, 1: ON
770-093	Filter	0~1	0: None	Read/Write	0: None, 1: TBCP
770-094	Acl Authorization (Acl Authorization)	0~1	0: OFF (none)	Read/Write	1: ON (local), 0: OFF (none)
770-095	Use DNS Name	0~1	1: ON	Read/Write	1: ON, 0: OFF
770-097	Port no. (Value can be changed by user)	9999	80	Read/Write	0, 80, any one value between 8000~9999
770-098	Spool Type	1	0: Non Spool is 1	Read/Write	0: Non Spool, 1: Spool
770-099	Time Out	0~65535	60	Read/Write	0~65535 [Sec]
770-100	IP Address Solution	1~0x10	2: DHCP	Read/Write	0x10: Manual, 4: BOOTP, 2: DHCP, 1: RARP
770-101	IP Address	0x000000 00~0xFFFF FFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-102	Subnet Mask	0x000000 00~0xFFFF FFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF

Table 4 I/O Port Protocol

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-103	Gateway Address	0x000000 00~0xFFFF FFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-110	DNS Auto Config.	0~0x10	DHCP	Read/Write	0x10: Manual Setting, 0x02: DHCP
770-112	DNS Domain Name	-	NULL	Read/Write	DNS Domain Name (Normally, it is within 255 characters including the "." (dot) at the end which is not displayed)
770-120	WINS Auto Config.	-	DHCP	Read/Write	0x10: Manual Setting, 0x02: DHCP
770-121	WINS Server Address 1	-	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-123	WINS Server Address 2	0x000000 00~0xFFFF FFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-130	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-131	Transport	0~3	2: UDP	Read/Write	0: both OFF, 1: IPX, 2: UDP, 3: both ON
770-133	Community Name (For Set/Get Access)	-	NULL (Replace to "fxSystem- Mgr" on the PDU)	Read/Write	JISX0201 Character Code 12 Characters
770-140	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-150	Enable Setting	0~1	0; 1: Disable	Read/Write	0: Disable 1: Enable
770-160	Enable Setting	0~1	0: Disable	Read/Write	0: Disable 1: Enable
770-166	No. of concurrent requests received	1~10	5	Read/Write	1~10
770-190	Enable, Disable	0~1	1: Enable	Read/Write	1: Enable, 0: Disable
770-191	Addressee of Mail Sender (Self-machine mail address)	-	NULL	Read/Write	Maximum 128 ASCII characters (Character type includes alphanumeric, [@[].(period)][+][-][=][_ (underscore)][/][<][>] username@domain.name format
770-202	SMTP Mail Server IP Address	0x000000 00~0xFFFF FFFFF	0.0.0.0	Read/Write	00000000~FFFFFFFF
770-222	Start Setup	0, 1	1	Read/Write	0: Stop, 1: Start
770-250	Adobe Communication Protocol	0~2	0: Standard	Read/Write	0: Standard, 1: Binary, 2: TBCP
770-251	JCL Switch	0~1	0: ON	Read/Write	0: OFF 1: ON
770-252	Print Mode	1~29	Auto	Read/Write	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895.
770-254	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-255	Auto Feed Time	0~255	6 (30sec)	Read/Write	1-255 (5-1275 sec)
770-280	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-281	Print Mode	1~29	10: TIFF	Read	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895. Refer to the FF Host I/F of each product for the setup range.
770-282	JCL Switch	0~1	1: ON	Read	0: OFF, 1: ON
770-283	Filter	0~1	0: None	Read	0: None, 1: TBCP
770-284	Spool Type	0~1	0: Non Spool	Read	0: Non Spool (Ring Buffer), 1: Spool (RAM Disk)

Table 4 I/O Port Protocol

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-285	Print Control for Mail Header and Contents in Email Receive Print	0~3	1: "Print basic headers and contents"	Read/Write	0: Print all headers and contents, 1: Print basic headers and contents, 2: Do not print headers or contents, 3: Auto print according to content
770-286	POP Server User Name	-	NULL	Read/Write	-
770-287	POP Server Password	-	NULL	Read/Write	-
770-290	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-291	UPnP Port Number	0~65535	80	Read/Write	1~65535
770-295	Enable Setting	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-296	BMLinkS Discovery Service Port Number	0~65535	80	Read/Write	1~65535
770-297	BMLinkS Print Service Port Number	0~65535	80	Read/Write	1~65535
770-310	Notification Timing for Recipient 1	0~2	0	Read/Write	The prefix ""PFV_MAIL_REQUEST_TYPE""PFV_MAIL_REQUEST_TYPE"" is omitted. NULL (Default) Not specified. STATUS_REPORT Request for periodic status notification. IMMEDIATE_STATUS_REPORT Request for immediate status notification.
770-311	Notification Timing for Recipient 2	0~2	0	Read/Write	The prefix ""PFV_MAIL_REQUEST_TYPE""PFV_MAIL_REQUEST_TYPE"" is omitted. NULL (Default) Not specified. STATUS_REPORT Request for periodic status notification. IMMEDIATE_STATUS_REPORT Request for immediate status notification.
770-312	Notification Timing for Recipient 3	0~2	0	Read/Write	The prefix ""PFV_MAIL_REQUEST_TYPE""PFV_MAIL_REQUEST_TYPE"" is omitted. NULL (Default) Not specified. STATUS_REPORT Request for periodic status notification. IMMEDIATE_STATUS_REPORT Request for immediate status notification.
770-320	Sesami External Interface Settings Information	0~1	1: Enable	Read/Write	0: Disable 1: Enable
770-339	FTP Server Availability	0, 1	PFDISABLE (0): Disable	Read/Write	PFENABLE (1): Enable PFDISABLE (0): Disable (Default)
770-340	IT Option MAC Address	0x0~0xFF FFFFFFFF FF	0x0	Read/Write	
770-341	IT Option IP Address	0x0~0xFF FFFFFFFF FF	0x0	Read/Write	

Table 4 I/O Port Protocol

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-342	IT Option MAC Address #1	0x0~0xFF	0x0	Read/Write	Byte 1 of IT Option MAC Address
770-343	IT Option MAC Address #2	0x0~0xFF	0x0	Read/Write	Byte 2 of IT Option MAC Address
770-344	IT Option MAC Address #3	0x0~0xFF	0x0	Read/Write	Byte 3 of IT Option MAC Address
770-345	IT Option MAC Address #4	0x0~0xFF	0x0	Read/Write	Byte 4 of IT Option MAC Address
770-346	IT Option MAC Address #5	0x0~0xFF	0x0	Read/Write	Byte 5 of IT Option MAC Address
770-347	IT Option MAC Address #6	0x0~0xFF	0x0	Read/Write	Byte 6 of IT Option MAC Address
770-400	Enable Setting	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
770-401	Port No. (User modifiable value)	0~65535	80	Read/Write	Port no.
770-402	Time-Out	0~65535	30	Read/Write	Time-Out (Seconds)

Chain 770-xxx 840-xxx Scan Service

Table 5 Scan Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
770-301	Directory Server (Primary) - FQDN	-	NULL	Read/Write	Below 64 bytes. Refer to RFC1034 for the available characters.
770-302	Directory Server (Primary) - IP Address	-	NULL	Read/Write	Below 4 bytes. Invalid if FQDN is specified. Invalid if retrieval by DHCP is specified. 1.1.1.1~254.254.254.254
770-303	Directory Server (Primary) - LDAP Port No.	1~65535	389	Read/Write	1~65535
770-304	Directory Server (Secondary) - FQDN	-	NULL	Read/Write	Below 64 bytes. Refer to RFC1034 for the available characters.
770-305	Directory Server (Secondary) - IP Address	-	NULL	Read/Write	Below 4 bytes. Invalid if FQDN is specified. Invalid if retrieval by DHCP is specified. 1.1.1.1~254.254.254.254
770-306	Directory Server (Secondary) - LDAP Port No.	1~65535	389	Read/Write	1~65535
840-001	Scan Feature Setting	0~1	0: Enable	Read/Write	0: Enable, 1: Disable
840-002	Scan Illegal Operation (Operation when there was no specific timing when an error occurs in storing)	0~1	0: Enable Stored Document	Read/Write	0: Discard stored documents, 1: Enable stored documents
840-003	Maximum No. of Storage	1~999	999 sheets	Read/Write	1~999 sheets
840-004	Brightness 3 Setting	0~200	192: -92 (Density)	Read/Write	0~200: -100~100
840-005	Brightness 2 Setting	0~200	161: -61 (Density)	Read/Write	0~200: -100~100
840-006	Brightness 1 Setting	0~200	131: -31 (Density)	Read/Write	0~200: -100~100
840-007	Brightness -1 Setting	0~200	99: 1 (Density)	Read/Write	0~200: -100~100
840-008	Brightness -2 Setting	0~200	98: 2 (Density)	Read/Write	0~200: -100~100
840-009	Brightness -3 Setting	0~200	97: 3 (Density)	Read/Write	0~200: -100~100
840-010	Brightest Setting	0~200	150:50	Read/Write	0~200: -100~100

Table 5 Scan Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
840-011	Brighter Setting	0~200	125:25	Read/Write	0~200: -100~100
840-012	Softer Setting	0~200	75: -25	Read/Write	0~200: -100~100
840-013	Softest Setting	0~200	50: -50	Read/Write	0~200: -100~100
840-019	RGB Color Space	0~1	0: Standard Color Space	Read/Write	0: Standard Color Space, 1: Device Color Space
840-021	SCAN ACS Menu Display Settings	0~1	0: Do not display (FX), 1: Display (AP/MN Default)	Read/Write	0: Do not display 1: Display
840-022	Color Saturation Adjustment Default	0~4	2: Standard	Read/Write	0: Stronger 2, 1: Stronger 1, 2: Standard, 3: Softer 1, 4: Softer 2
840-023	Background Color Suppression Level Adjustment	0~4	3: Stronger+1	Read/Write	0: Stronger+4, 1: Stronger+3, 2: Stronger+2, 3: Stronger+1, 4: Normal Applicable to Full Color only
840-024	Bleed Prevention Adjustment Default	0~4	2: Standard	Read/Write	0: Stronger 2, 1: Stronger 1, 2: Standard, 3: Softer 1, 4: Softer 2
840-041	ScanToPC Network Browsing Time Out Time	1~300	5 (sec)	Read/Write	1~300 (sec)
840-080	Enable Use of Remote Mail Address Book	0~1	1: Permit	Read/Write	1: Permit, 0: Prohibit
840-081	LDAP Attribute Type for [Recipient Name]	-	cn	Read/Write	Text string below 32 bytes
840-082	LDAP Attribute Type for [Surname]	-	sn	Read/Write	Text string below 32 bytes
840-083	LDAP Attribute Type for [Name]	-	givenname	Read/Write	Text string below 32 bytes
840-084	LDAP Attribute Type for [Mail Address]	-	mail	Read/Write	Text string below 32 bytes
840-085	Attribute Name assigned in [Supplementary Item 1]	-	Telephone No. (FX Default)	Read/Write	Text string below 16 bytes (FX), Default text string is different depending on the designated market
840-086	LDAP Attribute Type for [Supplementary Item 1]	-	Telephone No.	Read/Write	Text string below 32 bytes
840-087	Attribute Name assigned in [Supplementary Item 2]	-	Company (FX Default)	Read/Write	Text string below 16 bytes (Japan market) Default text string is different depending on the designated market
840-088	LDAP Attribute Type for [Supplementary Item 2]	-	o	Read/Write	Text string below 32 bytes
840-089	Attribute Name assigned in [Supplementary Item 3]	-	Company (FX Default)	Read/Write	Text string below 16 bytes (Japan market) Default text string is different depending on the designated market
840-090	LDAP Attribute Type for [Supplementary Item 3]	-	ou	Read/Write	Text string below 32 bytes
840-091	Maximum Hit Count	5~100	50	Read/Write	5~100
840-092	Device User DN Name (for LDAP Authentication)	-	NULL	Read/Write	Below 256 bytes. Do not set if LDAP Authentication is not required.
840-093	Password (for LDAP Authentication)	-	NULL	Read/Write	Below 32 bytes. Do not set if password is not required for LDAP Authentication.
840-094	Search Root Entry DN	-	NULL	Read/Write	Below 255 bytes.
840-095	Search Range	0~3	All levels below root entry	Read/Write	1: Root entry only, 2: One level below root entry only, 3: All levels below root entry

Table 5 Scan Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
840-096	Object Class	-	-	Read/Write	Below 32 bytes
840-097	Timeout Value (second)	-	30	Read/Write	For 0 or 5-120 detected by the device, set the timeout value to a numerical value other than 0. If 0 is specified, the device will not detect timeout. The timeout setting will follow the setting in the Directory Server Service.
840-098	Directory Server Application	-	NULL	Read/Write	0: None, 1: Microsoft) ActiveDirectory or Microsoft) ExchangeServer5.5, 2: Novel) NetWare5.*. Mapping of properties for retrieval and LDAP property is done based on this setting.
840-116	ScanToEmail Transmission S/MIME Signature Settings	1-3	3: By user specification	Read/Write	1: Always add signature 2: Do not add signature 3: By user specification
840-117	iFAX Transmission S/MIME Signature Settings	1-3	3: User selection	Read/Write	1: Always add signature 2: Do not add signature 3: User selection
840-118	Certificate Attribute Name		userCertificate;binary	Read/Write	Text that displays the certificate attribute name
840-121	Resolution Change Process for Fax Transmission of Scanned Documents	2-15	15: Input resolution	Read/Write	2: 200x200 15: Input resolution
840-122	Color Page Resolution Change Process for IFax Transmission of Scanned Documents	0, 1	1: High Speed	Read/Write	0: High Quality 1: High Speed
840-123	BW Page Resolution Change Process for IFax Transmission of Scanned Documents	1, 2	1: High Speed	Read/Write	1: High Speed 2: Profile Priority
840-125	LDAP - SSL ON/OFF During Server Access	0, 1	0: OFF	Read/Write	0: OFF, 1: ON
840-126	Body Text Message		NULL character	Read/Write	-
840-127	Add Login User Name	0, 1	1	Read/Write	0: Disable 1: Enable
840-128	Add Login User Address	0, 1	1	Read/Write	0: Disable 1: Enable
840-129	Add Number of Pages Sent	0, 1	1	Read/Write	0: Disable 1: Enable
840-130	Add Appended File Format Information	0, 1	1	Read/Write	0: Disable 1: Enable
840-131	Add IP Address of Sender Device	0, 1	0	Read/Write	0: Disable 1: Enable
840-132	Add Serial Number of Sender Device	0, 1	0	Read/Write	0: Disable 1: Enable
840-133	Add MAC Address of Sender Device	0, 1	0	Read/Write	0: Disable 1: Enable
840-134	Add Device Name of Sender Device	0, 1	1	Read/Write	0: Disable 1: Enable
840-135	Add Location Information of Sender Device	0, 1	1	Read/Write	0: Disable 1: Enable

Table 5 Scan Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
840-136	Signature Message		NULL character	Read/Write	-
840-137	Permission to change "From:", when successful in obtaining E-mail address during authentication	0, 1	0	Read/Write	0: Prohibit, 1: Allow
840-138	Permission to change "From:", when failed in obtaining E-mail address during authentication	0, 1	1	Read/Write	0: Prohibit, 1: Allow
840-139	Permission to change "From:", for Guest User	0, 1	0	Read/Write	0: Prohibit, 1: Allow
840-140	Permission to change "From:", when not authenticated	0, 1	0	Read/Write	0: Prohibit, 1: Allow
840-141	Permission to use ScanToEmail, when failed in obtaining E-mail address during authentication	0, 1	1	Read/Write	0: Prohibit, 1: Allow

Chain 780-xxx IOT

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-013	Paper Type for Tray 1	1~61	1: Plain Paper	Read/Write	1: Plain Paper, 2: OHP Sheet, 3: Envelope, 4: Envelope (Plain), 5: Envelope (with window), 6: Labels, 7: Forms, 8: Coated Paper 1, 9: Tracing Paper, 10: Heavyweight 1, 11: Heavyweight 1 Side 2, 12: Heavyweight 2, 13: Heavyweight 2 Side 2, 14: Recycled Paper, 15: Continuous paper (Long), 16: Continuous Paper (short), 17: TABSTOCK, 18: MULTILAYER, 19: OPAQUEFILM, 20: TACK_FILM, 21: Lightweight, 22: Bond paper, 23: Custom Paper 1, 24: Custom Paper 2, 25: Custom Paper 3, 26: Custom Paper 4, 27: Custom Paper 5, 28: Others, 29: Wrapping Paper, 30: Special Glossy Paper, 31: Coated Paper 2, 32: Coated Paper 1 (Side 2), 33: Coated Paper 2 (Side 2), 34: Finisher-supported Heavyweight 1, 35: Finisher-supported Coated Paper 1, 36: Heavyweight 1_A, 37: Heavyweight 1_B, 38: Heavyweight 1_C, 39: Heavyweight 1_S, 40: Heavyweight 2_A, 41: Heavyweight 2_B, 42: Heavyweight 2_C, 43: Heavyweight 2_D, 44: Heavyweight 2_S, 45: Finisher-supported Heavyweight 1_A, 46: Finisher-supported Heavyweight 1_B, 47: Finisher-supported Heavyweight 1_C, 48: Finisher-supported Heavyweight 1_S, 49: Postcard Stock, 50: Postcard Stock (Side 2), 51: Plain Paper (Side 2), 52: Bond paper (Side 2), 53: Recycled Paper (Side 2), 54: Special, 55: Special (Side 2), 56: Backing Sheet, 57: Perforated Paper, 58: Tab Stock Heavyweight 1, 59: Tab Stock Heavyweight 2

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-014	Paper Type for Tray 2	1-61	1: Plain Paper	Read/Write	1: Plain Paper, 2: OHP Sheet, 3: Envelope, 4: Envelope (Plain), 5: Envelope (with window), 6: Labels, 7: Forms, 8: Coated Paper 1, 9: Tracing Paper, 10: Heavyweight 1, 11: Heavyweight 1 Side 2, 12: Heavyweight 2, 13: Heavyweight 2 Side 2, 14: Recycled Paper, 15: Continuous paper (Long), 16: Continuous Paper (short), 17: TABSTOCK, 18: MULTILAYER, 19: OPAQUEFILM, 20: TACK_FILM, 21: Lightweight, 22: Bond paper, 23: Custom Paper 1, 24: Custom Paper 2, 25: Custom Paper 3, 26: Custom Paper 4, 27: Custom Paper 5, 28: Others, 29: Wrapping Paper, 30: Special Glossy Paper, 31: Coated Paper 2, 32: Coated Paper 1 (Side 2), 33: Coated Paper 2 (Side 2), 34: Finisher-supported Heavyweight 1, 35: Finisher-supported Coated Paper 1, 36: Heavyweight 1_A, 37: Heavyweight 1_B, 38: Heavyweight 1_C, 39: Heavyweight 1_S, 40: Heavyweight 2_A, 41: Heavyweight 2_B, 42: Heavyweight 2_C, 43: Heavyweight 2_D, 44: Heavyweight 2_S, 45: Finisher-supported Heavyweight 1_A, 46: Finisher-supported Heavyweight 1_B, 47: Finisher-supported Heavyweight 1_C, 48: Finisher-supported Heavyweight 1_S, 49: Postcard Stock, 50: Postcard Stock (Side 2), 51: Plain Paper (Side 2), 52: Bond paper (Side 2), 53: Recycled Paper (Side 2), 54: Special, 55: Special (Side 2), 56: Backing Sheet, 57: Perforated Paper, 58: Tab Stock Heavyweight 1, 59: Tab Stock Heavyweight 2
780-015	Paper Type for Tray 3	1-61	1: Plain Paper	Read/Write	1: Plain Paper, 2: OHP Sheet, 3: Envelope, 4: Envelope (Plain), 5: Envelope (with window), 6: Labels, 7: Forms, 8: Coated Paper 1, 9: Tracing Paper, 10: Heavyweight 1, 11: Heavyweight 1 Side 2, 12: Heavyweight 2, 13: Heavyweight 2 Side 2, 14: Recycled Paper, 15: Continuous paper (Long), 16: Continuous Paper (short), 17: TABSTOCK, 18: MULTILAYER, 19: OPAQUEFILM, 20: TACK_FILM, 21: Lightweight, 22: Bond paper, 23: Custom Paper 1, 24: Custom Paper 2, 25: Custom Paper 3, 26: Custom Paper 4, 27: Custom Paper 5, 28: Others, 29: Wrapping Paper, 30: Special Glossy Paper, 31: Coated Paper 2, 32: Coated Paper 1 (Side 2), 33: Coated Paper 2 (Side 2), 34: Finisher-supported Heavyweight 1, 35: Finisher-supported Coated Paper 1, 36: Heavyweight 1_A, 37: Heavyweight 1_B, 38: Heavyweight 1_C, 39: Heavyweight 1_S, 40: Heavyweight 2_A, 41: Heavyweight 2_B, 42: Heavyweight 2_C, 43: Heavyweight 2_D, 44: Heavyweight 2_S, 45: Finisher-supported Heavyweight 1_A, 46: Finisher-supported Heavyweight 1_B, 47: Finisher-supported Heavyweight 1_C, 48: Finisher-supported Heavyweight 1_S, 49: Postcard Stock, 50: Postcard Stock (Side 2), 51: Plain Paper (Side 2), 52: Bond paper (Side 2), 53: Recycled Paper (Side 2), 54: Special, 55: Special (Side 2), 56: Backing Sheet, 57: Perforated Paper, 58: Tab Stock Heavyweight 1, 59: Tab Stock Heavyweight 2
780-018	Paper Type for SMH	1-61	1: Plain Paper	Read/Write	1: Plain Paper, 2: OHP Sheet, 3: Envelope, 4: Envelope (Plain), 5: Envelope (with window), 6: Labels, 7: Forms, 8: Coated Paper 1, 9: Tracing Paper, 10: Heavyweight 1, 11: Heavyweight 1 Side 2, 12: Heavyweight 2, 13: Heavyweight 2 Side 2, 14: Recycled Paper, 15: Continuous paper (Long), 16: Continuous Paper (short), 17: TABSTOCK, 18: MULTILAYER, 19: OPAQUEFILM, 20: TACK_FILM, 21: Lightweight, 22: Bond paper, 23: Custom Paper 1, 24: Custom Paper 2, 25: Custom Paper 3, 26: Custom Paper 4, 27: Custom Paper 5, 28: Others, 29: Wrapping Paper, 30: Special Glossy Paper, 31: Coated Paper 2, 32: Coated Paper 1 (Side 2), 33: Coated Paper 2 (Side 2), 34: Finisher-supported Heavyweight 1, 35: Finisher-supported Coated Paper 1, 36: Heavyweight 1_A, 37: Heavyweight 1_B, 38: Heavyweight 1_C, 39: Heavyweight 1_S, 40: Heavyweight 2_A, 41: Heavyweight 2_B, 42: Heavyweight 2_C, 43: Heavyweight 2_D, 44: Heavyweight 2_S, 45: Finisher-supported Heavyweight 1_A, 46: Finisher-supported Heavyweight 1_B, 47: Finisher-supported Heavyweight 1_C, 48: Finisher-supported Heavyweight 1_S, 49: Postcard Stock, 50: Postcard Stock (Side 2), 51: Plain Paper (Side 2), 52: Bond paper (Side 2), 53: Recycled Paper (Side 2), 54: Special, 55: Special (Side 2), 56: Backing Sheet, 57: Perforated Paper, 58: Tab Stock Heavyweight 1, 59: Tab Stock Heavyweight 2
780-019	User Define: Name of Paper Type 1		NULL	Read/Write	8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-020	User Define: Name of Paper Type 2		NULL	Read/Write	8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-021	User Define: Name of Paper Type 3		NULL	Read/Write	8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-022	User Define: Name of Paper Type 4		NULL	Read/Write	8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-023	User Define: Name of Paper Type 5		NULL	Read/Write	8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-025	Image Quality Control Category: Bond paper	1~60	1: Plain Paper A	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-026	Image Quality Control Category: Plain Paper	1~60	2: Plain Paper B	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-027	Image Quality Control Category: Recycled Paper	1~60	4: Plain Paper C	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-028	Image Quality Control Category: Custom Paper 1	1~60	2: Plain Paper B	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-029	Image Quality Control Category: Custom Paper 2	1~60	2: Plain Paper B	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-030	Image Quality Control Category: Custom Paper 3	1~60	2: Plain Paper B	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-031	Image Quality Control Category: Custom Paper 4	1~60	2: Plain Paper B	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-032	Image Quality Control Category: Custom Paper 5	1~60	128: Plain Paper S	Read/Write	1: Plain Paper A, 2: Plain Paper B, 4: Plain Paper C, 8: Plain Paper D, 11: Plain Paper 32, 5: Plain Paper F, 64: Plain Paper G, 128: Plain Paper S
780-033	Image Quality Control Category: Heavyweight 1	0~60	19: Heavyweight 1_A	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-034	Image Quality Control Category: Heavyweight 1 Finisher	0~60	19: Heavyweight 1_A	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-035	Image Quality Control Category: Heavyweight 1 (Side 2)	0~60	19: Heavyweight 1_A	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-036	Image Quality Control Category: Heavyweight 2	0~60	27: Heavyweight 2_A	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-037	Image Quality Control Category: Heavyweight 2 (Side 2)	0~60	32: Heavyweight 2_A (Side 2)	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-038	Image Quality Control Category: Side 2 (Plain Paper Side 2)	0~60	1: Plain Paper B	Read/Write	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-050	Paper Type Priority: Bond Paper	0x01~0xff	3	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-051	Paper Type Priority: Plain Paper	0x01~0xff	1	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-052	Paper Type Priority: Recycled Paper	0x01~0xff	2	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-053	Paper Type Priority: Custom Paper 1	0x01~0xff	X (Not applicable for ATS)	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-054	Paper Type Priority: Custom Paper 2	0x01~0xff	X (Not applicable for ATS)	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-055	Paper Type Priority: Custom Paper 3	0x01~0xff	X (Not applicable for ATS)	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-056	Paper Type Priority: Custom Paper 4	0x01~0xff	X (Not applicable for ATS)	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-057	Paper Type Priority: Custom Paper 5	0x01~0xff	X (Not applicable for ATS)	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-060	Tray 1 Priority	1~4	1	Read/Write	1~4: 1, 2, 3, 4, The priority follows the number and 1 is the highest priority. Repetition not allowed.
780-061	Tray 2 Priority	1~4	2	Read/Write	1~4: 1, 2, 3, 4, The priority follows the number and 1 is the highest priority. Repetition not allowed.
780-062	Tray 3 Priority	1~4	3	Read/Write	1~4: 1, 2, 3, 4, The priority follows the number and 1 is the highest priority. Repetition not allowed.
780-066	Edge Erase Adjustment value (Lead Edge)	40~50	4.0	Read/Write	4.0~5.0mm (0.1mm unit)
780-067	Edge Erase Adjustment value (Trail Edge)	20~30	2.0	Read/Write	2.0~3.0mm (0.1mm unit)
780-068	Edge Erase Adjustment value (Side)	20~30	2.0	Read/Write	1.0~3.0mm (0.1mm unit)
780-069	Image Enhancement MC Setting	0~1	1: ON	Read/Write	0: OFF, 1: ON
780-073	Offset operation of Finisher Tray	0~3	1: Offset per set	Read/Write	1: Offset per set, 2: Offset per job, 3: No offset
780-076	Paper Type Priority: Heavyweight 1 Finisher	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-077	Paper Type Priority: Heavyweight 1 Finisher (A)	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-078	Paper Type Priority: Heavyweight 1 Finisher (B)	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-079	Paper Type Priority: Heavyweight 1 Finisher (C)	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected

Table 6 IOT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
780-080	Paper Type Priority: Heavyweight 1 Finisher (S)	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-081	Paper Type Priority: Coated Paper 1 Finisher	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-084	Paper Type Priority: Side 2	0x01~0xff	X	Read/Write	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-141	Center Tray2 Offset Enable	Offset per Set	1~3	Read/Write	1: Offset per Set 2: Offset per Job3: No Offset.
780-142	Forced Duplex for Odd Number Page when 2 Sided Print is selected	0~1	1: 2 Sided	Read/Write	1: 2 Sided, 0: 1 Sided
780-145	Offset operation at Staple mode	0~3	1: Offset per set	Read/Write	1: Offset per set, 2: Offset per job, 3: No offset
780-146	Operation for Abnormal Mix Size Staple	0~1	0: Release	Read/Write	1: Staple, 0: Release
780-147	Maximum Paper Count for 1 Set	10~150	50	Read	10 sheets~100 sheets (B-Finisher) 25 sheets~75 sheets (C-Finisher/D-Finisher (50 sheets)) 50 sheets~150 sheets (D-Finisher (100 sheets))
780-148	Maximum Paper Count for 1 Set (/Small Size)	0~200	100 sheets	Read	2 sheets~200 sheets
780-149	Maximum Paper Count for 1 Set (/Large Size)	0~200	65 sheets	Read	2 sheets~200 sheets
780-150	Maximum Paper Count for Bi-Fold	1~15	5 sheets	Read	1 sheet~15 sheets
780-151	Maximum Paper Count for 1 Set	2~25	15	Read	2 sheets~25 sheets
780-153	Enable/Disable User Confirmation for Paper Type / Paper Attribute Inconsistency	0~1	1: Confirm to wait for user's instruction	Read/Write	1: Confirm to wait for user's instruction, 0: Proceed without confirmation
780-162	Tray 1 Medium Attributes	0~2	0: None	Read/Write	0: None, 1: Paper for BW, 2: Paper for Color
780-163	Tray 2 Medium Attributes	0~2	0: None	Read/Write	0: None, 1: Paper for BW, 2: Paper for Color
780-164	Tray 3 Medium Attributes	0~2	0: None	Read/Write	0: None, 1: Paper for BW, 2: Paper for Color
780-196	Output Tray Offset Feature Availability	1	(Auto Detect)	Read/Write	0: FALSE, 1: TRUE, (Auto Detect)

Chain 785-xxx IIT

Table 7 IIT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
785-002	ACS Separate Level	0~5	3: Normal	Read/Write	1: More Black, 2: Black, 3: Normal, 4: Color, 5: More Color

Table 7 IIT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
785-003	Image Processing Method of FAX Photo	0~1	0: Error Diffusion	Read/Write	0: Error Diffusion (1Bit ED), 1: Dither
785-004	Background Color removal method in B/W Mode	0~1	1: Fast Speed	Read/Write	0: Image Quality, 1: Fast Speed
785-005	Background Color removal method in Color Mode	0~1	1: Fast Speed	Read/Write	0: Image Quality, 1: Fast Speed
785-008	DADF Type	0~2	0: None	Read/Write	Automatic recognition 1: PF1, 2: PF2
785-010	FAX Document Size Detect Method in DADF	0~1	0: A/B Series *The default for XC is "Inch Series"	Read/Write	0: A/B Series, 1: Inch Series
785-015	Text / Photo Separate Level	1~5	3: Normal	Read/Write	1: More Text, 2: Text, 3: Normal, 4: Photo, 5: More Photo
785-016	Photo Reproduction Level	1~5	3: Normal	Read/Write	1: More Text, 3: Normal, 5: More Photo
785-020	Copy Text/Photo Mode Special Color Reproduction	0~2	0: Normal	Read/Write	0: Normal, 1: Inkjet, 2: Highlighter
785-022	Background Color Suppression Level (Color Copy Text/Photo)	0~4	1: +1	Read/Write	0: 0, 1: +1, 2: +2, 3: +3, 4: +4,
785-023	Background Color Suppression Level (Color Copy Text)	0~4	1: +1	Read/Write	0: 0, 1: +1, 2: +2, 3: +3, 4: +4,
785-024	Fine-tune 100% Fast Scan Ratio	980~1020	1	Read/Write	980: 98.0%~1020: 102.0% *0.1% increments
785-025	Fine-tune 100% Slow Scan Ratio	980~1020	100.0%	Read/Write	980: 98.0%~1020: 102.0% *0.1% increments
785-026	Enable/Disable Fine-tune 100% DADF	0~1	1: Disable	Read/Write	0: Disable, 1: Enable
785-028	Enable/Disable CVT Original Size Required	0~1	1: ON	Read/Write	0: OFF, 1: ON
785-030	APS Applicable / Not Applicable (5.5.x8.5 (Statement))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-031	APS Applicable/ Not Applicable (A5)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-032	APS Applicable/Not Applicable (B5)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-033	APS Applicable/Not Applicable (8.25x10.5 (Executive))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-034	APS Applicable/Not Applicable (8x10)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-035	APS Applicable/Not Applicable (16K)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-036	APS Applicable/Not Applicable (8.5x11 (Letter))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-037	APS Applicable/Not Applicable (A4)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable

Table 7 IIT

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
785-038	APS Applicable/Not Applicable (8.5x13 (Foolsap))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-039	APS Applicable/Not Applicable (8.5x14 (Legal))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-040	APS Applicable/Not Applicable (B4)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-041	APS Applicable/Not Applicable (8K)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-042	APS Applicable/Not Applicable (11x17 (Ledger))	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-043	APS Applicable/Not Applicable (A3)	0~1	Set for each region	Read/Write	0: Not Applicable, 1: Applicable
785-050	Applicable Range of the Input Original Size when Original Size is Not Specified	0~1	0: Applicable to such Originals only	Read/Write	0: Applicable to such Originals only, 1: Applicable to all the following non-standard Originals
785-065	Image Layout Center/Corner Switch for Large Size Paper 25501: Paste to Center			Read/Write	0: Paste to Corner 1: Paste to Center
785-080	Edge Erase Settings for smaller paper	0~10	5	Read/Write	0~10mm (1mm increments)
785-082	SCAN Background Suppression Method	1~0	1	Read/Write	0: High Quality, 1: High Speed

Chain 790-xxx UI

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-001	Startup Display Setting	0~2	0: Settings List screen	Read/Write	0: Settings List screen, 1: Job Management screen, 2: Machine Information screen
790-002	Function Setup Startup Display	0~255	0: Menu	Read/Write	0: Menu, 1: Copy, 2:FAX/iFAX, 3:Scan to Email, 4:Scan to Mail Box, 5:Scan to Server, 6:Scan to PC, 7:Box, 8:Print, 9:Job Flow Service, 10:Job Memory, 11:Multi Service, 12:Gemini, 13:Docu Share, 14:Media Print (Digital Camera Print), 15:Media Print (Document print)
790-003	Fax Broadcast/Multi-Poll Confirmation Display (CE Setting)	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-004	Toner Near Empty - Advance Notification (Pre Near Empty) Display (CE Setting)	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-005	Address Keyboard, 10 Key Input Prohibited	0, 1	0: Do not prohibit	Read/Write	0: Do not prohibit, 1: Prohibit
790-019	Remaining Job Auto Clear Timer Settings When Accessory is Connected	1~59	15 sec	Read/Write	
790-050	Pre Set Tray 1	0~255	1: Tray 1	Read/Write	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH,6: HCF1,7: HCF2

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-051	Pre Set Tray 2	0~255	2: Tray 2	Read/Write	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5:6: HCF1,SMH,7: HCF2
790-052	Pre Set Tray 3	0~255	3: Tray 3 (HBUI), 5: SMH (FCWUI)	Read/Write	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH,6: HCF1,7: HCF2
790-060	R/E Preset 1	0~12	2: R/E Preset 2	Read/Write	0: None, 1~12: R/E Preset 1 to R/E Preset 12
790-061	R/E Preset 2	0~12	7: R/E Preset 7	Read/Write	0: None, 1~12: R/E Preset 1 to R/E Preset 12
790-070	Default Tray Setting in Copy Mode	0~5	0: Auto	Read/Write	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH
790-071	Tray at Auto Cancellation	0~12	1: Tray 1	Read/Write	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4
790-072	Default R/E Setting in Copy Mode	0~255	0: 100%	Read/Write	0: 100%, 1~12: R/E Preset 1 to R/E Preset 12, 255: Auto
790-073	R/E Preset 1 Setting	25~1025	1003: 50.00%	Read/Write	1~24: Not in use, 25~400:%, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006:64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1023: 220.00%, 1024: 282.80%, 1025: 400.00%
790-074	R/E Preset 2 Setting	1001~1025	1007: 70.70%	Read/Write	1~1000: Not in use,1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006: 64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1023: 220.00%, 1024: 282.80%, 1025: 400.00%
790-075	R/E Preset 3 Setting	1001~1025	1009: 81.60%	Read/Write	ditto
790-076	R/E Preset 4 Setting	1001~1025	1010: 86.60%	Read/Write	ditto
790-077	R/E Preset 5 Setting	1001~1025	1013: 115.40%	Read/Write	ditto
790-078	R/E Preset 6 Setting	1001~1025	1014: 122.50%	Read/Write	ditto
790-079	R/E Preset 7 Setting	1001~1025	1017: 141.40%	Read/Write	ditto
790-089	Default Extracted Color for Dual Color	1~255	1: Except Black	Read/Write	1 (0x01): Except Black, 2 (0x02): Red, 4 (0x04): Green, 8 (0x08): Blue, 16 (0x10): Yellow (Y), 32 (0x20): Magenta (M), 64 (0x40): Cyan (C)
790-090	Default Color Mode	0~5	2: BW	Read/Write	0: None, 1: Auto, 2: BW, 3: 4 Color, 4: Single Color, 5: Dual Color
790-091	Default Single Color Selection	1~12	1: Custom Color 1	Read/Write	1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6
790-092	Reproduction Color Selection Default except for Extracted Part	0~12	0: Black	Read/Write	0: Black, 1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-093	Default Reproduction Color in Extracted Part	0~12	1: Preset Color 1	Read/Write	0: Black, 1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6
790-096	Default Document Type (Color Machine)	0~10	4: Text/Photo (Print)	Read/Write	0: Auto, 1: Text (Normal Text), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy Originals), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy Originals), 10: Map
790-097	Default Background Color Removal	0~1	1: ON	Read/Write	0: OFF, 1: ON
790-098	Default Density Adjustment	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
790-099	Default Mixed Size	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-100	Default Color Balance (Y: Low Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-101	Default Color Balance (Y: Medium Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-102	Default Color Balance (Y: High Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-103	Default Color Balance (M: Low Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-104	Default Color Balance (M: Medium Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-105	Default Color Balance (M: High Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-106	Default Color Balance (C: Low Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-107	Default Color Balance (C: Medium Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-108	Default Color Balance (C: High Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-109	Default Color Balance (K: Low Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-110	Default Color Balance (K: Medium Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-111	Default Color Balance (K: High Density)	0~6	0: Normal	Read/Write	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-120	Default Color Shift	0~4	2: 0 degree	Read/Write	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
790-121	Default Color Saturation	0~4	2: Normal	Read/Write	0: Stronger 2 (Highest), 1: Stronger (High), 2: Normal, 3: Softer 1 (Low), 4: Softer 2 (Lower)
790-122	Default Sharpness	0~4	2: Normal	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
790-123	Default Contrast	0~4	2: Normal	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-124	Default Center/Corner Shift Position (Side1)	0~9	0: OFF	Read/Write	0: OFF, 1: Center, 2: Top Right, 3: Bottom Right, 4: Top Left, 5: Bottom Left, 6: Top Center, 7: Bottom Center, 8: Left Center, 9: Right Center, 10: Symmetrical position with Side 1
790-125	Default Center/Corner Shift Position (Side2)	0~10	10: Symmetrical position with Side 1	Read/Write	0: OFF, 1: Center, 2: Top Right, 3: Bottom Right, 4: Top Left, 5: Bottom Left, 6: Top Center, 7: Bottom Center, 8: Left Center, 9: Right Center, 10: Symmetrical position with Side 1
790-126	FAX Broadcast Control	0, 1	0: Do not broadcast	Read/Write	0: Do not broadcast 1: Broadcast
790-127	Secondary Input Method of First Speed Dial Instruction Condition	0~2	0: Address Number	Read/Write	0: Address Number 1: Full Dial 2: Do not perform secondary input
790-128	Default Center Erase	0~50	0: 0 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-129	Rotation Default Setting	0~2	1: ON for APS/AMS only	Read/Write	0: Always ON, 1: ON for APS/AMS only, 2: Always OFF
790-130	Image Orientation Default Setting	0~2	"0: Auto" with Finisher, "1: Portrait Originals - Left Edge" without Finisher	Read/Write	0: Auto, 1: Portrait Originals - Left Edge, 2: Portrait Originals - Right Edge
790-131	Fixed Size 1 of Copy Document Size Input	2~255	10: A3 SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-132	Fixed Size 2 of Copy Document Size Input	2~255	12: A4 SEF	Read/Write	ditto
790-133	Fixed Size 3 of Copy Document Size Input	2~255	11: A4 LEF	Read/Write	ditto
790-134	Fixed Size 4 of Copy Document Size Input	2~255	14: A5 SEF	Read/Write	ditto
790-135	Fixed Size 5 of Copy Document Size Input	2~255	16: A6 SEF	Read/Write	ditto

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-136	Fixed Size 6 of Copy Document Size Input	2~255	66: B4 SEF	Read/Write	ditto
790-137	Fixed Size 7 of Copy Document Size Input	2~255	68: B5 SEF	Read/Write	ditto
790-138	Fixed Size 8 of Copy Document Size Input	2~255	67: B5 LEF	Read/Write	ditto
790-139	Fixed Size 9 of Copy Document Size Input	2~255	80: 11x17 SEF	Read/Write	ditto
790-140	Fixed Size 10 of Copy Document Size Input	2~255	90: 8.5x11 SEF	Read/Write	ditto
790-141	Fixed Size 11 of Copy Document Size Input	2~255	89: 8.5x11 LEF	Read/Write	ditto
790-180	Default [Document Orientation] in Copy Mode	0~1	0: Head to Top	Read/Write	0: Head to Top, 1: Head to Left
790-181	Duplex feature default setting	0~3	0: No	Read/Write	0: No (1 to 1 Sided), 1: 1 to 2 Sided, 2: 2 to 1 Sided, 3: 2 to 2 Sided
790-182	Default Collate Mode in Copy Mode	0~2	0: Auto	Read/Write	0: Auto, 1: Collated, 2: Uncollated
790-183	Default Output Tray in Copy Mode	0~4	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray *Options that are not installed cannot be selected
790-184	FAX Sending Display Availability	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-185	Receiver Initial Display Availability	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-186	Default Communication Mode	0~6	2: G3 Auto	Read/Write	1: G4 Auto, 2: G3 Auto, 3: International Communication (Communication Speed is below 4800bps). The following is added in M/N, 4: G3, 5: G3 (ECM), 6: G3 (ECM) - Forced4800
790-187	Default Density (Scan Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
790-188	Default Image Quality (Document Type)	0~2	0: Text	Read/Write	0: Text, 1: Photo, 2: Text/Photo
790-189	Default Resolution (Scan Resolution)	0~3	0: Standard	Read/Write	0: Standard, 1: High Quality (200x200), 2: High Quality (400x400), 3: High Quality (600x600)
790-190	Default Monitor Print	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-192	Default Sender Records	0~1	1: ON	Read/Write	0: OFF, 1: ON
790-193	Default display starting number of Receiver List	0~500	1	Read/Write	1~500
790-194	Default Mixed Size	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-195	Default Receive Mode	0~1	0: Auto Receive	Read/Write	0: Auto Receive, 1: Manual Receive

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-196	Delayed Send Time Setting-hour	0~23	21	Read/Write	Hour (0~23)
790-197	Delayed Send Time Setting-minutes	0~59	0	Read/Write	Minute (0~59)
790-198	Manual Send/Receive Settings	0~1	0: Manual Receive	Read/Write	0: Manual Receive, 1: Manual Send
790-200	FAX Fixed R/E Default Setting 1	25~1025	1003: 50.00%,	Read/Write	1~24: Not in use, 25~400:%, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006:64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1023: 220.00%, 1024: 282.80%, 1025: 400.00%
790-201	FAX Fixed R/E Default Setting 2	25~1025	1007: 70.70%	Read/Write	ditto
790-202	FAX Fixed R/E Default Setting 3	25~1025	1009: 81.60%	Read/Write	ditto
790-203	FAX Fixed R/E Default Setting 4	25~1025	1010: 86.60%	Read/Write	ditto
790-204	FAX Fixed R/E Default Setting 5	25~1025	1013: 115.40%	Read/Write	ditto
790-205	FAX Fixed R/E Default Setting 6	25~1025	1014: 122.50%	Read/Write	ditto
790-206	FAX Fixed R/E Default Setting 7	25~1025	1017: 141.40%	Read/Write	ditto
790-210	Fixed Size 1 of FAX Scan Size Input	1~255	10: A3 SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-211	Fixed Size 2 of FAX Scan Size Input	1~255	12: A4 SEF	Read/Write	ditto
790-212	Fixed Size 3 of FAX Scan Size Input	1~255	11: A4 LEF	Read/Write	ditto
790-213	Fixed Size 4 of FAX Scan Size Input	1~1025	14: A5 SEF	Read/Write	ditto

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-214	Fixed Size 5 of FAX Scan Size Input	1~255	16: A6 SEF	Read/Write	ditto
790-215	Fixed Size 6 of FAX Scan Size Input	1~255	66: B4 SEF	Read/Write	ditto
790-216	Fixed Size 7 of FAX Scan Size Input	1~255	68: B5 SEF	Read/Write	ditto
790-217	Fixed Size 8 of FAX Scan Size Input	1~255	67: B5 LEF	Read/Write	ditto
790-218	Fixed Size 9 of FAX Scan Size Input	1~255	80: 11x17 SEF	Read/Write	ditto
790-219	Fixed Size 10 of FAX Scan Size Input	1~255	90: 8.5x11 SEF	Read/Write	ditto
790-220	Fixed Size 11 of FAX Scan Size Input	1~255	89: 8.5x11 LEF	Read/Write	ditto
790-221	Default FAX Profile	1~2	0:TIFF-S	Read/Write	0: TIFF-S, 1: TIFF-F, 2: TIFF-J
790-222	Default Mixed Size	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-223	Default Color Mode	0~3	2: B/W Binary	Read/Write	0: Full Color, 1: Grayscale, 2: B/W Binary, 3: Auto
790-224	Default Document Type	0~2	0: Text	Read/Write	0: Text, 1: Text/Photo, 2: Photo
790-225	Default Resolution	0~4	0: 200dpi	Read/Write	0: 200dpi, 1: 300dpi, 2: 400dpi, 3: 600dpi, TBD: 100dpi
790-226	Default Top and Bottom Edge Erase	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-227	Default Left and Right Edge Erase	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-228	Default Center Erase	0~50	0 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-229	Default Density/Brightness Adjustment (Using data common to Density, Brightness)	0~6	3: Standard	Read/Write	0: Brightness (Density) 3, 1: Brightness (Density) 2, 2: Brightness (Density) 1, 3: Standard, 4: Brightness (Density) -1, 5: Brightness (Density) -2, 6: Brightness (Density) -3
790-230	Default Contrast Adjustment	0~4	2: Standard	Read/Write	0: Stronger 2, 1: Stronger 1, 2: Standard, 3: Softer 1, 4: Softer 2

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-231	Fixed Size 1 of Scan Document Size Input	1~255	10: A3 SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-232	Fixed Size 2 of Scan Document Size Input	1~255	12: A4 SEF	Read/Write	ditto
790-233	Fixed Size 3 of Scan Document Size Input	1~255	11: A4 LEF	Read/Write	ditto
790-234	Fixed Size 4 of Scan Document Size Input	1~255	14: A5 SEF	Read/Write	ditto
790-235	Fixed Size 5 of Scan Document Size Input	1~255	16: A6 SEF	Read/Write	ditto
790-236	Fixed Size 6 of Scan Document Size Input	1~255	66: B4 SEF	Read/Write	ditto
790-237	Fixed Size 7 of the Subsequent >Scan Document Size Input	1~255	68: B5 SEF	Read/Write	ditto
790-238	Fixed Size 8 of Scan Document Size Input	1~255	67: B5 LEF	Read/Write	ditto
790-239	Fixed Size 9 of Scan Document Size Input	1~255	80: 11x17 SEF	Read/Write	ditto
790-240	Fixed Size 10 of Scan Document Size Input	1~255	90: 8.5x11 SEF	Read/Write	ditto
790-241	Fixed Size 11 of Scan Document Size Input	1~255	89: 8.5x11 LEF	Read/Write	ditto
790-250	Fixed Size 1 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-251	Fixed Size 1 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-252	Fixed Size 2 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-253	Fixed Size 2 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-254	Fixed Size 3 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-255	Fixed Size 3 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-256	Fixed Size 4 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-257	Fixed Size 4 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-258	Fixed Size 5 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-259	Fixed Size 5 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-260	Fixed Size 6 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-261	Fixed Size 6 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-262	Fixed Size 7 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-263	Fixed Size 7 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-264	Fixed Size 8 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-265	Fixed Size 8 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-266	Fixed Size 9 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-267	Fixed Size 9 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-268	Fixed Size 10 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-269	Fixed Size 10 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-270	Fixed Size 11 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-271	Fixed Size 11 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-272	Default [Document Orientation] in SCAN Mode	0~1	1: Head to Left	Read/Write	0: "Head to Top", 1: "Head to Left"
790-273	SCAN Fixed R/E Default Setting 1	25~1025	1003: 50.00%,	Read/Write	1~24: Not in use, 25~400:%, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006:64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1023: 220.00%, 1024: 282.80%, 1025: 400.00%
790-274	SCAN Fixed R/E Default Setting 2	25~1025	1007: 70.70%	Read/Write	ditto

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-275	SCAN Fixed R/E Default Setting 3	25~1025	1009: 81.60%	Read/Write	ditto
790-276	SCAN Fixed R/E Default Setting 4	25~1025	1010: 86.60%	Read/Write	ditto
790-277	SCAN Fixed R/E Default Setting 5	25~1025	1013: 115.40%	Read/Write	ditto
790-278	SCAN Fixed R/E Default Setting 6	25~1025	1014: 122.50%	Read/Write	ditto
790-279	SCAN Fixed R/E Default Setting 7	25~1025	1017: 141.40%	Read/Write	ditto
790-280	Output Size 1	0~255	10: A3 SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-281	Output Size 2	0~255	12: A4 SEF	Read/Write	ditto
790-282	Output Size 3	0~255	11: A4 LEF	Read/Write	ditto
790-283	Output Size 4	0~255	14: A5 SEF	Read/Write	ditto
790-284	Output Size 5	0~255	16: A6 SEF	Read/Write	ditto
790-285	Output Size 6	0~255	66: B4 SEF	Read/Write	ditto
790-286	Output Size 7	0~255	68: B5 SEF	Read/Write	ditto
790-287	Output Size 8	0~255	89: 8.5x11 LEF	Read/Write	ditto
790-288	Default Background Color Removal in SCAN Mode	0~1	1: ON	Read/Write	0: OFF, 1: ON
790-290	Basic Screen Preset R/E 1	1~7	2: R/E Preset 2	Read/Write	1~7: R/E Reset 1~7
790-291	Basic Screen Preset R/E 2	1~7	4: R/E Preset 4	Read/Write	1~7: R/E Reset 1~7

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-292	Basic Screen Preset R/E 3	1~7	7: R/E Preset 7	Read/Write	1~7: R/E Reset 1~7
790-300	Enable/Disable Special Document Selection Display	0~1	0: Do not display	Read/Write	0: Do not display 1: Display
790-301	Default Top Edge Erase Margin	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-302	Default Bottom Edge Erase Margin	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-303	Default Left Edge Erase Margin	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-304	Default Right Edge Erase Margin	0~50	2 (mm)	Read/Write	1mm unit from 0 (mm) to 50 (mm)
790-305	Direction Adjust in Scan	0~1	0: ON	Read/Write	0: OFF, 1: ON
790-306	Bleed Prevention Default	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-307	Default Compression Ratio	0~4	2: Normal	Read/Write	0: High Compression Rate Priority, 1: Moderate Compression Rate Priority, 2: Normal, 3: Moderate Image Quality Priority, 4: High Image Quality Priority
790-308	Default Transfer Protocol	0~2	0: FTP	Read/Write	0: FTP, 1: SMB, 2: SMB (UNC)
790-309	Default File Format	0~4	0: TIFF/JFIF Auto Select	Read/Write	0: TIFF/JFIF Auto Select, 1: TIFF (Single Page File), 2: TIFF (Multiple Pages), 3: PDF, 4: XDW (Not applicable for XC/XE)
790-310	IFax Send Confirmation Default	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-311	Default Sharpness Adjustment	0~4	2: Normal	Read/Write	0: Stronger 2, 1: Stronger 1, 2: Normal, 3: Softer 1, 4: Softer 2
790-312	Enable/Disable Edge Erase	0~1	0: Enable	Read/Write	0: Enable, 1: Disable
790-317	Color Space Display Settings	0~1	1: Do not display	Read/Write	0: Display, 1: Do not display
790-320	BW Copy Document Type Default (when Document Type is "Auto")	1~10	1: Text (Normal Text)	Read/Write	1: Text (Normal Text), 2: Text (Pencil Text (Black)), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy), 10: Map
790-321	Default Document Type for Color/Auto (ACS) (when Document Type is "Auto")	1~10	4: Text/Photo (Print)	Read/Write	1: Text (Normal Text), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy), 10: Map
790-322	Default Side 2 Edge Erase	0~1	0: Same as Side 1	Read/Write	0: Same as Side 1, 1: Side 1 as Target

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-350	Fixed Size 12 of Scan Document Size Input	1~255	88: Postcard SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-351	Fixed Size 13 of Scan Document Size Input	1~255	80: 11x17 SEF	Read/Write	ditto
790-352	Fixed Size 14 of Scan Document Size Input	1~255	92: 8.5x14 SEF	Read/Write	ditto
790-353	Fixed Size 15 of Scan Document Size Input	1~255	118: 8.5x13 SEF	Read/Write	ditto
790-354	Fixed Size 16 of Scan Document Size Input	1~255	90: 8.5x11 SEF	Read/Write	ditto
790-355	Fixed Size 17 of Scan Document Size Input	1~255	89: 8.5x11 LEF	Read/Write	ditto
790-360	Fixed Size 12 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-361	Fixed Size 12 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-362	Fixed Size 13 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-363	Fixed Size 13 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-364	Fixed Size 14 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-365	Fixed Size 14 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-366	Fixed Size 15 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-367	Fixed Size 15 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-368	Fixed Size 16 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-369	Fixed Size 16 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-370	Fixed Size 17 Fast Scan	0~297	NULL	Read/Write	15~297mm *Default Value is "0"
790-371	Fixed Size 17 Slow Scan	0~432	NULL	Read/Write	15~432mm *Default Value is "0"
790-380	SCAN Fixed R/E Default Setting 8	25~1025	1014: 122.50%	Read/Write	1~24: Not in use, 25~400:%, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006:64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1023: 220.00%, 1024: 282.80%, 1025: 400.00%
790-381	SCAN Fixed R/E Default Setting 9	25~1025	1017: 141.40%	Read/Write	ditto
790-382	SCAN Fixed R/E Default Setting 10	25~1025	1019: 163.20%	Read/Write	ditto
790-383	SCAN Fixed R/E Default Setting 11	25~1025	1022: 200.00%	Read/Write	ditto
790-384	SCAN Fixed R/E Default Setting 12	25~1025	1025: 400.00%	Read/Write	ditto
790-390	Output Size 9	1~255	70: B6 SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-391	Output Size 10	1~255	135: 3.5x5 (Photo L) LEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-392	Output Size 11	1~255	135: 3.5x5 (Photo L) LEF	Read/Write	ditto
790-393	Output Size 12	1~255	88: Postcard SEF	Read/Write	ditto
790-394	Output Size 13	1~255	80: 11x17 SEF	Read/Write	ditto
790-395	Output Size 14	1~255	92: 8.5x14 SEF	Read/Write	ditto
790-396	Output Size 15	1~255	118: 8.5x13 SEF	Read/Write	ditto
790-397	Output Size 16	1~255	90: 8.5x11 SEF	Read/Write	ditto
790-398	Output Size 17	1~255	89: 8.5x11 LEF	Read/Write	ditto
790-401	Menu Screen Favorite Setting 1	0~255	1: Copy	Read/Write	0: No features, 1: Copy, 2: FAX/iFAX, 3: Scan to E-mail, 4: Scan to Mailbox, 5: Scan to Server, 6: Scan to PC, 7: Box, 8: Print, 9: Job Flow Service, 10: Job Memory, 11: Multi Service, 12: Gemini, 13: DocuShare, 14: Media Print, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108: Recognition print, 109: Security print box, 110: Sample print box, 111: Specified print box time, 112: Private recognition print, 200: Screen brightness
790-402	Menu Screen Favorite Setting 2	0~255	2: FAX/iFAX	Read/Write	ditto
790-403	Menu Screen Favorite Setting 3	0~255	104: Language	Read/Write	ditto
790-404	Menu Screen Favorite Setting 4	0~255	3: Scan To Email	Read/Write	ditto
790-405	Menu Screen Favorite Setting 5	0~255	4: Scan To Mail Box	Read/Write	ditto
790-406	Menu Screen Favorite Setting 6	0~255	105: Create	Read/Write	ditto

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-407	Menu Screen Favorite Setting 7	0~255	5: Scan To Server	Read/Write	ditto
790-408	Menu Screen Favorite Setting 8	0~255	6: Scan To PC	Read/Write	ditto
790-409	Menu Screen Favorite Setting 9	0~255	106: Printer mode	Read/Write	ditto
790-410	Menu Screen Favorite Setting 10	0~255	7: Box	Read/Write	ditto
790-411	Menu Screen Favorite Setting 11	0~255	10: Job Memory	Read/Write	ditto
790-412	Menu Screen Favorite Setting 12	0~255	102: FAX Receive mode	Read/Write	ditto
790-413	Menu Screen Favorite Setting 13	0~255	9: Job Flow Service	Read/Write	ditto
790-414	Menu Screen Favorite Setting 14	0~255	0: No features	Read/Write	ditto
790-415	Menu Screen Favorite Setting 15	0~255	103: Activity Report	Read/Write	ditto
790-416	Menu Screen Favorite Setting 16	0~255	103: Activity Report	Read/Write	ditto
790-417	Menu Display Utility Setting 1	0~255	0: No features	Read/Write	0: No features, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108: Recognition print, 109: Security print box, 110: Sample print box, 111: Specified print box time, 112: Private recognition print, 200: Screen brightness
790-418	Menu Display Utility Setting 2	0~255	0: No features	Read/Write	ditto
790-419	Menu Display Utility Setting 3	0~255	0: No features	Read/Write	ditto
790-420	Menu Display Utility Setting 4	0~255	0: No features	Read/Write	ditto
790-421	Basic Copy Favorite Function Number (0/3/6)	0~2	1: Customized L1	Read/Write	0: Not Customized, 1: Customized L1, 2: Customized L2

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-422	Basic Copy Favorite Function Settings (L1-1)	0~255	26: Image Shift	Read/Write	Refer to the UI Dialog Specifications for the setting range as the contents of this column varies according to the product or launch. 0: Not Set, 1: Color Mode, 2: Image Quality Presets, 3: Image Quality of Originals, 4: Copy Density/Contrast (Color machine), 5: Copy Density (Open), 6: Sharpness/Saturation (Color machine), 7: Sharpness (BW machine), 8: Background Color Suppression, 9: Color Balance, 10: Color Shift, 21: 2 Sided Selection, 22: Bound Document, 23: Book Duplex, 24: Document Size Input, 25: Edge Erase, 26: Image Shift, 27: Auto Image Rotation, 28: Mirror Image/Negative/Positive Inversion, 29: Document Setting Direction, 30: Mixed Size Originals, 41: Collate, 42: Booklet Creation, 43: Covers, 44: Transparency Separators, 45: Multiple Up, 46: Poster, 47: Repeat Image, 48: Chapter Division / Separators Insertion / Tab Paper Copy, 49: Annotation, 50: Duplication Management, 51: Face Up Specification, 52: Fold, 61: Build Job, 62: Image Composition (Simple Composition Copy), 63: Extract/Delete, 65: Tab stock copy, 66: Luster, 67: Sample Copy, 68: Large amount of copy, 101: 2 Sided Selection (1 to 2 Sided (Head to Head)), 102: 2 Sided Selection (2 to 2 Sided (Head to Head)), 103: Mixed Size Originals (Direct Specification), 104: Image Shift (Center), 105: Collate (Collate), 106: Collate (Staple (Left Single)), 107: Collate (Staple (Left Double)), 108: Multiple Up (2 Up (Right to Left)), 109: Multiple Up (2 Up (Left to Right / Top to Bottom)), 110: Face Up Specification (Reverse Output Specification), 111: Fold (Z-Fold), 112: Sample Copy, 113: High Capacity Originals, 114: Double Copy, 115: Smaller
790-423	Basic Copy Favorite Function Settings (L1-2)	0~255	25: Edge Erase	Read/Write	ditto
790-424	Basic Copy Favorite Function Settings (L1-3)	0~255	5: Copy Density (Open)	Read/Write	ditto
790-425	Basic Copy Favorite Function Settings (L2-1)	0~255	26: Image Shift	Read/Write	ditto
790-426	Basic Copy Favorite Function Settings (L2-2)	0~255	3: Image Quality of Originals	Read/Write	ditto
790-427	Basic Copy Favorite Function Settings (L2-3)	0~255	5: Copy Density (Open)	Read/Write	ditto
790-428	Basic Copy Favorite Function Settings (L2-4)	0~255	0: No features	Read/Write	ditto
790-429	Basic Copy Favorite Function Settings (L2-5)	0~255	0: No features	Read/Write	ditto
790-430	Basic Copy Favorite Function Settings (L2-6)	0~255	0: No features	Read/Write	ditto
790-431	Basic Copy Favorite Function Settings (L2-7)	0~255	0: No Set	Read/Write	ditto
790-432	Basic Scan Favorite Function Number	0~1	0: Not Customized	Read/Write	0: Not Customized, 1: Customized L1
790-433	Basic Scan Favorite Function Settings (L1-1)	0~255	0: No Set	Read/Write	0: Not Set, 1: 2 Sided Scan, 2: Scan Resolution, 3: Scan Density, 4: Scan Ratio
790-434	Basic Scan Favorite Function Settings (L1-2)	0~255	0: No Set	Read/Write	0: Not Set, 1: 2 Sided Scan, 2: Scan Resolution, 3: Scan Density, 4: Scan Ratio
790-435	Current Display Language	1~32	1: Japanese	Read/Write	1: Japanese, 2: English, 3: French, 4: German, 5: Italian, 6: Spanish, 7: Portuguese, 8: Russian, 9: Chinese, 10: Korean, 11: Thai, 12: Vietnamese, 13: Chinese (Taiwan), 14: Dutch, 15: Danish, 16: Swedish, 17: Finnish, 18: Norwegian, 19: Portuguese (Brazil), 20: Bulgarian, 21: Polish, 22: Hungarian, 23: Romanian, 24: Czech, 25: Greek, 26: Turkish, 27: Arabic, 28: Persian, 29: Hebrew

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-436	Service Customize Key 1	0~255	1: Copy	Read/Write	0: No features, 1: Copy, 2: FAX/iFAX, 3: Scan to E-mail, 4: Scan to Mailbox, 5: Scan to Server, 6: Scan to PC, 7: Box, 8: Print, 9: Job Flow Service, 10: Job Memory, 11: Multi Service, 12: Gemini, 13: DocuShare, 14: Media Print, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108: Recognition print, 109: Security print box, 110: Sample print box, 111: specified print box of time, 112: Private recognition print
790-437	Service Customize Key 2	0~255	0: No features	Read/Write	ditto
790-438	Service Customize Key 3	0~255	0: No features	Read/Write	ditto
790-439	Keyboard Types Switch	0~1	0: Qwerty	Read/Write	0: Qwerty, 1: ABC
790-440	Supports ASCII Only keyboard	0~1	1: Displays non-ASCII items	Read/Write	0: Displays only ASCII items, 1: Displays non-ASCII items
790-441	Display Language Limit - Language 1	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-442	Display Language Limit - Language 2	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-443	Display Language Limit - Language 3	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-444	Display Language Limit - Language 4	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-445	Display Language Limit - Language 5	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-446	Display Language Limit - Language 6	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-447	Display Language Limit - Language 7	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-448	Display Language Limit - Language 8	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-449	Display Language Limit - Language 9	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-450	Display Language Limit - Language 10	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-451	Display Language Limit - Language 11	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-452	Display Language Limit - Language 12	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-453	Display Language Limit - Language 13	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-454	Display Language Limit - Language 14	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-455	Display Language Limit - Language 15	0~1	1: Display	Read/Write	0: Do not display 1: Display

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-456	Display Language Limit - Language 16	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-457	Display Language Limit - Language 17	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-458	Display Language Limit - Language 18	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-459	Display Language Limit - Language 19	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-460	Display Language Limit - Language 20	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-461	Display Language Limit - Language 21	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-462	Display Language Limit - Language 22	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-463	Display Language Limit - Language 23	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-464	Display Language Limit - Language 24	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-465	Display Language Limit - Language 25	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-466	Display Language Limit - Language 26	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-467	Display Language Limit - Language 27	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-468	Display Language Limit - Language 28	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-469	Display Language Limit - Language 29	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-470	Display Language Limit - Language 30	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-471	Display Language Limit - Language 31	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-472	Display Language Limit - Language 32	0~1	1: Display	Read/Write	0: Do not display 1: Display
790-473	Job List Display Filter Control	0~3	0: Displays All	Read/Write	0: Displays All, 1: Transfer, 2: Print, 3: Communications
790-478	Allow Key Reset Settings	0~1	1: ON	Read/Write	0: OFF, 1: ON
790-488	Menu Screen Favorite Setting 17	0~255	0: No features	Read/Write	0: No features, 1: Copy, 2: FAX/iFAX, 3: Scan to E-mail, 4: Scan to Mailbox, 5: Scan to Server, 6: Scan to PC, 7: Box, 8: Print, 9: Job Flow Service, 10: Job Memory, 11: Multi Service, 12: Gemini, 13: DocuShare, 14: Media Print, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108:Recognition print, 109:Security print box, 110:Sample print box, 111:Specified print box time, 112:Private recognition print, 200:Screen brightness

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-489	Menu Screen Favorite Setting 18	0~255	0: No features	Read/Write	ditto
790-490	Menu Display Utility Setting 5	0~255	0: No features	Read/Write	0: No features, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108: Recognition print, 109: Security print box, 110: Sample print box, 111: Specified print box time, 112: Private recognition print, 200: Screen brightness
790-491	Menu Display Utility Setting 6	0~255	0: No features	Read/Write	ditto
790-492	Menu Display Utility Setting 7	0~255	0: No features	Read/Write	ditto
790-493	Menu Display Utility Setting 8	0~255	0: No features	Read/Write	ditto
790-494	Menu Display Utility Setting 9	0~255	0: No features	Read/Write	ditto
790-550	FAX Fixed R/E Setting 8	25~1025	1014: 122.50%	Read/Write	1~24: Not in use, 25~400: %, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006: 64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1024: 282.80%, 1025: 400.00%
790-551	FAX Fixed R/E Setting 9	25~1025	1017: 141.40%	Read/Write	ditto
790-552	FAX Fixed R/E Setting 10	25~1025	1019: 163.20%	Read/Write	ditto
790-553	FAX Fixed R/E Setting 11	0~1025	1022: 200.00%	Read/Write	ditto
790-554	FAX Fixed R/E Setting 12	25~1025	1025: 400.00%	Read/Write	ditto
790-560	Fixed Size 12 of FAX Scan Size Input	1~255	88: Postcard SEF	Read/Write	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: Post-Card (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-561	Fixed Size 13 of FAX Scan Size Input	1~255	80: 11x17 SEF	Read/Write	ditto
790-562	Fixed Size 14 of FAX Scan Size Input	1~255	92: 8.5x14 SEF	Read/Write	ditto

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-563	Fixed Size 15 of FAX Scan Size Input	1~255	118: 8.5x13 SEF	Read/Write	ditto
790-564	Fixed Size 16 of FAX Scan Size Input	1~255	90: 8.5x11 SEF	Read/Write	ditto
790-565	Fixed Size 17 of FAX Scan Size Input	1~255	89: 8.5x11 LEF	Read/Write	ditto
790-566	FAX Pass Stamp UI Default	0~1	0: OFF	Read/Write	0: OFF, 1: ON
790-570	User permission settings for PTT country modification	0~2	0: Prohibited	Read/Write	0: Prohibited, 1: Allow for EU country settings, 2: Allow for NA country settings
790-621	The display after scanning by Scan Service is completed	0~2	0: Do not display 7sec "Scanning completed" message and "Transferring data" screen	Read/Write	0: Do not display 7sec "Scanning completed" message but not the "Transferring data" screen; 1: Display 7sec "Scanning completed" message and the "Transferring data" screen
790-630	No. of digits for Assumed Speed Dial No.	0~6	0: Actual Address Book	Read/Write	0: Actual Address Book 3: 3-digit Virtual Address Book 4: 4-digit Virtual Address Book 5: 5-digit Virtual Address Book 6: 6-digit Virtual Address Book (*1, 2 cannot be set up)
790-631	Move Registration Data in Address Book	0~1	0: Do not transfer	Read/Write	0: Do not transfer, 1: Transfer
790-632	Added Thumbnail Default (Net Save)	0, 1	1: Add	RW	0: Do not add, 1: Add
790-633	Added Thumbnail Default (Mail)	0, 1	0: Do not add	RW	0: Do not add, 1: Add
790-640	Paper Type Change Screen Display	0~255	0: Do not display	RW	0: Do not display, 1: Display
790-641	Paper Information Color Attribute Display Availability	0~255	0: Do not display	Read/Write	0: Do not display, 1: Display
790-642	Paper Information Other Attributes Display Availability	0~255	1: Display applied size	Read/Write	0: Do not display, 1: Display applied size, 2: Display hole punch attributes, 3: Display color attributes
790-661	Report Storage Mailbox	1~500	1	Read/Write	Mailbox No.
790-662	Consumables Check Auto Display Timing Settings	0~2	0: Do not display	Read/Write	0: Do not display, 1: Display only after the Power ON initialization sequence has completed and the system is Ready, 2: Display every time auto clear occurred
790-664	Address Book Import Operation Mode	0, 1	0: Add Mode	Read/Write	[0: Add Mode, 1: Substitute Mode]
790-665	Paper Tray Settings Screen Access on Setup Menu	0, 1	1: ON	Read/Write	[0: OFF, 1: ON]
790-666	DADF Mixed Standard Size Scan Mode Display Settings	0, 1	1: Display	Read/Write	0: Do not display, 1: Display
790-667	Blank Document Detection Feature Panel Default	0, 1	0: OFF	Read/Write	[0: OFF, 1: ON]
790-668	Allow/Prohibit JT/FT/Address Book Registration Settings	0, 1	0: Prohibit	Read/Write	[0: Prohibit, 1: Allow]

Table 8 UI

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-670	Blank Document Detection Feature Display Settings	0, 1	0: Do not display	Read/Write	0: Do not display 1: Display
790-671	Auto Resume Feature Settings	0, 1	1: Auto Resume	Read/Write	0: Do not Auto Resume 1: Auto Resume
790-672	Auto Clear Time-Out Display Screen	0, 1	1: Follow M/C configuration	Read/Write	0: Maintain previous service 1: Follow M/C configuration
790-674	Basic FAX favorite setting (2nd row)	0~255	0: Not set	Read/Write	0: Not set, 1: 2 Sided Document Feed, 2: Monitor Report, 3: Communication Mode, 4: Send Header
790-676	Separator Tray Default for Build Separator Insertion	1~8	5: SMH	Read/Write	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-677	Side1 Cover Tray Default for Cover	1~8	5: SMH	Read/Write	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-678	Side2 Cover Tray Default for Cover	1~8	5: SMH	Read/Write	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-679	Side1 Cover Tray Default for Booklet	1~8	5: SMH	Read/Write	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-680	Fax Number Double Input Restriction	0, 1	0: Do not allow double input	Read/Write	0: Do not allow double input 1: Allow double input
790-682	Separator Sheet Default Tray Setting	0~8	5: SMH	Read/Write	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer Refer to the FF of Copy Service Func for the setup range.
790-683	Brightness/Contrast Settings	-127~127	0	Read/Write	-127~127 (Because the valid range for each MCW Panel is different, the upper and lower limit values are controlled through the UI Panel)
790-684	UI Screen Default Shortcut Screen Settings	0, 1	0: Do not display anything	Read/Write	0: Do not display anything, 1: Display login screen

Chain 790-xxx Chain 810-xxx Copy Service

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-600	Poster Overlap Width	1~25	10mm	Read/Write	10mm~25mm
790-601	Index Paper Copy Image Shift Amount	0~15	13mm	Read/Write	0mm~15mm
790-602	Default Output Face	0~3	Auto	Read/Write	0: Auto, 1: Output Side 2, 2: Output Side 1, 3: Output in reverse order
790-604	Single Copy Output Face Switch	0, 1	Face Up	Read/Write	0: Face Up, 1: Face Down
790-605	Sample Copy Default	0~1	0: Disable Sample Copy	Read/Write	0: Disable Sample Copy, 1: Enable Sample Copy

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
790-605	Sample Copy Default	0~1	0: Disable Sample Copy	Read/Write	0: Disable Sample Copy, 1: Enable Sample Copy
790-606	Print Pattern Default (Page Number)	1~6	1: N	Read/Write	1: N, 2: -N-, 3: Page N, 4: N/M, 5: -N/M-, 6: Page N/M
790-607	Print Position Default (Page Number)	1~6	6: Bottom Center	Read/Write	1: Top Left, 2: Top Right, 3: Top Center, 4: Bottom Left, 5: Bottom Right, 6: Bottom Center
790-609	Side 2 Position Specification (Page Number)	0~1	0: Opposite position	Read/Write	0: Opposite position, 1: Same Position
790-611	Print Position Default (Date)	1~6	5: Bottom Right	Read/Write	1: Top Left, 2: Top Right, 3: Top Center, 4: Bottom Left, 5: Bottom Right, 6: Bottom Center
790-613	Side 2 Position Specification (Date)	0~1	0: Opposite position	Read/Write	0: Opposite position, 1: Same Position
790-614	Print Position Default (Stamp)	1~9	5: Top Right	Read/Write	1: Top Left, 2: Top Right, 3: Top Center, 4: Bottom Left, 5: Bottom Right, 6: Bottom Center, 7: Bottom Left Center, 8: Bottom Right Center 9: Center
790-616	Color Default (Stamp)	1~7	1: Black	Read/Write	1: Black, 2: Red, 3: Green, 4: Blue, 5: Yellow, 6: Magenta, 7: Cyan
790-617	Permeability (Stamp)	0~2	0: 0% (Solid)	Read/Write	0: [0% (Solid), 1: 25%, 2: 50%
790-618	Side 2 Position Specification (Stamp)	0~1	1: Same Position	Read/Write	0: Opposite position, 1: Same Position
790-619	Based on the Mixed Document Direction for Stamp	0~1	1: Set for each sheet	Read/Write	0: Set by first sheet, 1: Set for each sheet
790-620	Allover Copy Execution Availability	1, 2	1: [Do not execute (reduce slightly)]	Read/Write	1: [Do not execute (reduce slightly)] 2: [Execute Allover Copy]
810-002	Y Component	0~128	102: 80%	Read/Write	0%~100%, 1/128% Units (0~128)
810-003	M Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-004	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-005	Y Component	0~128	118: 92%	Read/Write	0%~100%, 1/128% Units (0~128)
810-006	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-007	C Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-008	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-009	M Component	0~128	102: 80%	Read/Write	0%~100%, 1/128% Units (0~128)
810-010	C Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-011	Y Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-012	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-013	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-014	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-015	M Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-016	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-017	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-018	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-019	C Component	0~128	128: 100%	Read/Write	0%~100%, 1/128% Units (0~128)
810-020	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-021	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-022	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-023	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-024	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-025	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-026	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-027	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-028	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-029	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-030	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-031	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-032	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-033	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-034	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-035	Y Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-036	M Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-037	C Component	0~128	0: 0%	Read/Write	0%~100%, 1/128% Units (0~128)
810-038	Background Color Suppression	0~1	0: Disable	Read/Write	1: Enable, 0: Disable
810-039	Density Adjustment	0~6	2: Lighter 1	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-040	Color Balance (Y: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-041	Color Balance (Y: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-042	Color Balance (Y: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-043	Color Balance (M: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-044	Color Balance (M: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-045	Color Balance (M: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-046	Color Balance (C: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-047	Color Balance (C: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-048	Color Balance (C: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-049	Color Balance (K: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-050	Color Balance (K: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-051	Color Balance (K: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-052	Color Shift	0~4	2: 0 degree	Read/Write	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-053	Color Saturation	0~4	0: Higher	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-054	Sharpness	0~4	2: Normal	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-055	Contrast	0~4	2: Normal	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-056	Background Color Suppression	0, 1	0: Disable	Read/Write	1: Enable, 0: Disable
810-057	Density Adjustment	0~6	4: Darker 1	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-058	Color Balance (Y: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-059	Color Balance (Y: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-060	Color Balance (Y: High Density)	0~6	6: Darker 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-061	Color Balance (M: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-062	Color Balance (M: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-063	Color Balance (M: High Density)	0~6	6: Darker 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-064	Color Balance (C: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-065	Color Balance (C: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-066	Color Balance (C: High Density)	0~6	6: Darker 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-067	Color Balance (K: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-068	Color Balance (K: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-069	Color Balance (K: High Density)	0~6	6: Darker 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-070	Color Shift	0~4	2: 0 degree	Read/Write	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-071	Color Saturation	0~4	1: High	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-072	Sharpness	0~4	0: Higher	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-073	Contrast	0~4	0: Higher	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-074	Background Color Suppression	0~1	1: Enable	Read/Write	1: Enable, 0: Disable

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-075	Density Adjustment	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-076	Color Balance (Y: Low Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-077	Color Balance (Y: Medium Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-078	Color Balance (Y: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-079	Color Balance (M: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-080	Color Balance (M: Medium Density)	0~6	4: Darker 1	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-081	Color Balance (M: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-082	Color Balance (C: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-083	Color Balance (C: Medium Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-084	Color Balance (C: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-085	Color Balance (K: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-086	Color Balance (K: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-087	Color Balance (K: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-088	Color Shift	0~4	2: 0 degree	Read/Write	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-089	Color Saturation	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-090	Sharpness	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-091	Contrast	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-092	Background Color Suppression	0~1	1: Enable	Read/Write	1: Enable, 0: Disable
810-093	Density Adjustment	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-094	Color Balance (Y: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-095	Color Balance (Y: Medium Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-096	Color Balance (Y: High Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-097	Color Balance (M: Low Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-098	Color Balance (M: Medium Density)	0~6	0: Lighter 3	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-099	Color Balance (M: High Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-100	Color Balance (C: Low Density)	0~6	4: Darker 1	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-101	Color Balance (C: Medium Density)	0~6	5: Darker 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-102	Color Balance (C: High Density)	0~6	5: Darker 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-103	Color Balance (K: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-104	Color Balance (K: Medium Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-105	Color Balance (K: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-106	Color Shift	0~4	2: 0 degree	Read/Write	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-107	Color Saturation	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-108	Sharpness	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-109	Contrast	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-110	Background Color Suppression	0~1	1: Enable	Read/Write	1: Enable, 0: Disable
810-111	Density Adjustment	0~6	2: Lighter 1	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-112	Color Balance (Y: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-113	Color Balance (Y: Medium Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-114	Color Balance (Y: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-115	Color Balance (M: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-116	Color Balance (M: Medium Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-117	Color Balance (M: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-118	Color Balance (C: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-119	Color Balance (C: Medium Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-120	Color Balance (C: High Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-121	Color Balance (K: Low Density)	0~6	3: Normal	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-122	Color Balance (K: Medium Density)	0~6	1: Lighter 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-123	Color Balance (K: High Density)	0~6	5: Darker 2	Read/Write	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-124	Color Shift	0~4	2: 0 degree	Read/Write	0: -2 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-125	Color Saturation	0~4	2: Normal	Read/Write	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-126	Sharpness	0~4	2: Normal	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-127	Contrast	0~4	1: Sharp	Read/Write	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-129	Max. No. of Copy Sheets accumulated	1~999	999	Read/Write	1-999: [1~999 pages]
810-132	Enable/Disable ATS Implementation	0~2	1: APS Only	Read/Write	1: APS Only, 0: Always (Even for manual tray selection)
810-136	Availability of Duplex APS Chapters	0~1	0: Disable	Read/Write	0: Disable, 1: Enable
810-156	Text Effect Default	1~3	1: Embossed	Read/Write	1: Embossed, 2: Outline, 3: Text
810-157	Text Size	1~125	48: 48 points	Read/Write	48: 48 points, 64: 64 points, 80: 80 points
810-158	Background Pattern	1~8	8: Fan	Read/Write	1: Wave, 2: Circle, 3: Stripe, 4: Chain, 5: Beam, 6: Rhombic, 7: Sunflower, 8: Fan
810-159	Background Color (Text Color)	9~12	9: Black	Read/Write	9: Black, 11: Magenta, 12: Cyan
810-160	Density	7~9	8: Normal	Read/Write	9: Light, 8: Normal, 7: Dark
810-161	Contrast	0~13	7	Read/Write	-
810-162	Printing Pattern (Date)	1~4	1	Read/Write	1: 20yy/mm/dd (hh: mm), 2: mm/dd/20yy (hh: mm), 3: dd/mm/20yy (hh: mm), 4: 20yy year mm month dd date (hh hour mm minute) (hh hour mm min)
810-163	Copy Forced Analog Water-Mark Output Settings	0~1	0: Do not print	Read/Write	0: Do not print, 1: Print
810-164	Client Print Forced Analog Watermark Output Settings	0~1	0: Do not print	Read/Write	0: Do not print, 1: Print
810-165	Device Activation Print Forced Analog Watermark Output Settings	0~1	0: Do not print	Read/Write	0: Do not print, 1: Print
810-166	Media Print Forced Analog Watermark Output Settings	0~1	0: Do not print	Read/Write	0: Do not print, 1: Print
810-212	Side 2 Print Page Position Fine Adjustment (Horizontal)	0~400	200	Read/Write	0~200: Settings x 0.5 (mm)
810-213	Side 2 Print Page Position Fine Adjustment (Vertical)	0~400	200	Read/Write	0~200: Settings x 0.5 (mm)
810-214	Stamp User Registered Text 1		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-215	Stamp User Registered Text 2		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-216	Stamp User Registered Text 3		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-217	Stamp User Registered Text 4		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-218	Stamp User Registered Text 5		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)

Table 9 Copy Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
810-219	Stamp User Registered Text 6		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-220	Stamp User Registered Text 7		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-221	Stamp User Registered Text 8		NULL	Read/Write	64+1 Bytes (32 double byte characters, 64 single byte characters)
810-222	AWM User Registered Text 1		NULL	Read/Write	32+1 Bytes (16 double byte characters, 32 single byte characters)
810-223	AWM User Registered Text 2		NULL	Read/Write	32+1 Bytes (16 double byte characters, 32 single byte characters)
810-224	AWM User Registered Text 3		NULL	Read/Write	32+1 Bytes (16 double byte characters, 32 single byte characters)
810-225	Font Size (Stamp)	1~255	48 (Points)	Read/Write	6~64 (Points)
810-226	Font Size (Date) Default	1~255	10 (Points)	Read/Write	6~24 (Points)
810-227	Font Size (Page Number) Default	1~255	10 (Points)	Read/Write	6~24 (Points)
810-228	Text Default (Stamp)	1~71	1: CONFIDENTIAL	Read/Write	1: CONFIDENTIAL, 2: VOID, 4: Copy Prohibited, 6: IMPORTANT, 7: Circulate, 8: URGENT, 9: Ignore Side 2, 10: DRAFT, 64: Stamp Custom Text 1, 65: Stamp Custom Text 2, 66: Stamp Custom Text 3, 67: Stamp Custom Text 4, 68: Stamp Custom Text 5, 69: Stamp Custom Text 6, 70: Stamp Custom Text 7, 71: Stamp Custom Text 8
810-229	Text Default (AWM)	1~34	4: Copy Prohibited	Read/Write	3: Duplicate, 4: Copy Prohibited, 5: Copy, 32: AWM Custom Text 1, 33: AWM Custom Text 2, 34: AWM Custom Text 3

Chain 800-xxx Chain 806-xxx Print Service

Table 10 Print Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
800-001	Operation when no tray contains the specified paper size	1~8	6: Display Add Paper.	Read/Write	6: Display Add Paper (No SPS), 5: Use Larger Size (No adjustment), 2: Use Nearest Size (Adjust), 7: Oceans2 only, do not use substitute tray (Abort) 8: (Added after Kutani) Feed from Bypass tray
800-006	Print Area	1~2	1: Normal	Read/Write	1: Normal, 2: Expand
800-016	ID Print	1~5	5: Disables ID Print	Read/Write	1: Prints on upper left, 2: Prints on upper right, 3: Prints on bottom left, 4: Prints on bottom right, 5: Disables ID Print

Table 10 Print Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
800-017	Security Print Output Operation	0~1	1: TRUE: Allow Device Print	Read/Write	1: TRUE: Allow Device Print, 0: FALSE: Forbid Device Print
800-018	Force Extend Print	0~2	1: Do not force extend print	Read/Write	1: Do not force extend print, 2: Force extend print (For Kutani, installed from P/L)
806-996	Font Mismatch	0~1	0: Use a substitute font	Read/Write	0: Use a substitute font, 1: End the job
806-997	ATCX	0~1	0: ON	Read/Write	0: ON, 1: OFF
806-998	PS Color Default	0~1	1: Color	Read/Write	0: BW, 1: Color
806-999	DMS Settings	0~1	1: Enable	Read/Write	0: Disable, 1: Enable

Chain 820-xxx Chain 823-xxx Chain 825-xxx FAX Service

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
820-006	Output Tray of Mail Box Print (Including printing by instruction)	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-010	Output Tray of Fax Receive Print receive by line 0 (Extension)	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-011	Output Tray of Fax Receive Print received by line 1	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-012	Output Tray of Fax Receive Print received by line 2	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-013	Output Tray of Fax Receive Print received by line 3	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-014	Output Tray of Fax Receive Print received by line 4	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-015	Output Tray of Fax Receive Print received by line 5	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-016	2 Sided print setting (Receive Print/Report Print/Confirmation Print)	0~2	0: 1 Sided	Read/Write	0: 1 Sided, 1: 2 Sided
820-019	When printing cannot be performed due o Forced Polling Selection printer failure, the acting document of the document received and other documents will be taken from the external FAX by Polling. AE Refer to Host(FAXCont).	0~1	0: OFF	Read/Write	0: OFF, 1: Forced Polling
820-024	Broadcast/Multi-Poll Report Instruction Disable	0~1	0: Permit	Read/Write	0: Permit, 1: Prohibit
820-025	90 Degree Rotation Storing at FAX Scan	0~1	1: 90 Degree Rotation Storing ON	Read/Write	0: 90 Degree Rotation Storing OFF, 1: 90 Degree Rotation Storing ON

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
820-026	Scan Illegal Operation (Operation when there was no specific Timing when an error occurs in storing)	0~1	1: Enable stored documents (Default value before PL2 was 0)	Read/Write	0: Discard stored documents, 1: Enable stored documents
820-027	Scan resolution in "G3 Auto" or "International Communication"	0~2	2=Fine (600/400) is Inch series, and others are millimeter series	Read/Write	0: Select the resolution for millimeter series 1: Select the resolution for inch series 2: Fine (600/400) is for inch series and others for millimeter series
820-028	Letter/Legal Scan Instruction (Specify whether to reduce Letter/Legal to A4 to scan)	0~1	0: 100%	Read/Write	0: 100%, 1: Reduce to A4
820-030	0= Preparing for use. Checking whether the machine can switch to Ready mode. 1= Can be used 255= Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 1: Can be used 255: Cannot be used
820-031	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-032	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-033	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-034	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-035	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-036	0= Preparing for use. Checking whether the machine can switch to Ready mode. 2=G3 PSTN can be used 3=G3 ISDN can be used 4=G4 ISDN can be used 5=G3 can be used 255=Cannot be used	0~255	-	Read	0: Preparing for use. Checking whether the machine can switch to Ready mode. 2: G3 PSTN can be used 3: G3 ISDN can be used 4: G4 ISDN can be used 5: G3 can be used 255: Cannot be used
820-037	Maximum No. of Storage	~999	999 sheets	Read/Write	1~999 sheets

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
820-038	Auto Fax Report Output Tray Selection	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray 2: Finisher Tray, *Options that are not installed cannot be selected
820-039	User-Select Fax Report Output Tray Selection	0~3	0: Center Tray	Read/Write	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, *Options that are not installed cannot be selected
820-040	Mailbox Document Attribute Delivery Priority-0 (Highest)	0~4	0: F code	Read/Write	0: F code, 1: Caller ID, 2: Remote ID, 3: Remote Name, 4: Dial-in Number
820-041	Mailbox Document Attribute Delivery Priority-1	0~4	1: Caller ID	Read/Write	0: F code, 1: Caller ID, 2: Remote ID, 3: Remote Name, 4: Dial-in Number
820-042	Mailbox Document Attribute Delivery Priority-2	0~4	2: Remote ID	Read/Write	0: F code, 1: Caller ID, 2: Remote ID, 3: Remote Name, 4: Dial-in Number
820-043	Mailbox Document Attribute Delivery Priority-3	0~4	3: Remote Name	Read/Write	0: F code, 1: Caller ID, 2: Remote ID, 3: Remote Name, 4: Dial-in Number
820-044	Mailbox Document Attribute Delivery Priority-4 (Lowest)	0~4	4: Dial-in Number	Read/Write	0: F code, 1: Caller ID, 2: Remote ID, 3: Remote Name, 4: Dial-in Number
820-045	Fax Scan Edge Erase Margin Specification - Top/Bottom Edge Erase Margin	0~50	0mm	Read/Write	0~50 Unit: mm
820-046	Fax Scan Edge Erase Margin Specification - Left/Right Edge Erase Margin	0~50	0mm	Read/Write	0~50 Unit: mm
820-047	FAX Manual Send Menu Display Settings	0~1	1: Display	Read/Write	0: No display 1: Display
820-048	Sender Records for I-FAX Off Ramp (Sender Records for iFAX to FAX)	0~1	1: Yes	Read/Write	0: No, 1: Yes
820-052	Immediate Send Shift Memory Threshold	0~99	No HDD=20% HDD=0% (Do not do Immediate Send)	Read/Write	0~99% Step 1%.
820-053	Immediate Send Scan Memory Threshold	0~100	No HDD=5% HDD=0%	Read/Write	0~100% Step 1%.
820-054	Immediate Receive Shift Memory Threshold	0~99	No HDD=20% HDD=0% (Do not do Immediate Receive)	Read/Write	0~99% Step 1%.
820-056	Print Received Fax Paper Tray Map 1	0~500	0: OFF	Read/Write	Mailbox Number for Tray 1
820-057	Print Received Fax Paper Tray Map 2	0~500	0: OFF	Read/Write	Mailbox Number for Tray 2
820-058	Print Received Fax Paper Tray Map 3	0~500	0: OFF	Read/Write	Mailbox Number for Tray 3
820-059	Print Received Fax Paper Tray Map 4	0~500	0: OFF	Read/Write	Mailbox Number for Tray 4
820-120	Upper Limit for Image Data Amount Allowed in 1 Transmission	0~255	:0 (No limit)	Read/Write	0~255, 0=No limit. Unit: 0.1 Mbyte
820-122	FAX PL2 DADF Document Scan Mode	1, 2	1: Non-standard Scan	Read/Write	1: Non-standard Scan, 2: Standard Scan
820-123	Blank Document Detection Feature	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
820-125	DIS Transmission Bit Disable Settings	0, 1	0: Do not disable	Read/Write	0: Do not disable 1: Disable
820-126	Blank Document Detection Reference Value	0~65535	34729	Read/Write	34729~52094

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
820-127	Blank Data Estimation Correction Coefficient	0~65535	1000	Read/Write	1000~1500
820-128	Blank Detection Threshold Correction Coefficient	0~65535	250	Read/Write	0~500
820-129	Resend Unsent Documents	0, 1	0: OFF	Read/Write	0: OFF 1: ON
820-130	Delete Unsent Documents	0, 1	1: Auto delete after 24 hours have passed	Read/Write	0: Do not auto delete 1: Auto delete after 24 hours have passed
820-131	Resend Unsent Documents from Job Cancellation	0, 1	0: OFF	Read/Write	0: OFF 1: ON
820-132	Official Stamp Capability (XIPS) Availability	0, 1	0: OFF	Read/Write	0: OFF 1: ON
823-001	Receive Mode Setting	0~1	0: Auto Receive	Read/Write	0: Auto Receive (Auto Answer Incoming), 1: Manual Receive (No Auto Answer Incoming)
823-002	DM (Direct Mail) Prevention Function (Only faxes from a registered in the Speed Dial is received)	0~1	0: Do not prevent	Read/Write	0: Do not prevent, 1: Prevent, 1=Prevent
823-006	Receive header (CIL) in G4 Receive	0~1	0: No	Read/Write	0: No, 1: Yes
823-007	Send Header at Polling (except forced polling).	0~1	1: Yes	Read/Write	0: No, 1: Yes
823-011	The maximum user data field length of the data packet used in the Packet Size (Send) G4 Communication/Network Layer. For Ch0	0x07~0x0b	2048bytes	Read/Write	Send Packet Size 0x07: 128 0x08: 256 0x09: 512 0x0a: 1024 0x0b: 2048
823-012	Enable/Disable Setting of the Symmetry process to the box that used the service	0~1	0: Disable	Read/Write	0: Disable, 1: Enable
823-013	Enable/Disable Setting of the Symmetry process to the box by receive line	0~1	0: Disable	Read/Write	0: Disable, 1: Enable
823-014	Telephone Number Box Symmetry priority	0~1	Dial-in no. at highest priority	Read/Write	0: Dial-in no. at highest priority, 1: Dial-out tel. No. at highest priority
823-015	Line Monitor Settings. You can monitor the dial tone and the other party's response using the speaker from the start of auto dialing until the other party pick up the call.	0~1	1: Line Monitor ON	Read/Write	0: Line Monitor OFF, 1: Line Monitor ON
823-016	No. of Redials. The No. of Auto-Dials when there is no response due to line busy etc. after the first Auto-Dial.	0~9	5: 5 times	Read/Write	0 ~ 9 times (0: No Redial), step: 1 time
823-017	Redial Interval	0~15	1: 1 min	Read/Write	0 min (0) ~ 15 min (0x0F), step=1 min
823-018	Communication Interval (Time between Line opening and automated closing)	3~255	8sec (8)	Read/Write	3 second (3) ~ 255 second (0xFF), step=1 second

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
823-019	Receive Print/Page Composition (2up)	0~1	0: Page Composition OFF	Read/Write	0: Page Composition OFF, 1: Page Composition ON
823-020	Page Segmentation Threshold	0x00~0x7F	16mm (0x10)	Read/Write	0mm (0) ~127mm (0x7F), step=1mm
823-021	Auto Reduction Mode (Auto Reduction Receive: If the Receive Information has exceeded the length of paper used for recording but within the threshold limit, you can use variable zoom to reduce the information to fit into a sheet of paper.)	0~1	1: Auto Reduction	Read/Write	0: Print at 100%, 1: Auto Reduce
823-022	Batch Send. If Send reservation for the same address is available after the last page is sent, the Send transmission will continue without disconnecting.	0~1	1: ON	Read/Write	0: OFF, 1: ON
823-023	Sending from LOCAL I.D	0~1	1: ON	Read/Write	0: Disable, 1: Enable
823-024	ISDN Local ID Send Setting for Ch0	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-025	ISDN Local ID Send Setting for Ch1	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-026	ISDN Local ID Send Setting for Ch2	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-027	ISDN Local ID Send Setting for Ch3	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-028	ISDN Local ID Send Setting for Ch4	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-029	ISDN Local ID Send Setting for Ch5	0~1	0: Do not send	Read/Write	0: Do not send, 1: Send
823-030	Dial Type For Ch0	0~2	0	Read/Write	0: PB (DTMF), 1: DP (10 PPS), 2: DP (20 PPS)
823-031	Dial Type For Ch1	0~2	0	Read/Write	0: PB (DTMF), 1: DP (10 PPS), 2: DP (20 PPS)
823-032	Dial Type For Ch2	0~2	0	Read/Write	0: PB (DTMF), 1: DP (10 PPS), 2: DP (20 PPS)
823-033	Dial Type For Ch3	0~2	0	Read/Write	0: PB (DTMF), 1: DP (10 PPS), 2: DP (20 PPS)
823-034	[NVM Name] Dial Type For Ch4	0~2	0	Read/Write	0 = PB (DTMF), 1 = DP (10 PPS), 2 = DP (20 PPS)
823-035	Dial Type For Ch5	0~2	0	Read/Write	0: PB (DTMF), 1: DP (10 PPS), 2: DP (20 PPS)
823-036	Line Type For Ch0	0~1	1	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-037	Line Type For Ch1	0~1	0	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-038	Line Type For Ch2	0~1	0	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-039	Line Type For Ch3	0~1	0	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-040	Line Type For Ch4	0~1	0	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-041	Line Type For Ch5	0~1	0	Read/Write	0: PSTN (Public Telephone Network), 1: PBX (Private Branch Exchange)
823-042	Set the service (for which contract is made) in Ch0.	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
823-043	Set the service (for which contract is made) in Ch1	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line
823-044	Set the service (for which contract is made) in Ch2	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line
823-045	Set the service (for which contract is made) in Ch3	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line
823-046	Set the service (for which contract is made) in Ch4	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line
823-047	Set the service (for which contract is made) in Ch5	-	0: Normal line	Read/Write	Assign the service in Bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1: Local ID Notification Service Line xxxx xx1x: Modem Dial-In Service Line
823-049	G3 ISDN Transmission Capability Setting	0~1	0: 3.1K Audio	Read/Write	0: 3.1K Audio, 1: Speech
823-050	Calling frequency for Fax use (Ring Detect)	0~9	0: 0 times	Read/Write	0~9 (times)
823-051	Reception Paper Declaration Mode Selection (The Receiving Station performs the Receive Ability (Size) with respect to the Sending Station. With this, the user at receiving side can limit or select the Send document size from the Sender)	0~1	0: Tray Selection	Read/Write	0: Tray Selection, 1: User Selection
823-052	Selection of Log Paper in User declaration mode	-	All papers available	Read/Write	1st byte bit 1: A3SEF, bit 2: A4SEF, bit 5: B4SEF, 2nd byte bit 0: LetterSEF, 3rd byte bit 2: A4LEF, bit 3: A5LEF, bit 6: B5LEF, bit =0: No paper bit=1: Paper detected.
825-001	1300HZ Incoming Receive ON/OFF Setting	0~1	1=ON (Receive)	Read/Write	0: OFF (Reject), 1: ON (Receive)
825-002	Registers Power Cutoff/Reboot (including emergency) in Activity Report.	0~1	0: Do not register	Read/Write	0: Do not register, 1: Register
825-009	Pause Time. Pause Symbol Wait Time.	0~12	60 (3sec)	Read/Write	0sec (0) ~ 12sec (240) step=50msec
825-017	Line Cutoff Detection for Ch0	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-018	Line Cutoff detection For Ch1	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection
825-019	Line Cutoff detection For Ch2	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection
825-020	Line Cutoff detection For Ch3	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection
825-021	Line Cutoff detection For Ch4	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection
825-022	Line Cutoff detection For Ch5	0~1	1: Detect disconnection	Read/Write	0: Do not detect disconnection, 1: Detect disconnection
825-024	To determine fallback redial from G4 to G3 when CAUSE #42 and #65 were received in ISDN communication.	0~1	0 = Fallback Redial OFF	Read/Write	0 = Fallback Redial OFF, 1 = Fallback Redial ON
825-025	Process to determine continuity in the Transmitter when RTN was received. This is meant for ZZP.	0~1	0: Continue	Read/Write	0: Determine the fallback from the TCF check result and continue sending. 1: Stop transmission. (The document becomes eligible for resend)
825-033	Timing of tone detection before dialing (PBX). The time required to detect the Tone before dialing. For PBX.	0~255	4	Read/Write	0 ~ 255 (Sec)
825-046	PB Send Level Ch0	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-047	PB Send Level Ch1	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-048	PB Send Level Ch2	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-049	PB Send Level Ch3	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-050	PB Send Level Ch4	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-051	PB Send Level Ch5	0~15	6	Read/Write	0: 0dBm (0) --15: 15dBm step: -1dBm
825-052	PB Send Level (high-pass - low-pass (dB)) For Ch0	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0, 1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5
825-053	PB Send Level (high-pass - low-pass (dB)) For Ch1	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0, 1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5
825-054	PB Send Level (high-pass - low-pass (dB)) For Ch2	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0, 1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5
825-055	PB Send Level (high-pass - low-pass (dB)) For Ch3	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0, 1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5
825-056	PB Send Level (high-pass - low-pass (dB)) For Ch4	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0, 1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5
825-057	PB Send Level (high-pass - low-pass (dB)) For Ch5	0~15	0	Read/Write	High-pass - Low-pass (dB) 0: 2.0,1: 2.52:3.0A3:3.5A4:4.0A5:4.5A6:5.0A7:5.5A8:-2.0A9:-1.5A10:-1.0A11:-0.5A12:0 13:0.5A14:1.0A15:1.5

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-058	Busy Tone detection before dialing For Ch0	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-059	Busy Tone detection before dialing For Ch1	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-060	Busy Tone detection before dialing For Ch2	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-061	Busy Tone detection before dialing For Ch3	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-062	Busy Tone detection before dialing For Ch4	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-063	Busy Tone detection before dialing For Ch5	0~1	0: Do not detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-064	Dial Tone detection before dialing For Ch0	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-065	Dial Tone detection before dialing For Ch1	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-066	Dial Tone detection before dialing For Ch2	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-067	Dial Tone detection before dialing For Ch3	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-068	Dial Tone detection before dialing For Ch4	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-069	Dial Tone detection before dialing For Ch5	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-070	Dial Tone detection before dialing (PBX)	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-071	Timing of tone detection before dialing for Ch0	0~255	4	Read/Write	0~255 (Sec)
825-072	Timing of tone detection before dialing For Ch1	0~255	10	Read/Write	0~255 (sec)
825-073	Timing of tone detection before dialing For Ch2	0~255	10	Read/Write	0~255 (sec)
825-074	Timing of tone detection before dialing For Ch3	0~255	10	Read/Write	0~255 (sec)
825-075	Timing of tone detection before dialing For Ch4	0~255	10	Read/Write	0~255 (sec)
825-076	Timing of tone detection before dialing For Ch5	0~255	10	Read/Write	0~255 (sec)
825-077	Call Restriction For Ch0	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only
825-078	Call Restriction for Ch1	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-079	Call Restriction for Ch2	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only
825-080	Call Restriction for Ch3	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only
825-081	Call Restriction for Ch4	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only
825-082	Call Restriction for Ch5	0~1	0: Outgoing/Incoming Call	Read/Write	0: Outgoing/Incoming Call, 1: Outgoing Call only
825-103	RX Gain in G3 Communication Mode	0~15	6 (-6dB)	Read/Write	0~-15dB
825-104	TX Gain in ISDN G3 Communication Mode	0~15	0	Read/Write	0~-15dB
825-115	PB Pause Time. PB (DTMF) Dial Inter-digit Pause Time.	0~255	102	Read/Write	0~255 (ms)
825-127	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 0.	8~15	8: 8dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-128	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 1.	8~15	8: 8dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-129	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 2.	8~15	8: 8dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-130	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 3.	8~15	15: 15dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-131	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 4.	8~15	8: 8dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-132	Attenuates analog transmission to attenuated Transmission Analog Output by modem for Channel 5.	8~15	15: 15dBm	Read/Write	8: 8dBm~15: 15dBm, step: -1dBm
825-133	Busy Tone detection (On/Off) setting	0~1	1: Detect Busy Tone	Read/Write	0: Do not detect Busy Tone, 1: Detect Busy Tone
825-134	Dial Tone detection (On/Off) setting	0~1	0: Do not detect dial tone	Read/Write	0: Do not detect dial tone, 1: Detect dial tone
825-158	No. of sheets transmitted in the transmission result report (Cannot be changed because of ROM data)	0~1	0	Read/Write	0: Total No. of sheets for resending in the same transmission 1: Total No. of sheets for each connection
825-159	ECM Capability (Auto Error Resending feature): A feature that starts resending automatically when an error that occurred during transmission has been repaired.	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
825-160	Time before the CNG Signal starts to be sent. Time that has elapsed after dialing has completed and when the initial CNG signal starts to be sent	20~140	60: 3000ms	Read/Write	20: 1 second~140: 7 seconds, 1: 50msec

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-161	CED Send Frequency: CED signal frequency.	0~1	1: 2100Hz	Read/Write	0: 1080Hz, 1: 2100Hz
825-162	T1 Timer Value at Receive mode	1~90	39sec	Read/Write	1~90 (sec)
825-163	Timer Value of no tone timing recommended in T.30	0~1	0: 75msec	Read/Write	0: 75msec, 1sec
825-164	FSK detection before image information is received (To be referred to at Non-ECM)	0~1	1: Detect	Read/Write	0: Do not detect, 1: Detect
825-165	FSK detection before image information is received	0~1	0: Do not detect	Read/Write	0: Do not detect, 1: Detect
825-166	G3M CSI Send CSI: Notification signal to the Sender of the ID Code registered at the Receiver.	0~1	0: Transmit	Read/Write	0: Transmit, 1: OFF
825-168	Sending of Local Name	0~1	1: ON	Read/Write	0: OFF, 1: ON
825-169	To determine resending of the Local Name	0~1	0: Do not resend	Read/Write	0: Do not resend, 1: Resend
825-170	ECM Frame Size (The frame is configured from the pixels which are divided into 8 bits for every 1mm)	0~1	0: 256bytes	Read/Write	0: 256 bytes, 1: 64 bytes
825-171	G3M ECM T5 Timer (2 channel common) Timer to the RNR Signal sent out when memory overflow etc. occurs at the Receiver, or when continuous receiving is not possible.	0~2	0: 1 (min)	Read/Write	0: 1 (min), 1: 3 (min), 2: No limit
825-173	Send Reference of RTN Command (Proportion) RTN: The message is not received properly, indicating that Training is necessary.	0~3	0: 5%	Read/Write	0: 5%, 1: 10%, 2: 15%, 3: 20%
825-174	Send Reference of RTN Command (No. of Continuous Lines)	0~3	2: 6line,	Read/Write	0: No limit, 1: 3line, 2: 6line, 3: 12line
825-175	No. of bytes of the DIS/DTC FIF Sending (DTC: Send command in response to DIS)	0~1	0: No limit	Read/Write	0: No limit, 1: 4bytes System
825-176	ECM Capability (Auto Error Resending feature): A feature to start resending when an error has been repaired during transmission. (For International communication)	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
825-177	CCITT Trellis Capability On/Off and types	0~2	2: V.17 or later	Read/Write	0: V.27 or later, 1: V.29 or later, 2: V.17 or later
825-178	CCITT Trellis Capability On/Off and types (Used in International Communication)	0~2	2: V.17 or later	Read/Write	0: V.27 or later, 1: V.29 or later, 2: V.17 or later
825-179	Ch0 ECM Block Synchronize	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec
825-180	ECM Block Synchronize for Ch1	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec,
825-181	ECM Block Synchronize for Ch2	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec,
825-182	ECM Block Synchronize for Ch3	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec,
825-183	ECM Block Synchronize for Ch4	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec
825-184	ECM Block Synchronize for Ch5	0~2	0: 200ms	Read/Write	0: 200 ms, 1: 500 ms, 2: 1 sec,

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-185	Ch0 ECM CTC Number	0~7	5	Read/Write	0: 000 ~ 7: 111
825-186	ECM CTC Number for Ch1	0~7	5	Read/Write	0: 000 ~ 7: 111
825-187	ECM CTC Number for Ch2	0~7	5	Read/Write	0: 000 ~ 7: 111
825-188	ECM CTC Number for Ch3	0~7	5	Read/Write	0: 000 ~ 7: 111
825-189	ECM CTC Number for Ch4	0~7	5	Read/Write	0: 000 ~ 7: 111
825-190	ECM CTC Number for Ch5	0~7	5	Read/Write	0: 000 ~ 7: 111
825-191	Ch0 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-192	Ch1 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-193	Ch2 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-194	Ch3 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-195	Ch4 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-196	Ch5 ECM CTC Speed Shift Down (CTC: Instructs to continue resending for the same block and to change the transmission speed where necessary, by the signal capable of transmission for every 3 times of resending)	0~1	1: Shift Down	Read/Write	0: Not, 1: Shift down
825-197	G3 DIS ignore for Channel 0 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-198	G3 DIS ignore for Channel 1 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once
825-199	G3 DIS ignore for Channel 2 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once
825-200	G3 DIS ignore for Channel 3 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once
825-201	G3 DIS ignore for Channel 4 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once
825-202	G3 DIS ignore for Channel 5 (No. of DIS ignored)	0~1	0: Ignore DIS	Read/Write	0: Ignore DIS 1: Ignore DIS once
825-203	Channel 0 G3 ECM EOR_Q Command (EOR: Stops resending by the signal capable of transmission for every 3 times of resending)	0~1	1: Continue	Read/Write	0: Stop, 1: Continue
825-209	G3 Modem Mode for Ch0	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-210	G3 Modem Mode For Ch1	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-211	G3 Modem Mode For Ch 2	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-212	G3 Modem Mode For Ch 3	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-213	G3 Modem Mode For Ch 4	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-214	G3 Modem Mode? For Ch 5	0~1	1: Auto	Read/Write	0: CCITT G3, 1: Auto
825-215	G3 RX Modem Speed Receive Transmission Speed Capability (Capability except V.34.) for Channel 0	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-216	G3 RX Modem Speed Receive Transmission Speed Capability (Capability besides V.34.) for Channel 1	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-217	G3 RX Modem Speed Receive Transmission Speed Capability (Capability besides V.34.) for Channel 2	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-218	G3 RX Modem Speed Receive Transmission Speed Capability (Capability besides V.34.) for Channel 3	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-219	G3 RX Modem Speed Receive Transmission Speed Capability (Capability besides V.34.) for Channel 4	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-220	G3 RX Modem Speed Receive Transmission Speed Capability (Capability besides V.34.) for Channel 5	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-221	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 0	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-222	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 1	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-223	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 2	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-224	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 3	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-225	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 4	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-226	G3 RX Modem Speed Receive Communication Speed Capability (V.34 Capability) for Channel 5	1~8	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-227	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 0	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-228	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 1	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-229	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 2	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-230	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 3	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-231	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 4	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-232	Maximum G3 TX Modem Speed (Send) (Capability except V.34) for Channel 5	1~8	14400bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-233	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 0 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-234	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 1 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-235	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 2 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-236	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 3 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-237	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 4 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-238	Maximum G3 TX Modem Speed (Send) (Capability except V.34.) for Channel 5 (To be referred to in overseas communication)	1~8	4800bps	Read/Write	1.~ 8, 14400 bps/V.17=1000, 12000 bps/V.17=0111, 9600 bps/V.17=0110, 7200 bps/V.17=0101, 9600 bps/V.29=0100, 7200 bps/V.29=0011, 4800 bps/V.27=0010, 2400 bps/V.27=0001
825-239	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 0	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-240	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 1	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-241	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 2	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-242	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 3	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-243	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 4	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-244	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 5	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-245	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 0 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-246	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 1 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-247	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 2 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-248	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 3 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-249	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 4 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-250	Maximum G3 TX Modem Speed (Send) (V.34 capability) for Channel 5 (To be referred to in overseas communication)	1~14	33600bps	Read/Write	1~14, 33600 bps=1110, 31200 bps=1101, 28800 bps=1100, 26400 bps=1011, 24000 bps=1010, 21600 bps=1001, 19200 bps=1000, 16800 bps=0111, 14400 bps=0110, 12000 bps=0101, 9600 bps=0100, 7200 bps=0011, 4800 bps=0010, 2400 bps=0001
825-251	G3 RX Cable Equalizer for Channel 0	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-252	G3 RX Cable Equalizer for Channel 1	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-253	G3 RX Cable Equalizer for Channel 2	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-254	G3 RX Cable Equalizer for Channel 3	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-255	G3 RX Cable Equalizer for Channel 4	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-256	G3 RX Cable Equalizer for Channel 5	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-257	Channel 0 G3 TSI/CIG Send TSI: Notification signal of the Sender ID by the signal for the CSI signal from the recipient. CIG: Indicates recognition information of the call station.	0~255	0: Auto	Read/Write	0~255, 0: Auto, 1: Forced transmit, 10: Not transmit
825-263	G3 TX Cable Equalizer for Channel 0	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-264	Implications of G3 TX Cable Equalizer for Channel 1 are different depending on machine model and configuration	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-265	Implications of G3 TX Cable Equalizer for Channel 2 are different depending on machine model and configuration	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-266	Implications of G3 TX Cable Equalizer for Channel 3 are different depending on machine model and configuration	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-267	Implications of G3 TX Cable Equalizer for Channel 4 are different depending on machine model and configuration	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-268	Implications of G3 TX Cable Equalizer for Channel 5 are different depending on machine model and configuration	0~3	1: 4dB	Read/Write	0: 0dB, 1: 4dB, 2: 8dB, 3: 12dB
825-274	Error line ends in error when it reaches the specified value. When errors [No. of Lines], error line will send RTN when 1/2 or more of the specified value is reached. Sends RTP when 1/4 or more of the specified value is reached. Sends MCF when less than 1/4 of the specified value is reached.	0~5	0: No limit	Read/Write	0: No limit, 1: 128line, 2: 256line, 3: 512line, 4: 1024line, 5: 2048line
825-275	Selection of error determination reference when RTN is sent.	0~1	0: Proportion	Read/Write	0: Proportion, 1: No. of lines
825-276	Tone Incoming Detection Level for Ch0	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-277	Tone Incoming Detection Level for Ch1	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-278	Tone Incoming Detection Level for Ch2	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-279	Tone Incoming Detection Level for Ch3	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-280	Tone Incoming Detection Level for Ch4	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-281	Tone Incoming Detection Level for Ch5	0~3	1: -43dBm	Read/Write	0: -48dBm, 1: -43dBm, 2: -38dBm, 3: -33dBm
825-285	Communication declaration paper size	0x0000~0x0200	0x014c 0726: A3, A4, B4, A4LEF, A5LEF, B5LEF, Letter, Legal, Ledger, Letter LEF	Read/Write	0x0000 0002: A3, 0x0000 0004: A4, 0x0000 0020: B4, 0x0000 0100: Letter, 0x0000 0200: Legal, 0x0000 0400: Ledger, 0x0000 0800: 8.5x13 inch, 0x0004 0000: A4LEF, 0x0008 0000: A5LEF, 0x0040 0000: B5LEF, 0x0100 0000: Letter LEF, 0x0200 0000: Letter Half LEF
825-322	Set the enabling/disabling of the capability regarding the V34 modulation method.	0~1	1: Enable	Read/Write	0: Disable, 1: Enable
825-421	CED Send Start Time	0~3	2: 1.0sec	Read/Write	0: 2.0sec, 1: 0.2sec, 2: 1.0sec, 3: 2.3sec

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-422	Send Mode depending on the availability of Outside Line Recognition No. (Line 0)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-423	Send Mode depending on the availability of Outside Line Recognition No. (Line 1)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-424	Send Mode depending on the availability of Outside Line Recognition No. (Line 2)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-425	Send Mode depending on the availability of Outside Line Recognition No. (Line 3)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-426	Send Mode depending on the availability of Outside Line Recognition No. (Line 4)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-427	Send Mode depending on the availability of Outside Line Recognition No. (Line 5)	0~2	0: Do not set (Follow machine settings)	Read/Write	0: Do not set (Follow machine settings), 1: V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; Non-V.34 communication if it is different. 2: Non-V.34 communication if the first digit at the beginning of the outgoing dial data is the same as external identification number; V.34 communication if it is different.
825-428	Outside Line Recognition No. (Line 0)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-429	Outside Line Recognition No. (Line 1)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-430	Outside Line Recognition No. (Line 2)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-431	Outside Line Recognition No. (Line 3)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-432	Outside Line Recognition No. (Line 4)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-433	Outside Line Recognition No. (Line 5)	0~11	0	Read/Write	0: "0" ~ 9: "9" 10: "#*" 11: "*"
825-434	Handset Control in Sleep Mode	0~1	1	Read/Write	0: Not connected (no tone), 1: Connected (tone)
825-444	Ringer Threshold for CH1	0~1	0	Read/Write	0: 11~22Vms, 1: 17~33Vms. This is usually adjusted in the hardware to "11~22Vms"

Table 11 NVM 825 FAX Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
825-445	Ringer Threshold for CH2	0~1	0	Read/Write	0: 11~22Vms, 1: 17~33Vms. This is usually adjusted in the hardware to "11~22Vms"
825-446	Ringer Threshold for CH4	0~1	0	Read/Write	0: 11~22Vms, 1: 17~33Vms. This is usually adjusted in the hardware to "11~22Vms"

Chain 830-xxx iFAX Service

Table 12 iFAX Service

Chain-Link	NVM Name	PSW Display	Setup Range	Initial Value	Read/Write	Description
830-007	POP User Name (1)	POP User Name		NULL	Read/Write	ASCII 64 Characters
830-009	POP User Name (2)	POP User Name 2		NULL	Read/Write	ASCII 64 Characters
830-011	POP User Name (3)	POP User Name 3		NULL	Read/Write	ASCII 64 Characters
830-013	POP User Name (4)	POP User Name 4		NULL	Read/Write	ASCII 64 Characters
830-015	POP User Name (5)	POP User Name 5		NULL	Read/Write	ASCII 64 Characters
830-022	SMTP/POP3 Receive Start Up	SMTP / POP3 Receiving Start	0~1	0: SMTP Receive	Read/Write	0: "SMTP Receive", 1: "POP Receive"
830-023	POP Receive Interval	POP Receiving Interval	1~120	10min	Read/Write	1~120min
830-024	Deletion after POP is obtained	Delete after POP Receiving	0~1	0: Delete	Read/Write	1: Do not delete, 0: Delete
830-025	Print Control of Mail Header and Content in iFAX Receive Print	Target of Mail Header Printing	0~3	1: Print basic headers and contents	Read/Write	: Print all headers and contents, 1: Print basic headers and contents, 2: Do not print headers or contents, 3: Auto print according content
830-026	Printing of error mail	Error Mail Print Enable	0~1	1: Always print headers and contents	Read/Write	0: Do not print, 1: Always print headers and contents
830-027	Sending of error notification mail	Error Mail Send Enable	0~1	0: Do not send	Read/Write	1: Send, 0: Do not send
830-030	Mail Receive Limitation	Mail Receiving Limit Enable	0~2	0: Do not limit	Read/Write	0: Do not limit, 1: Set domains to allow, 2: Set domains to prohibit
830-081	Fax Transmission Limitation by Address Book (Speed Dial)	FAX Forward Limit Enable by Address Note	0~1	0: Do not limit	Read/Write	1: Limit, 0: Do not limit
830-083	SMTP Send Start Up	SMTP Send Enable	0~1	1: Start	Read/Write	0: Stop 1: Start
830-084	Profile selection at Broadcast	Profile of Broadcast	0~2	0:TIFF-S	Read/Write	0: TIFF-S, 1: TIFF-F, 2: TIFF-J
830-085	Send Mode selection at Broadcast	Sending Mode of Broadcast	0~2	0: G3 Auto	Read/Write	0: G3 Auto, 1: International Communication, 2: G4 Auto
830-086	Mail Segmentation Send Threshold - B And W2 Value	Mail Send Page Segmentation Threshold-B And W2Bit	0~999	10	Read/Write	0~999 pages (No limit when it is 0)
830-087	Broadcast Delivery Confirmation Selection	Delivery check when broadcast trans	0~1	0: OFF	Read/Write	0: OFF, 1: ON
830-088	Delivery Confirmation Method	Delivery check system	0~1	1: MDN	Read/Write	0: DNS, 1: MDN
830-090	Upper Limit Size for Fax Transmission	Fax Relay Limit Size	0~65535	8192	Read/Write	0~65535KB (0: No limit)
830-091	POP Authentication (1)	POP Certification (1)	0~1	0	Read/Write	0: Panel authentication, 1: APOP authentication
830-092	POP Server Port No.	POP Server Port Number	1~65535	110	Read/Write	1~65535
830-103	Print Delivery Confirmation Mail	DNS Return Mail Print	0~2	2	Read/Write	0: Do not print, 1: Always print headers and contents, 2: Print only when fail

Table 12 iFAX Service

Chain-Link	NVM Name	PSW Display	Setup Range	Initial Value	Read/Write	Description
830-109	Reply MDN Request	Reply MDN Mail	0~1	1	Read/Write	0: Never reply, 1: Always reply
830-116	Ifax Sending Path Specification	IFAX Neto Config Route	1~2	1	Read/Write	1: By MTA, 2: By P2P, 3: By user specification (not immediat
830-118	P2P Ifax Retry Attempts	IFAX Neto Config Retry Coun	0~5	1	Read/Write	0: Do not retry, 1-5: Retry attempts
830-119	P2P Ifax Retry Interval (Unit: Minutes)	IFAX Neto Config Retry Interval	0~60	1	Read/Write	0: Immediate retry, 1-60: Interval (Minutes)
830-120	Print Mode when Receiving IFAX	IFAX Print Mode	0, 1	0: Auto distrib- ute	Read/Write	0: Auto distribute, 1: Print as IFAX data

Chain 850-xxx EP-SV

Table 13 EP-SV

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
850-001	EP-SV, EP Accessory Connection	0~1	0: OFF	Read/Write	0: OFF, 1: ON
850-002	Telephone line connection	0~1	0: OFF	Read/Write	0: OFF, 1: ON
850-003	EP Data Send Type (This data is the same as that of EP-DX)	0~2	0: Send to EP-SV	Read/Write	0: Send to EP-SV, 1: Send to EP-DX, 2: Send to both
850-004	Enable Display at bundling (This data is the same as that of EP-DX)	0~1	0: Prohibit	Read/Write	0: Prohibit, 1: Implement
850-007	Types of accessories	0~12	-	Read/Write	0: Off, 1: CopyLyzer (Addition), 2: CopyLyzer (Subtraction), 3: Dispenser, 4: Coin Kit5, 5: Combination of CopyLyzer and Copy Dispenser, 6: Combination of CopyLyzer and Coin Kit 5, 7: Combination of Dispenser and Coin Kit 5, 10: IC Card Gate
850-009	Print Control Function	0~1	0: Do not control operation	Read/Write	0: Do not control operation, 1: Control operation
850-010	Interrupt operation when connected to subtraction type	0~1	1: Interrupt Off	Read/Write	0: Interrupt On, 1: Interrupt Off
850-011	CRU Replacement Notification Enable/Disable	0~1	0: Prohibit	Read/Write	0: Prohibit, 1: Permit
850-012	CRU Warning Notification Enable/Disable	0~1	0: Prohibit	Read/Write	0: Prohibit, 1: Permit
850-015	Scan/Fax/I-Fax Control Feature	0~1	0: Do not control operation	Read/Write	0: Do not control operation, 1: Control operation
850-016	Operation for Disable Receive when connected to subtraction type	0~1	0: Cancel Job (Cancel)	Read/Write	0: Cancel Job (Cancel), 1: Pause Job
850-017	Use Card Number in Print Control	0~1	1: Use Card No.	Read/Write	0: Do not use Card No., 1: Use Card No.
850-018	Paper feeding mode for 2 Sided Printing when connected to the conventional subtraction type accessory	0~1	1: One sheet mode	Read/Write	0: Clear one sheet mode and speed up, 1: One sheet mode

Chain 860-xxx EP-DX

Table 14 EP-DX

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
860-011	Remote Center Call Feature OFF/ON	1	1: ON	Read/Write	0: OFF, 1: ON
860-012	Alert Call Feature ON/OFF	1	0: OFF	Read/Write	0: OFF, 1: ON
860-032	No. of CRU Replacements	0-0xFFFFFFFF	0	Read/Write	0-0xFFFFFFFF

Chain 870-xxx Chain 900-xxx Diag

Table 15 Diagnostics

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
870-010	XERO: CRU #1 Wear Reduction Current Value	0-99999999	-	Read	-
870-011	XERO: CRU #2 Wear Reduction Current Value	0-99999999	-	Read	-
870-012	XERO: CRU #3 Wear Reduction Current Value	0-99999999	-	Read	-
870-013	XERO: CRU #4 Wear Reduction Current Value	0-99999999	-	Read	-
870-014	XERO: #1CRU Warning Current Value	0-99999999	-	Read	-
870-015	XERO: #1Drum Total Cycle Current Value	0-99999999	-	Read	-
870-016	XERO: #2 Drum Total Cycle Current Value	0-99999999	-	Read	-
870-017	XERO: #3 Drum Total Cycle Current Value	0-99999999	-	Read	-
870-018	XERO: #4 Drum Total Cycle Current Value	0-99999999	-	Read	-
870-019	XERO: #1 Drum DC Cycle Current Value	0-99999999	-	Read	-
870-020	XERO: #2Drum DC Cycle Current Value	0-99999999	-	Read	-
870-021	XERO: #3 Drum DC Cycle Current Value	0-99999999	-	Read	-
870-022	XERO: #4 Drum DC Cycle Current Value	0-99999999	-	Read	-
870-023	XERO: #1 Drum AC Cycle Current Value	0-99999999	-	Read	-
870-024	XERO: #2 Drum AC Cycle Current Value	0-99999999	-	Read	-
870-025	XERO: #3 Drum AC Cycle Current Value	0-99999999	-	Read	-
870-026	XERO: #4 Drum AC Cycle Current Value	0-99999999	-	Read	-

Table 15 Diagnostics

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
870-027	Xfer: IBT Belt (IMPS)	0~99999999	-	Read	-
870-028	Xfer: IBT Belt (CYCLE)	0~99999999	-	Read	-
870-029	Xfer: 1st BTR	0~99999999	-	Read	-
870-030	Xfer: Backup Roll	0~99999999	-	Read	-
870-031	Xfer: 2nd BTR Unit	0~99999999	-	Read	-
870-032	Xfer: Bearing BTR	0~99999999	-	Read	-
870-033	Xfer: Trim within Transfer Module	0~99999999	-	Read	-
870-034	Xfer: Belt Cleaner Blade	0~99999999	-	Read	-
870-035	Xfer: Belt Cleaner Film Seal	0~99999999	-	Read	-
870-036	PH: No. of 1 Tray Feed	0~99999999	-	Read	-
870-037	PH: No. of MSI Feed	0~99999999	-	Read	-
870-038	PH: No. of 3TM 2Tray Feed	0~99999999	-	Read	-
870-039	PH: No. of 3TM 3Tray Feed	0~99999999	-	Read	-
870-040	PH: No. of 3TM 4Tray Feed	0~99999999	-	Read	-
870-041	PH: No. of 1TM 2Tray Feed	0~99999999	-	Read	-
870-042	PH: No. of TTM 2Tray Feed	0~99999999	-	Read	-
870-043	PH: No. of TTM 3Tray Feed	0~99999999	-	Read	-
870-044	PH: No. of TTM 4Tray Feed	0~99999999	-	Read	-
870-045	Fuser, NOHAD: PV (CV) Counter for checking the replacement Life of the Filter used for ROS contamination	0~99999999	-	Read	-
870-200	Input Tray Settings	0~9	1: Tray 1	Read/Write	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: Tray 5, 6: SMH, 7: HCF1, 8: HCF2, 9: Interposer
870-201	Output Tray Settings	0~255	1: Main Tray	Read/Write	0: Auto, 1~255: Bin No
870-202	Copies (Output Sheet Count) Settings	1~65535	1: 1 set	Read/Write	1~65535 sets
870-203	1 Sided Output/2 Sided Output Settings	0~2	0: 1 Sided	Read/Write	0: 1 Sided, 1: 2 Sided (Head to Head), 2: 2 Sided (Head to Bottom)
870-204	Paper Type Settings	0~66	0: Plain Paper	Read/Write	0: Plain Paper, 1: Recycled Paper, 2: Bond paper, 3: Lightweight, 4: Heavyweight 1, 5: Heavyweight 2, 6: Heavyweight 1 Side 2, 7: Heavyweight 2 Side 2, 8: Super Heavyweight, 9: Super Heavyweight Side 2, 10: Transparency, 11: Tacked Paper, 12: Labels, 13~31: Plain Paper A~S, 32: Heavyweight 1A, 33: Heavyweight 1B, 34: Heavyweight 1S, 35: Heavyweight 1 (Side 2) A, 36: Heavyweight 1 (Side 2) B, 37: Heavyweight 1 (Side 2) S, 38: Heavyweight 2A, 39: Heavyweight 2B, 40: Heavyweight 2S, 41: Heavyweight 2 (Side 2) A, 42: Heavyweight 2 (Side 2) B, 43: Heavyweight 2 (Side 2) S, 44: Heavyweight 1C, 45: Heavyweight 1C (Side 2), 46: Heavyweight 2C, 47: Heavyweight 2C (Side 2), 48: Heavyweight 2D, 49: Heavyweight 2D (Side 2), 50: Coated Paper 1, 51: Coated Paper 1 (Side 2), 52: Coated Paper 2, 53: Coated Paper 2 (Side 2), 54: Coated Paper 1 Special (Special Glossy Paper), 55~59: Custom Paper 1~5, 60: Tracing Paper, 61: Backing Paper, 62: Tab Paper Heavyweight 1, 63: Tab Paper Heavyweight 2, 64: Labels 1, 65: Labels 2, 66: Perforated (Punched)
870-205	Color Mode Settings	0~3	0: 4 Colors	Read/Write	0: 4 Colors, 1: 3 Colors, 2: Mono Color, 3: BW
870-206	Single Color Settings	0~6	0: Black	Read/Write	0: Black, 1: Yellow, 2: Magenta, 3: Cyan, 4: Red, 5: Green, 6: Blue

Table 15 Diagnostics

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
870-207	Screen Settings	0~10	0: Text	Read/Write	0: Text, 1: Photo, 2: Binary ED, 3: 24ED, 4: 300DACS, 5: 600, 6: 300, 7: 200C, 8: 200R, 9: 150, 10: Fine
870-208	LUT Settings	0~3	3: IOT And Ctrack On	Read/Write	0: All Off, 1: IOT On, 2: Ctrack On, 3: IOT And Ctrack On
870-209	Density Settings	0~100	0: 0%	Read/Write	0~100%
870-210	Resolution Settings	0~4	0: 1200x1200	Read/Write	0: 1200x1200, 1: 1200x600, 2: 600x600, 3: 300x300
870-211	Paper Size (Standard) Settings	0~50	5: A4LEF	Read/Write	0: A6SEF, 1: A6LEF, 2: A5SEF, 3: A5LEF, 4: A4SEF, 5: A4LEF, 6: A3SEF, 7: B6SEF, 8: B6LEF, 9: B5SEF, 10: B5LEF, 11: B4SEF, 12: 5.5x8.5 (Statement) SEF, 13: 5.5x8.5 (Statement) LEF, 14: 7.25x10.5 (Executive) SEF, 15: 7.25x10.5 (Executive) LEF, 16: 8x10SEF, 17: 8x10LEF, 18: LetterSEF, 19: LetterLEF, 20: 8.46x12.4 (Spanish) SEF, 21: 8.5x13 (Legal13) SEF, 22: 8.5x14 (Legal14) SEF, 23: 11x15SEF, 24: 11x17 (Ledger) SEF, 25: A4CoverLEF, 26: 9x11 (LetterCover) LEF, 27: 12.0x18.0SEF, 28: 12.6x17.7 (SRA3) SEF, 29: 12.6x19.2SEF, 30: 13x18SEF, 31: 13x19SEF, 32: 16K (TFX) SEF, 33: 16K (TFX) LEF, 34: 8K (TFX) SEF, 35: 16K (GCO) SEF, 36: 16K (GCO) LEF, 37: 8K (GCO) SEF, 38: Official Postcard SEF, 39: Official Postcard LEF, 40: Return Postcard SEF, 41: PostCard (4x6) SEF, 42: PostCard (4x6) LEF, 43: PostCard (5x7) SEF, 44: Envelope SEF, 45: Envelope LEF, 46: Com10LEF, 47: MonarchLEF, 48: DL LEF, 49: Envelope SEF, 50: Envelope LEF
900-001~999	Tag 1V~Tag 999V	0~1	0	Read/Write	Tag Information 1V ~999V[0: OFF, 1: ON]

Table 1 Job Flow Service

Chain-Link	NVM Name	Setup Range	Initial Value	Read/Write	Description
880-001	Job Flow Sheet Pool Server Usage	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
880-002	Port Number	1~65535	80	Read/Write	1~65535
880-003	Connection Schema	1, 2	1: HTTP	Read/Write	1:HTTP 2:HTTPS
880-004	Device Specific Authentication Information Usage	0, 1	0: Disable	Read/Write	0: Disable, 1: Enable
880-005	Time-Out Time	1~300	60	Read/Write	1~300
880-006	Job Flow Sheet Repository	0, 1	0: Device	Read/Write	0: Device, 1: Pool Server
880-007	Job Flow Sheet Search Keyword 1		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-008	Job Flow Sheet Search Keyword 2		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-009	Job Flow Sheet Search Keyword 3		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-010	Job Flow Sheet Search Keyword 4		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-011	Job Flow Sheet Search Keyword 5		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-012	Job Flow Sheet Search Keyword 6		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-013	Job Flow Sheet Search Keyword 7		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-014	Job Flow Sheet Search Keyword 8		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-015	Job Flow Sheet Search Keyword 9		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-016	Job Flow Sheet Search Keyword 10		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-017	Job Flow Sheet Search Keyword 11		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-018	Job Flow Sheet Search Keyword 12		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-019	Job Flow Sheet Search Keyword 13		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-020	Job Flow Sheet Search Keyword 14		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-021	Job Flow Sheet Search Keyword 15		NULL	Read/Write	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)

Analog Monitor

Table 1 Analog Monitor Code List

Chain-Link	Nvm Name	PSW Display	Function Description
010-200	Heat Roll NC Sensor: Inf		NC Sensor Detection AD Value at the center of Heat Roll
010-201	Heat Roll NC Sensor: temp		NC Sensor Compensation AD Value at the center of Heat Roll
010-202	Heat Roll NC Sensor: Diff		NC Sensor Difference AD Value at the center of Heat Roll (Compensation AD Value - Detection AD Value) x 14.333
010-202	Heat Roll STS		Temperature AD Value at Heat Roll Front
071-200	Tray1 Size Switch	Tray2 Size Switch	Displays Tray 1 Paper Size AD Value.
072-200	Tray2 Size Switch(2TM)	Tray2 Size Switch	Displays Tray 2 Paper Size AD Value.
072-201	Tray2 Size Switch(TTM)	Tray2 Size Switch	Displays Tray 2 Paper Size AD Value.
073-200	Tray3 Size Switch(2TM)	Tray3 Size Switch	Displays Tray 3 Paper Size AD Value.
073-201	Tray3 Size Switch(TTM)	Tray3 Size Switch	Displays Tray 3 Paper Size AD Value.
092-200	ADC Sensor	ADC Sensor	Monitors reflective ratio on the belt of ADC_SNRS at regular intervals.
092-201	TEMP Sensor	ENV TEMP Sensor	Monitors temperature sensor at regular intervals.
092-202	HUM Sensor	ENV HUM Sensor	Monitors temperature sensor at regular intervals.

Serial Number/Billing Meter Data

Purpose

Displays the Serial Number, Product Number, and Billing Data.1

Procedure

1. Enter UI Diagnostic Mode.
2. Select **Adjustment/Others**.
3. Select **Machine ID/Billing Data**.

NOTE: Serial Numbers, the Product Number, and Billing Data is displayed for IOT, Sys1, and Sys2.

CAUTION

Failure to perform GP 4 Replacing Billing PWBs, if the MCU PWB, or the MCU PWB EPROM, or the ESS PWB or the ESS PWB EPROM is replaced could result in NVM corruption and disabling the machine. Refer to REP 9.1.1 MCU PWB or REP 9.1.2 MCU PWB EPROM or REP 9.2.1 ESS PWB or REP 9.2.2 ESS PWB EPROM before installing a new MCU PWB, MCU PWB EPROM, ESS PWB, or ESS PWB EPROM.

NOTE: GP 4 Replacing Billing PWBs, procedure is used to serialize components and load billing data on the new MCU PWB, or MCU PWB EPROM, or ESS PWB, or ESS PWB EPROM.

NOTE: Machine Serial Number Plate is located on side frame below rear yellow Fuser mounting screw.

Printing HFSI

Procedure

1. Enter UI Diagnostic Mode).
2. Select **NVM Read/Write**.
3. Refer to Table 1 and enter a counter number for any High Frequency Service Item (HFSI) counters to be checked.

Table 1 High Frequency Service Items

Counter	Name	Threshold	Service Action to be performed
954-800 Reset only	Tray 1 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-801	Tray 2 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-802	Tray 3 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-803	MSI Feed Roll / Retard Pad	50K	Replace the Feed Roll, Retard Pad
954-824	IBT Unit	480K	Information not available at this time
954-825	IBT Cleaner Unit	100K	Information not available at this time
954-826	BTR2 Unit	300K	Replace the Bias Transfer Roll.
954-830	Developer time K	420K	Replace K Developer Housing.
954-831	Developer time Y	420K	Replace Y Developer Housing.
954-832	Developer time M	420K	Replace M Developer Housing.
954-833	Developer time C	420K	Replace C Developer Housing.
955-837	Xerographic Module	10M	Replace the Xero Module
954-842	Fuser Assembly	10M	Replace the Fuser Assembly

Initialize HFSI Counters

Purpose

Initialize the HFSI Counter.

Procedure

Reading and resetting HFSI

1. Enter UI Diagnostic Mode.

2. Select **Adjustment/Other**.
3. Select Initialize HFSI Counter.
4. Reset Correct Value
 - a. Enter the Chain-Link No.
 - b. Select Reset Correct Value. Diagnostics routine completed will be displayed

NOTE: Diagnostics routine completed will be displayed. The HFSI Counter is reset.

HFSI

Table 1 IOT HFSI

Chain-Link	Name	Initial Value	Value	1Count	Remarks
954-807	Last 2Digits of Fuser discharging Number	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-807	5th&6thDigits of Fuser discharging Number	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-807	3rd&4thDigits of Fuser discharging Number	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-807	First 2Digits of Fuser discharging Number	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-800	Tray1 Last 2Digits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-800	Tray1 5th&6thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-800	Tray1 3rd&4thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-800	Tray1 First 2Digits of Feed Capacity (8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-801	Tray2 Last 2Digits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-801	Tray2 5th&6thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-801	Tray2 3rd&4thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-801	Tray2 First 2Digits of Feed Capacity (8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-802	Tray3 Last 2Digits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-802	Tray3 5th&6thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-802	Tray3 3rd&4thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-802	Tray3 First 2Digits of Feed Capacity (8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-804	HCF Last 2Digits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)

Table 1 IOT HFSI

Chain-Link	Name	Initial Value	Value	1Count	Remarks
954-804	HCF 5th&6thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-804	HCF 3rd&4thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-804	HCF First 2Digits of Feed Capacity (8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-805	MSI Last 2Digits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-805	MSI 5th&6thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-805	MSI 3rd&4thDigits of Feed Capacity (8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-805	MSI First 2Digits of Feed Capacity (8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-808	Last 2Digits of the number of Sheets Reaching BIAS transfer Roll(8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-808	5th&6thDigits of the number of Sheets Reaching BIAS transfer Roll(8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-808	3rd&4thDigits of the number of Sheets Reaching BIAS transfer Roll(8 Digits)	0	0~99	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)
954-808	First 2Digits of the number of Sheets Reaching BIAS transfer Roll(8 Digits)	0	0~3	1	Only 0 clearance is possible in the write mode.('0 clearance' means all bytes changes 0 at the same time.)

Table 2 IIT HFSI

Chain-Link	Name	Initial Value	Setting Range	Count Condition	Remarks
956-802	IIT Scan	0	0~6,881,175	Scan Count (including pre-Scan) Counts up with each scan. HFSI to Scan count after clearing HFSI Counter Recycle to Total Scan count without clearing	1 time increments Max count value=above 6,000,000 times Only count Platen Scans, not CVT Scans.
956-803	Lamp ON Time	0	0~7,864,200	Lamp ON Time Starts timing when the lamp turns on. Stops timing when the lamp turns off. Writes to the NVM during CRG Initialize. HFSI to Lamp ON time after clearing HFSI Counter Recycle to Total Lamp ON time without clearing	Lamp Life 2000 hours 1 time increments Max count value=7,200,000sec and above Times the total duration when the lamp is on (including AGOC, Lamp Check).
956-804	Lamp ON Count	0	0~6,881,175	Lamp ON count after clearing HFSI Counter Counts up when the lamp turns on. Writes to the NVM during CRG Initialize.	Lamp Life 6,000,000 times 1 time increments Max count value=above 6,000,000 times Counts the no. of times the lamp turns on (including AGOC, Lamp Check).
956-808	Platen Open/Close Count (Platen models)	0	0~1,966,050	Counts up when the Angle Sensor is forced fully open.	1 time increments Max count value=above 1,000,000 times
955-806	Document Feed (CVT, DADF models)	0	0~5,000,000	Counts up when the Feed Sensor turns on. HFSI to Document Feed count after clearing HFSI Counter Recycle to Total Document Feed count without clearing	No. of sheets fed from the CVT Tray The NVM is controlled by the CVT.
955-807	Document Feed Simp (CVT, DADF models)	0	0~5,000,000	Counts the no. of document sheets fed in Simplex mode.	The NVM is controlled by the CVT. * Life is common to 955-808.
955-808	Document Feed Dup (CVT, DADF models)	0	0~5,000,000	Counts the no. of document pages fed in Duplex mode. Counts up when Invert Sensor turns off during Duplex transport.	The NVM is controlled by the CVT. * Life is common to 955-807.
955-810	Platen Open/Close Count (CVT, DADF models)	0	0~1,000,000	Counts up when the Platen Interlock is open.	Belt/CVT judgement is processed in the IISS. The NVM is controlled by the CVT.
955-829	Invert Solenoid ON Count	0	0~5,000,000	Counts up when the Invert Solenoid turns on. HFSI to Invert Solenoid ON count after clearing the counter Recycle to Total Invert Solenoid ON count without clearing	CVT(PF2) The NVM is controlled by the CVT.

Adjust Toner Density

Purpose

To perform manual adjustment for toner density.

Procedure

1. Select **Maintenance/Diagnostics**.
2. Select **Max Setup**.
3. Select **Adjust Toner Density**.
4. The following current value data will be displayed at the current value area.
 - a. ATC Target Value: Numeric display.
 - b. ATC Measured: Numeric display.
5. Select and adjustment value by entering a quantity between -99 and +99.
6. Select **Start**.
7. Exit Diag. and check the copy quality.
8. Repeat step 4 to 9 until copy quality meet with specification or customer desired level.

MSI Guide Adjustment

Purpose

This guide adjustment item is provided for the following purposes:

- To check that size detection of the MSI Guide width detection is properly performed.
- To set the sensor output values for the maximum and minimum positions for the MSI Guide using NVM.
- To display the detected size in the width direction of the MSI Guide.

Procedure

1. Select **Maintenance/Diagnostics**.
2. Select **Adjustment/Others**.
3. Select **MSI Guide Adjustment**.
4. Set the MPT Guide on the machine at the minimum position.
5. Select **Minimum Size Position**, then push Start button.
6. Result appears in Result column.
When "OK": The minimum position is set by the NVM.
When NG: Repeat the procedure.
7. Set the MSI Guide on the machine at the maximum position.
8. Select **Maximum Position**.
9. Result appears in Result column.
When "OK": Set the value of the maximum position by the NVM.
When NG: Repeat the procedure.
10. Select Close].

Initialize NVM

Purpose

This procedure may be needed when the machine is unrecoverable, including problems such as producing blank copies/prints, continuous system faults, etc. It is also required as part of the software upgrade process.

Fax configured machine only

NOTE: The fax module must be started up (the fax icon must be displayed) before the initialization is performed.

If the initialization is performed with the fax module off, the initialization will not finish.

(The fax module requires powering off then on.)

Initial Actions

- Disconnect any Foreign Interface devices.
- Obtain all of the following information:
 - NVM value factory setting report Log Book Storage (typically it is located in the Inner Cover pocket)
 - Any customer setting Auditron account from the system administrator
 - Any setting changes (specifically NVM settings) shown on the machine's service log.
 - Any customer settings in the Tools mode.

Procedure

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - b. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).
2. Select **Maintenance/Diagnostics**.
3. Select **Initialize NVM**.
4. Select the desired item, then press the Start button.

5. After initialization is complete, use the data accumulated in **Initial Actions** to restore the machine to its previous configuration.

Table 1 NVM Initialization

Name	Description
IOT	<p>The following NVM locations will be initialized:</p> <ul style="list-style-type: none">• Chain - Link 740 - 001, 022 through 31, 062, 090• Chain - Link 741 - 001• Chain - Link 742 - 001 through 012, 015, 018, 027 through 030, 075, 083, 084, 086, 098 through 101• Chain - Link 744 - 005, 006, 010, 043, 045, 046, 061, 065, 077, 078, 080, 081, 086, 133 through 135, 180 through 184, 220, 301 through 306• Chain - Link 746 - 500, 502 through 516• Chain - Link 749 - 001 through 003, 006, 007, 009 through 016, 516, 521 through 524, 527• Chain - Link 751 - 010, 011, 034 through 037, 511, 560, 631, 699, 701, 703, 710, 718 through 748, 750, 752, 754, 756, 758, 760, 762, 764 through 792, 794, 796, 798, 800, 802, 804, 806, 808 through 836, 838, 840, 842, 844, 846, 848 through 850, 881 through 889• Chain - Link 752 - 003, 509, 893 through 895• Chain - Link 753 - 003, 008, 009, 612, 619, 645, 705, 716, 717, 724 through 726, 729, 731• Chain - Link 760 - 001 through 003, 005 through 012, 016 through 029, 031 through 040• Chain - Link 764 - 001, 002, 005, 100 through 104, 112
IIT/IPS	<p>The following NVM locations will be initialized:</p> <ul style="list-style-type: none">• Chain - Link 710 - 501, 550, 551, 554 through 568, 600 through 612• Chain - Link 715 - 013, 017, 018, 023 through 027, 050 through 096, 102 through 108, 110 through 113, 201, 241 through 244, 280 through 293, 299 through 311, 344 through 349, 362, 363, 418, 550 through 555, 560, 600 through 622, 630 through 649, 660 through 664, 668, 669, 680 through 691, 702 through 705, 720 through 726, 780 through 791• Chain - Link 716 - 001 through 030, 032, 033, 035, 037 through 047, 050 through 064, 070 through 081, 100 through 102, 110, 112, 113, 120 through 122, 126 through 128• Chain - Link 717 - 001 through 015

Table 1 NVM Initialization

Name	Description
SYS-System	<p>The following NVM locations will be initialized:</p> <ul style="list-style-type: none"> • Chain - Link 700 - 071, 075, 076, 078, 080 through 088, 127, 128, 368, 389, 390, 396, 398, 410 through 412 • Chain - Link 780 - 072, 073, 141, 145 • Chain - Link 790 - 003 • Chain - Link 800 - 018 • Chain - Link 810 - 130 • Chain - Link 820 - 003, 024, 026, 038 through 047, 052 through 054, 060 through 119, 121 • Chain - Link 823 - 042 through 047 • Chain - Link 830 - 081, 090 • Chain - Link 850 - 001 through 004, 007, 009 through 012, 015 through 018 • Chain - Link 870 - 010 through 045
SYS-User	<p>All user settable NVM locations in the following chains will be reset:</p> <ul style="list-style-type: none"> • Chain - Link 700 - 071, 075, 076, 078, 080 through 088, 368, 389, 390

Component Control

Purpose

The purpose of the Component Control is to display the logic state of input signals and to energize output components.

NOTE: Refer to Table 1, Table 3, Table 5 for a list of all Input Components listed by Chain/Link ID number. Refer to Table 2, Table 4, Table 6 for a list of all Output Components listed by Chain/Link ID number.

Procedure

1. Enter UI Diagnostic Mode.
2. Select **Maintenance/Diagnostics**.
3. Select **IO Check**.
4. Select **Component Control**.
5. Input Enter number, then select **Chain Link**.
 - In case of INPUT Component:
 - Indicates current status in Status column.
 - Count up (+1) when switching. (High to Low, Low to High)
 - In case of OUTPUT Component:
 - Activates component
6. Press **Stop** button after confirming.

Stacking Component Codes

NOTE: Some components cannot be energized at the same time as another component. If you activate such a combination of components, the first component switched on will be automatically switched off.

1. When perform multiple component checking. input new Chain-Link number after one (or several) component(s) is (are) in operating.

NOTE: Only latest Chain-Link number indicates.

2. When confirm the status of another component still in progress, select Enter Number then input Chain-Link number of applicable component.
3. Select Stop key after confirming.
Stop operation of component indicated on screen.

NOTE: There are no Cyclic Component in below category:

- IIT Input Component.
- IIT Output Component.
- IOT Input Component.

Table 1 Input Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Remarks
012-110	Registration Clutch ON	H	IOT Regi Clutch ON	
012-111	IOT Exit Sensor	H	with paper	
012-150	Compile Exit Sensor	H	with paper	
012-151	Compile Tray No Paper Sensor	H	with paper	
012-190	H-Transport Ent. Sensor	H	with paper	
012-191	H-Transport Exit Sensor	H	with paper	
012-220	Front Tamper Home Sensor	H	other than home position	
012-221	Rear Tamper Home Sensor	H	other than home position	
012-240	Stapler Move Home Sensor	H	other than home position	
012-241	Stapler Move Position Sensor	H	other than home position	
012-242	Low Staple Sensor	H	without pin	
012-243	Self Priming Sensor	H	Not Ready	
012-244	Staple Home Sensor	H	other than home position	
012-250	Eject Clamp Home Sensor	H	other than home position	
012-251	Set Clamp Home Sensor	H	other than home position	
012-260	Upper Limit Sensor	H	upper limit position	
012-262	Stacker No Paper Sensor	H	without finisher	
012-267	Stacker Height Sensor	H	With Paper	
012-268	Stacker Stock A Sensor	H	Cover Position	
012-269	Stacker Stock B Sensor	H	Cover Position	
012-280	Compiler Cover Safety Switch	H	Compiler Upper Chute Open	
012-301	Top Cover Switch	H	Top Cover is closed	
012-302	Finisher Front Cover Switch	H	Finisher Front Cover is closed	
012-303	H-Transport Interlock Sensor	H	H-Transport is closed	
042-200	Belt Home Position Sensor	L	Same as Name	-
047-200	FACE UP TRAY DETECTED	L	Detected	EXIT
047-201	OCT2 DETECTED	L	Detected	EXIT
047-205	OCT1 HOME POSITION SENSOR	L	OCT1 is at its home position	EXIT
047-206	OCT2 HOME POSITION SENSOR	L	OCT2 is at its home position	EXIT
061-200	Polygon Motor Lock	L	PLYGON_MOT_LOCK signal is displayed.	
061-201	ROS Motor Fan	H	ROS_FAN_FAIL signal is displayed.	

Table 1 Input Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Remarks
071-100	#1 Pre-Feed Sensor	L	with paper	
071-101	#1 No Paper Sensor	L	with paper	
071-102	#1 Level Sensor	H	with paper	
071-103	#1 Tray Paper Size Sensor	H	with paper	
072-100	#2 Pre-Feed Sensor	L	with paper	
072-101	#2 No Paper Sensor	L	with paper	
072-102	#2 Level Sensor	L	with paper	
072-103	#2 Feed Out Sensor	H	with paper	
072-104	#2 Tray Paper Size Sensor	H	with paper	
073-100	#3 Pre-Feed Sensor	L	with paper	
073-101	#3 No Paper Sensor	L	with paper	
073-102	#3 Level Sensor	H	with paper	
073-103	#3 Feed Out Sensor	H	with paper	
073-104	#3 Tray Paper Size Sensor	H	with paper	
075-100	MSI No Paper Sensor	H	Same as Name	
077-100	Regi Sensor	L	Same as Name	
077-101	#1 Feed Out Sensor	L	Same as Name	
077-102	#2 Exit Sensor	L	Same as Name	
077-103	#2 OCT Home Position Sensor	L	Same as Name	
077-104	Dup Wait Sensor	L	Same as Name	
077-105	#1 Exit Sensor	H	Same as Name	
077-106	Dup Regi Sensor	-	Same as Name	
077-107	Dup Regi CL	-	Dup Regi Clutch Hotline	
077-200	#2 Exit Unit Detect Line	-	Same as Name	
077-201	Face Up Tray Detect Switch	-	Same as Name	
077-300	Left Hand Interlock Switch	-	Same as Name	
077-301	Left Hand Low Cover Switch	-	Same as Name	
077-302	Left Hand High Cover Switch	-	Same as Name	
077-303	Front Interlock Switch	-	Same as Name	
077-305	Dup Cover Switch	-	Same as Name	
077-306	TM Left Hand Interlock Switch	-	Same as Name	
089-100	Registration SENSOR	L	with paper	
089-101	Registration SENSOR (DM)	H	with paper Sensor level detected by DM	DM
089-200	Registration CLUTCH (DM)	L	in ON state Signal detected by DM MODULE	DM
089-201	Registration CLUTCH(EXIT)	L	in ON state Signal detected by EXIT MODULE	EXIT
091-200	Waste Toner Bottle Sensor	-	Same as Name	
091-201	Waste Toner Bottle Near Full Sensor	-	Same as Name	
093-200	Rotary Home Position Sensor		Same as Name	
094-200	2nd BTR Retract Sensor	-	2nd BTR Retract Sensor on/off is detected. [I/O]2nd BTR Retract Sensor	

Table 1 Input Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Remarks
094-201	IBT CLN Retract Sensor	-	BTR CLN Retract Sensor on/off is detected. [I/O]	
094-202	TRO Sensor	-	Same as Name	
094-203	POB Sensor	-	Same as Name	

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
010-001	Fuser Motor (Normal Speed)	H	Fuser motor rotation at 158mm/sec. [I/O] Fuser Motor On [I/O] Fuser Gain1	X	X	
010-002	Fuser Motor (Half Speed)	L	Fuser motor rotation at 79mm/sec. [I/O] Fuser Motor On [I/O] Fuser Gain1	X	X	
012-020	Front Tamper Motor Low FRONT ON/OFF	-	Same as Name	X	X	
012-021	Front Tamper Motor Middle FRONT ON/OFF	-	Same as Name	X	X	
012-022	Front Tamper Motor High FRONT ON/OFF	-	Same as Name	X	X	
012-023	Front Tamper Motor Low REAR ON/OFF	-	Same as Name	X	X	
012-024	Front Tamper Motor Middle REAR ON/OFF	-	Same as Name	X	X	
012-025	Front Tamper Motor High REAR ON/OFF	-	Same as Name	X	X	
012-026	Rear Tamper Motor Low FRONT ON/OFF	-	Same as Name	X	X	
012-027	Rear Tamper Motor Middle FRONT ON/OFF	-	Same as Name	X	X	
012-028	Rear Tamper Motor High FRONT ON/OFF	-	Same as Name	X	X	
012-029	Rear Tamper Motor Low REAR ON/OFF	-	Same as Name	X	X	
012-030	Rear Tamper Motor Middle REAR ON/OFF	-	Same as Name	X	X	
012-031	Rear Tamper Motor High REAR ON/OFF	-	Same as Name	X	X	
012-040	Stapler Move Motor Low FRONT ON/OFF	-	Same as Name	X	X	
012-042	Stapler Move Motor High FRONT ON/OFF	-	Same as Name	X	X	
012-043	Stapler Move Motor Low REAR ON/OFF	-	Same as Name	X	X	
012-045	Stapler Move Motor High REAR ON/OFF	-	Same as Name	X	X	
012-046	Staple Motor FORWARD ON/OFF	H	Same as Name	X	X	
012-047	Staple Motor REVERSE ON/OFF	H	Same as Name	X	X	
012-051	Set Clamp Paddle	-	Same as Name	X	X	
012-060	Stacker Motor UP ON/OFF	H	Same as Name	X	X	
012-061	Stacker Motor DOWN ON/OFF	H	Same as Name	X	X	
012-080	Main Drive Motor ON/OFF	L	Same as Name	X	X	

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
012-081	Eject Motor FORWARD ON/OFF	-	Same as Name	X	X	
012-082	Eject Motor REVERSE ON/OFF	-	Same as Name	X	X	
012-083	Eject Clamp Low DOWN	-	Same as Name	X	X	
012-084	Eject Clamp Middle DOWN	-	Same as Name	X	X	
012-085	Eject Clamp UP	-	Same as Name	X	X	
012-086	Set Clamp Paddle Solenoid ON	L	Same as Name	X	X	
042-001	Main Motor ON (Normal Speed)	L	Main motor rotation at normal process speed. [I/O] Main Motor [I/O] Main Motor Gain1 [I/O] Main Motor Gain2 [I/O] Main Motor Clock (normal process speed is determined depending on combination on Main Motor Gain 1, Main Motor Gain 2, and Main Motor Clock).	-	X	
042-002	Main Motor ON (Half Speed)	L	Main motor rotation speed at half process speed. [I/O] Main Motor [I/O] Main Motor Gain1 [I/O] Main Motor Gain2 [I/O] Main Motor Clock (half process speed is determined depending on combination o Main Motor Gain 1, Main Motor Gain 2, and Main Motor Clock).	-	X	
042-003	Auger Motor	L	Auger motor rotation [I/O] Auger Motor [I/O] Auger Motor CLK	-	X	
042-004	Developer Motor	L	Developer motor rotation [I/O] Deve Motor [I/O] Deve Motor CLK	-	X	
042-005	Fuser Fan	L	Fuser fan rotation Fuser fan rotates at high speed per start command. Fuser fan rotates at low speed per stop command	-	X	
042-006	Rear Fan	L	Rear fan rotation	-	X	
047-001	OFFSET MOTOR1 FORWARD ROTATION	-	Same as Name	X	X	EXIT
047-003	OFFSET MOTOR2 FORWARD ROTATION	-	Same as Name	X	X	EXIT
047-004	OFFSET MOTOR2 REVERSE ROTATION	-	Same as Name	X	X	EXIT

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
047-005	OFFSET MOTOR1 REVERSE ROTATION	-	Same as Name	X	X	EXIT
047-022	EXIT DRIVE MOTOR FORWARD (Eject Paper out)	-	Same as Name	X	X	Not Available
047-023	EXIT DRIVE MOTOR REVERSE (send paper into Dup)	-	Same as Name	X	X	Not Available
047-024	Exit Gate Solenoid	H	Switch Gate to Exit2/FUT	X	X	Not Available
047-025	FACE UP GATE SOLENOID	L	Switch FUT Gate to Face Up Tray	X	X	EXIT
047-026	EXIT 2 FAN	-	Exit 2 FAN rotating	X	X	Not Available
061-001	ROS Motor ON	-	Send a pulse to PLYGON_MOT_CLK (this pulse is generated when ROS main task is initiated).	X	X	
061-002	ROS Fan ON	-	ROS Fan is activated	X	X	
071-001	Tray 1 Feed/Lift Up Motor (CW2)	-	Turn Lift Up Motor on for two seconds when Tray 1 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 1 Level Sensor is "H"(lifted up).	O	X	
071-002	Tray 1 Feed/Lift Up Motor (CCW2)	-	Turn Lift Up Motor on for two seconds when Tray 1 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 1 Level Sensor is "H"(lifted up).	O	X	
071-003	Tray 1 Feed/Lift Up Motor (CW12)	-	Turn Lift Up Motor on for two seconds when Tray 1 Level Sensor is "L" (lifted down). Lifter Motor will not rotate when Tray 1 Level Sensor is "H"(lifted up).	O	X	
071-004	Tray 1 Feed/Lift Up Motor (CCW12)	-	Turn Lift Up Motor on for two seconds when Tray 1 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 1 Level Sensor is "H"(lifted up).	O	X	
072-001	Tray 2 Feed/Lift Up Motor (CW)	-	Turn Lift Up Motor on for two seconds when Tray 2 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 2 Level Sensor is "H"(lifted up).	O	X	
072-002	Tray 2 Feed/Lift Up Motor (CCW)	-	Turn Lift Up Motor on for two seconds when Tray 2 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 2 Level Sensor is "H"(lifted up).	O	X	

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
073-001	Tray 3 Feed/Lift Up Motor (CW)	-	Turn Lift Up Motor on for two seconds when Tray 3 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 3 Level Sensor is "H"(lifted up).	O	X	
073-002	Tray 3 Feed/Lift Up Motor (CCW)	-	Turn Lift Up Motor on for two seconds when Tray 3 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 3 Level Sensor is "H"(lifted up).	O	X	
075-001	MSI Feed Solenoid	-	MSI Feed Solenoid is turned on for 200mseconds.	X	X	DM
077-001	Take Away Clutch	-	Take Away Clutch is turned on. [I/O]TA Clutch (doubled as MSI TA clutch) [Component] By combining with Main Drive Motor [042-001], Take Away Clutch can be driven by #1 Take Away Roll and MSI Take Away Roll.	O	X	Stack Code:042-001-Main Drive Motor
077-002	Regi Clutch	-	Registration Clutch is turned on.? [I/O]TA Clutch (doubled as MSI TA clutch) [Component] By combining with Main Drive Motor[042-001], Regi Clutch can be driven by Regi Roll.	O	X	Stack Code:042-001-Main Drive Motor
077-003	Exit Gate Solenoid	-	Exit Gate is turned off/on. Off: Printed sheets are ejected to Exit 1 On: Printed sheets are ejected to Exit2. [I/O] Exit Gate Solenoid	O	X	
077-004	Face Up Gate Solenoid	-	Face Up Gate is turned off/on. Off: Printed sheets are ejected to Exit2. On: Printed sheets are ejected to Face Up Tray. [I/O] Face Up Gate Solenoid	O	X	
077-005	#2 Exit Motor Fan	-	Air is sent to Exit 2 Drive Motor. [I/O] Exit MOTOR FAN	O	X	
077-006	DUP Motor	-	Duplex Unit Feed Roll is driven. [I/O] DUP MOTOR	O	X	
077-007	Exit 2 Drive Motor (Full Speed CW)	-	Same as Name	O	X	
077-008	Exit 2 Drive Motor (Full Speed CCW)	-	Same as Name	O	X	
077-009	Exit 2 Drive Motor (Half Speed CW)	-	Same as Name	O	X	
077-011	OCT 2 Motor (CW)	-	Same as Name	O	X	
077-012	OCT 2 Motor (CCW)	-	Same as Name	O	X	

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
077-020	TM Takeaway Clutch	-	Same as Name	O	X	
077-021	TM Takeaway Motor (High)	-	Same as Name	O	X	
077-022	TM Takeaway Motor (Low)	-	Same as Name	O	X	
091-001	BCR DC BIAS	-	Same as Name	X	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
091-002	BCR AC BIAS	-	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
091-003	BCR DC/AC BIAS	-	Same as Name	X	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
091-004	Drum Motor (Normal Speed)	-	Same as Name	X	X	
091-005	DRUM MOTOR(Half Speed)	-	Same as Name	X	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
091-006	Erase Lamp	-	Same as Name	X	X	
092-001	ADC Specular	-	ADC specular reflection LED is turned on/off.	O	X	Not Available
092-002	ADC Diffuse	-	ADC regular reflection LED is turned on/off.	O	X	Not Available
092-003	ADC Shutter Open	-	ADC Shutter is opened. [I/O]TMA Shutter Open After executing this Component Control, MOB ADC Shutter needs to be closed. Otherwise, the sensor inside the shutter may be contaminated (MOB ADC shutter will be automatically closed when printing)	O	X	Not Available
092-004	ADC Shutter Close	-	ADC Shutter is closed.	O	X	Not Available
092-005	Toner Dispense	-	Toner Dispense Clutch is turned on (turned off in 2 seconds)	O	X	Not Available
093-001	Deve Bias-DC	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-002	Deve Bias-AC	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
093-003	Rotary Check (Home Unknown))	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-004	Rotary Check (Home-K)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-005	Rotary Check (Home-Y)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-006	Rotary Check (Home-M)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-007	Rotary Check (Home-C)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-008	Rotary Check (K-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-009	Rotary Check (Y-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-010	Rotary Check (M-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-011	Rotary Check (C-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-012	Rotary Check (Home-Kex)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-013	Rotary Check (Home-Yex)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
093-014	Rotary Check (Home-Mex)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-015	Rotary Check (Home-Cex)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-016	Rotary Check (Kex-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-017	Rotary Check (Yex-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-018	Rotary Check (Mex-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-019	Rotary Check (Cex-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-020	Rotary Check (Home-Kcr)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-021	Rotary Check (Home-Ycr)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-022	Rotary Check (Home-Mcr)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-023	Rotary Check (Home-Ccr)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-024	Rotary Check (Kcr-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
093-025	Rotary Check (Ycr-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-026	Rotary Check (Mcr-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
093-027	Rotary Check (Ccr-Home)	L	Same as Name	O	X	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-001	1st BTR HVPS	-	1st BTR HVPS is turned on/off. <Operating Conditions> 1) Drum motor is turned on. 2) Erase lamp is turned on. 3) BCR AC is turned on/ BCR DC is turned on. 4) 1st BTR HVPS is turned on (output value can be adjusted by NVM (nxfr_1stBtrOut): default value is 200 (20uA))	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-002	2st BTR HVPS	-	2nd BTR HVPS is turned on/off. <Operating Conditions> 1) Drum motor is turned on. 2) 2nd BTR contact completed. 3) 2nd BTR HVPS is turned on (output value can be adjusted by NVM (nxfr_2ndBtrOut): default value is 100 (1000V))	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-003	DTS HVPS	-	DTS HVPS is turned on/off (output value can be adjusted by NVM (nxfr_DtsOut): default value is 30 (3000V)).	O	O	

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
094-004	2st BTR Contact	-	<p>2nd BTR contact motion. 2nd BTR contact motion stops when 2nd BTR Retract Sensor detects that 2nd BTR is in the contact position. 1) [I/O]2nd BTR Retract Clutch is turned on. 2) [I/O]2nd BTR Retract Clutch is turned off within a period of time specified by the timer (nxfr_2ndCntStpTime) after 2nd BTR Retract Sensor is turned on. [Component] Auger Mot needs to be activated in advance.</p>	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-005	2st BTR Retract	-	<p>2nd BTR retract motion. 2nd BTR retract motion stops when 2nd BTR Retract Sensor detects that 2nd BTR is in retract position. 1) [I/O]2nd BTR Retract Clutch is turned on. 2) [I/O]2nd BTR Retract Clutch is turned off within a period of time specified by the timer (nxfr_2ndRetStpTime) after 2nd BTR Retract Sensor is turned off. [Component] Auger Mot needs to be activated in advance.</p>	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-006	IBT CLN Contact	-	<p>IBT cleaner contact motion. IBT cleaner retract motion stops when IBT Cleaner Retract Sensor detects that IBT cleaner is in contact position. 1) [I/O]IBT CLN Retract Clutch is turned on. 2) [I/O]IBT CLN Retract Clutch is turned off within a period of time specified by the timer (nxfr_ClnCntStpTime) after IBT Cleaner Retract Sensor is turned on. [Component] Auger Mot needs to be activated in advance.</p>	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
094-007	IBT CLN Retract	-	IBT cleaner contact motion. IBT cleaner retract motion stops when IBT Cleaner Retract Sensor detects that IBT cleaner is in contact position. 1) [I/O]IBT CLN Retract Clutch is turned on. 2) [I/O]IBT CLN Retract Clutch is turned off within a period of time specified by the timer (nxfr_ClnCntStpTime) after IBT Cleaner Retract Sensor is turned on. [Component] Auger Mot needs to be activated in advance.	O	O	The BCR AC, BCR DC, DEVE DC and BTR output simultaneously. * CF=53-45(CL=751-560) to 1 (single output) enables independent outputs.
094-008	IBT CLN Auger Clutch	-	BT CLN Auger Clutch is turned on/off.	O	O	
094-009	2nd BTR Retract Clutch	-	2nd BTR Retract Clutch is turned on/off. [I/O]2nd BTR Retract Clutch	O	O	
094-010	IBT CLN Retract Clutch	-	BTR CLN Retract Clutch is turned on/off. [I/O]BTR CLN Retract Clutch			

Table 3 Input Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Remarks
005-102	Document Sensor	H	No paper detected by Document Sensor	
005-110	Regi Sensor (Belt DADF/CVT)	L	Paper detected by Regi Sensor	
005-205	DADF Feed Out Sensor	H	Paper detected by Feed Out Sensor	
005-206	DADF Pre-Reg.Sensor	H	Paper detected by Pre-Reg. Sensor	
005-211	DADF Invert Sensor	H	Paper detected by Inverter Sensor	
005-212	DADF Feeder Cover Interlock Switch	-	Feeder Cover open	
005-213	DADF Platen Interlock Switch	H	Platen Interlock open	
005-215	DADF #1 Tray APS Sensor	L	Light is not blocked by the actuator	
005-216	DADF #2 Tray APS Sensor	L	Light is not blocked by the actuator	
005-217	DADF #3 Tray APS Sensor	L	Light is not blocked by the actuator	
005-218	DADF #1 APS Sensor	L	paper detected by APS No.1 Sensor	
005-219	DADF #2 APS Sensor	L	paper detected by APS No.1 Sensor	
005-220	DADF #3 APS Sensor	L	paper detected by APS No.1 Sensor	
005-221	DADF Tray Size SNR No.1	L	paper detected by Tray Size SNR No.1	
005-222	DADF Tray Size SNR No.2	L	paper detected by Tray Size SNR No.2	
005-224	Scan Start	H	Scan Start Signal ON	
005-225	Nudger Position Snr	H	The Nudger Roll is at UP position.	
062-201	Sheet Abort	L	Document Regist	

Table 3 Input Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Remarks
062-212	IIT Regi Sensor	L	De-actuation of Regi Sensor	
062-240	ADF Exist	H	DADF is not installed	
062-251	APS Sensor1	APS SNR1:L APS ON: H	Document detected	
062-253	APS Sensor3	APS SNR3:L APS ON: H	Document detected	
062-272	Scan Start	L	Scan available	
062-280	CCD Fan Fail	H	Same as Name	
062-281	IPS Fan Fail	H	Same as Name	
062-280	Lamp Fan Fail	H	Same as Name	
062-300	Platen I/L Switch	L	Platen closed	
062-301	Angle Sensor	L	Platen opened	

Table 4 Output Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Multiple Output Prohibited Items	Remarks
005-001	DADF Feed Motor(Speed1)	-	ON for 50sec -> Auto OFF	O	005-002~005-014	
005-002	DADF Feed Motor(Speed2)	-	ON for 50sec -> Auto OFF	O	005-001 005-003~005-014	
005-003	DADF Feed Motor(Speed3)	-	ON for 50sec -> Auto OFF	O	005-001~005-002 005-004~005-014	
005-004	DADF Feed Motor(Speed4)	-	ON for 50sec -> Auto OFF	O	005-001~005-003 005-005~005-014	
005-005	DADF Feed Motor(Speed5)	-	ON for 50sec -> Auto OFF	O	005-001~005-004 005-006~005-014	
005-006	DADF Feed Motor(Speed6)	-	ON for 50sec -> Auto OFF	O	005-001~005-005 005-007~005-014	
005-007	DADF Feed Motor(Speed7)	-	ON for 50sec -> Auto OFF	O	005-001~005-006 005-008~005-014	
005-008	DADF Feed Motor(Speed8)	-	ON for 50sec -> Auto OFF	O	005-001~005- 007005-009~005- 014	
005-009	DADF Feed Motor(Speed9)	-	ON for 50sec -> Auto OFF	O	005-001~005-008 005-010~005-014	
005-010	DADF Feed Motor(Speed10)	-	ON for 50sec -> Auto OFF	O	005-001~005-009 005-013~005-014	
005-013	DADF Feed Motor(Speed11)	-	ON for 50sec -> Auto OFF	O	005-001~005-010 005-014	
005-014	DADF Feed Motor(Reverse)	-	ON for 50sec -> Auto OFF	O	005-001~005-013	
005-026	DADF Reg.Motor(Speed1)	-	ON for 50sec -> Auto OFF	O	005-027~005-036	
005-027	DADF Reg.Motor(Speed2)	-	ON for 50sec -> Auto OFF	O	005-026 005-028~005-036	
005-028	DADF Reg.Motor(Speed3)	-	ON for 50sec -> Auto OFF	O	005-026~005-027 005-029~005-036	

Table 4 Output Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Multiple Output Prohibited Items	Remarks
005-029	DADF Reg.Motor(Speed4)	-	ON for 50sec -> Auto OFF	O	005-026~005-028 005-030~005-036	
005-030	DADF Reg.Motor(Speed5)	-	ON for 50sec -> Auto OFF	O	005-026~005-029 005-031~005-036	
005-031	DADF Reg.Motor(Speed6)	-	ON for 50sec -> Auto OFF	O	005-026~005-030 005-032~005-036	
005-032	DADF Reg.Motor(Speed7)	-	ON for 50sec -> Auto OFF	O	005-026~005-031 005-033~005-036	
005-033	DADF Reg.Motor(Speed8)	-	ON for 50sec -> Auto OFF	O	005-026~005-032 005-034~005-036	
005-034	DADF Reg.Motor(Speed9)	-	ON for 50sec -> Auto OFF	O	005-026~005-033 005-035~005-036	
005-036	DADF Reg.Motor(Reverse)	-	ON for 50sec -> Auto OFF	O	005-026~005-036	
005-072	Nip Release Solenoid	L	3sec on	O	-	
005-083	Doc Ready	L	Turn ON the Doc Ready signal.	X	-	
005-084	Doc Set LED	L	Belt: Turn ON the DOC SET LED	X(Belt) O(DADF)	-	
005-088	Image Area	H	ON for 5sec	O	-	
005-090	Nudger initialize	-	Performs Nudger Roll initialization.	O	-	
062-002	IIT Exposure Lamp	L	Turn the Lamp ON for 180sec -> Auto OFF	O	-	Turn it OFF when Stop command is received before Auto OFF.
062-004	IPS Cooling Fan (Low speed)	L	Same as name	O	-	
062-005	IIT Scan Motor (Scan)	Each has 4 phases. H/L Switching	Move it 50mm from current position in Scan direction -> Auto OFF	O	062-006	Stop command is not accepted before Auto OFF.
062-006	IIT Scan Motor (Return)	Each has 4 phases. H/L Switching	Move it 50mm from current position in Return direction -> Auto OFF	O	062-005	Stop command is not accepted before Auto OFF.
062-014	IPS Cooling Fan (High speed)	H	Same as name	O	-	
062-015	Lamp Cooling Fan	H	Same as name	O	-	
062-017	CCD Cooling Fan	H	Same as name	O	-	
062-086	IIT Image Area	(Differential) H	IMAGE-AREA Signal Output	X	-	
062-091	Exchange To ADF	L	Turn ON the document exchange command signal to the DADF	X	-	

Table 5 Input Component Control Codes A-Finisher

Chain-Link	Name	Connector Level	Meaning	Remarks
012-110	Regi Clutch ON	Low	IOT Regi Clutch status	Clutch ON
012-111	IOT Exit SNR	High	IOT Exit SNR status (Hot Line)	Paper exists.
012-140	Ent SNR	High	Paper Detection by Ent SNR	Paper exists.
012-150	Compile Exit SNR	High	Paper Detection by Compiler Exit SNR	Paper exists.
012-220	Front Tamper Home SNR	High	Detection of Front Tamper Position	Not Home (receiving light)
012-221	Rear Tamper Home SNR	High	Detection of Rear Tamper Position	Not Home (receiving light)
012-242	Low Staple SNR	High	Detection of staples in Stapler and of Staple Cartridge	No staples
012-243	Self Priming SNR	High	Detection of the status where Stapler Staple is ready	Not Ready
012-244	Staple Home SNR	High	Detection of Staple Head Position	Not Home
012-251	Set Clamp Home SNR	High	Detection of Set Clamp Position	Not Home (receiving light)
012-252	Eject Home SNR	High	Detection of Eject Belt Position	Not Home (receiving light)
012-267	Stack Height Sensor	Low	Detection of paper on Stacker Tray	Detects Stacker height.
012-278	Stack Sensor1	High	Detection of Stacker Tray Position	Shield exists.
012-279	Stack Sensor2	High	Detection of Stacker Tray Position	Shield exists.
012-300	Top Cover Interlock	High	Detection of Open/Closed Top Cover	Open
012-302	Finisher Front Door SW	High	Detection of Open/Closed Front Door	Open

Table 6 Output Component Control Codes A-Finisher

Chain-Link	Name	Connector	Meaning	Time Off	Multiple Output Prohibited Items
012-013	Sub Paddle Solenoid ON/OFF	L: ON H: OFF	Sub Paddle rotation	660ms	012-014

Table 6 Output Component Control Codes A-Finisher

Chain-Link	Name	Connector	Meaning	Time Off	Multiple Output Prohibited Items
012-014	Sub Paddle Rotation	equal to 012-13 and 012-95	Sub Paddle makes one rotation. (Rotates Transport Motor FORWARD at the same time as Sub Paddle Solenoid turns ON.)	Mot: 3162 Pulse Sol: 660ms	012-013 012-095 012-096 012-097
012-017	Set Clamp Motor ON/OFF	Pulse: ON H: OFF	Set Clamp Motor rotates forward.	250 pulses	012-061
012-020	Front Tamper Mot Low FRONT ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Front at low speed.	100 pulses	012-021 012-022 012-023 012-024 012-025
012-021	Front Tamper Mot Middle FRONT ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Front at medium speed.	100 pulses	012-020 012-022 012-023 012-024 012-025
012-022	Front Tamper Mot High FRONT ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Front at high speed.	100 pulses	012-020 012-021 012-023 012-024 012-025
012-023	Front Tamper Mot Low REAR ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Rear at low speed.	100 pulses	012-020 012-021 012-022 012-024 012-025
012-024	Front Tamper Mot Middle REAR ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Rear at medium speed.	100 pulses	012-020 012-021 012-022 012-023 012-025
012-025	Front Tamper Mot High REAR ON/OFF	Pulse: ON H: OFF	Front Tamper moves to Rear at high speed.	100 pulses	012-020 012-021 012-022 012-023 012-024
012-026	Rear Tamper Mot Low FRONT ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Front at low speed.	100 pulses	012-027 012-028 012-029 012-030 012-031

Table 6 Output Component Control Codes A-Finisher

Chain-Link	Name	Connector	Meaning	Time Off	Multiple Output Prohibited Items
012-027	Rear Tamper Mot Middle FRONT ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Front at medium speed.	100 pulses	012-026 012-028 012-029 012-030 012-031
012-028	Rear Tamper Mot High FRONT ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Front at high speed.	100 pulses	012-026 012-027 012-029 012-030 012-031
012-029	Rear Tamper Mot Low REAR ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Rear at low speed.	100 pulses	012-026 012-027 012-028 012-030 012-031
012-030	Rear Tamper Mot Middle REAR ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Rear at medium speed.	100 pulses	012-026 012-027 012-028 012-029 012-031
012-031	Rear Tamper Mot High REAR ON/OFF	Pulse: ON H: OFF	Rear Tamper moves to Rear at high speed.	100 pulses	012-026 012-027 012-028 012-029 012-030
012-046	Staple Motor FORWARD ON/OFF	H: ON L: OFF	Staple MOT rotates forward.	Staple Home OFF then ON makes the motor stop. (a little longer when a failure occurs)	012-047
012-047	Staple Motor REVERSE ON/OFF	H: ON L: OFF	Staple MOT reverses.	180ms	012-046
012-054	Eject Motor Low FORWARD ON/OFF	Pulse: ON H: OFF	Eject MOT rotates forward at low speed.	2000 pulses	012-055 012-056 012-057
012-055	Eject Motor High FORWARD ON/OFF	Pulse: ON H: OFF	Eject MOT rotates forward at high speed.	2000 pulses	012-054 012-056 012-057
012-056	Eject Motor Low REVERSE ON/OFF	Pulse: ON H: OFF	Eject MOT reverses at low speed.	2000 pulses	012-054 012-055 012-057
012-057	Eject Motor High REVERSE ON/OFF	Pulse: ON H: OFF	Eject MOT reverses at high speed.	2000 pulses	012-054 012-055 012-056
012-060	Stacker Motor UP ON/OFF	H: ON L: OFF	Stacker Tray goes up.	80ms	012-061
012-061	Stacker Motor DOWN ON/OFF	H: ON L: OFF	Stacker Tray goes down.	80ms	012-060

Table 6 Output Component Control Codes A-Finisher

Chain-Link	Name	Connector	Meaning	Time Off	Multiple Output Prohibited Items
012-095	Transport Motor Low ON/OFF	Pulse: ON H: OFF	Transport Mot rotates forward at low speed (equal to full IOT speed).	-	012-014 012-096 012-097
012-096	Transport Motor Hi ON/OFF	Pulse: ON H: OFF	Transport Mot rotates forward at high speed (transport speed in Finisher).	-	012-014 012-095 012-097
012-097	Transport Motor Half Speed ON/OFF	Pulse: ON H: OFF	Transport Mot rotates forward at half speed (equal to half IOT speed).	-	012-014 012-095 012-096

Hard Disk Diagnostic Program

Purpose

NOTE: HDD initialization using the UI-Diagnostic is only for Partition A.

Procedure

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostics (Entering UI Diagnostics in UI Diagnostic Mode).
 - b. Access Diagnostic Routines (Accessing Diagnostic Routines in UI Diagnostic Mode).
2. Select **Sub System**.
3. Select **Initialize Hard Disk** and select **Partition A**.
4. Press the **Start** button and select **Yes**.
5. When Partition A has been initialized is displayed, select **Confirm**.

NOTE: After the above procedure, Partition A will be initialized.

Test Pattern Print

Purpose

Prints the test patterns in the machine, to help identify Image Quality problems.

Procedure

1. Enter UI Diagnostic Mode.
2. Select **Print Test Pattern**.
3. Enter **Pattern Number**. Select a Test Pattern number from Table 1.
4. Select **Paper Supply**
5. Select **Paper Tray**.
6. Select **Save**.
7. Select **Output Color**.
Ensure that the Output Color is 4C.
8. Select **Save**.
9. Select **Quantity**.
Enter the number of print desired by pressing the Up/Down arrows.
10. Select **Cin%**. The higher the percentage, the darker the image will be.
NOTE: Choose 20% to 50% initially for good image visibility.
11. Press **Start**.

NOTE: If IOT Subsystem Fail occurs during Test Print, IOT and subsequent Diagnostics cannot be processed causing an error. Test Print cannot be canceled and the power must be turned Off/On (However, it is possible to exit Diagnostics).

If Not Ready states such as Device Error, Jam and No Paper are the cause of the error, Diagnostics can be processed and Test Print can be canceled.

As the MC competes with the contents of the instructions from the UI, the machine may print the specified test pattern or use the priority tray, or it may not print and send a message indicating that a conflict occurred.

The UI receives this message from the MC and displays a message indicating that an error occurred and printing is possible due to a conflict in the operation.

When a jam occurs, the machine stops processing (do not continue or process again). The Clear Jam screen appears and a message asking the user to clear the jam will be displayed on the UI.

Test Patterns

For details on the test pattern generation location and output path, see Table 1.

Table 1 Pattern Outline

No.	Pattern Name	Output Color and paper size available for this pattern	Built-in Image Sub
1	YCMK Grid Pattern	4C 11x17" paper	IOT
51	Grid Pattern	4C	IOT
52	Total Chart-MT-K1	4C	IOT
53	Process Control	4C	IOT

Table 1 Pattern Outline

No.	Pattern Name	Output Color and paper size available for this pattern	Built-in Image Sub
54	Process Control	4C	IOT
55	HT-Chart1-K2	4C	IOT
56	HT-Chart2-K2	4C	IOT
57	HT-Chart3-K2	4C	IOT
58	K Grid Pattern	4C	IOT
59	HT Page	4C, 4C, K, Y, C, M, R, G, B Half Tone Density Set by Cin%	IOT
60	HT stripe and ROS lines	4C	IOT
61	Color Regi Chart Rev. 72	4C	IOT
91	Process Control	4C	IOT

NOTE: •(*1): Displays 294mmx17inch (A3 breadth x Ledger length) (means that A3 and Ledger are both supported sizes)

- Prints only from the specified tray. (ATS and APS are not processed.)
- If there was an invalid print specification in 1, an error occurs.
- Prints in the paper size of the selected tray. (Print areas outside the paper size will not be printed)
- If the Finisher is installed, No Paper Run cannot be processed. No Paper Run is controlled by dummy 8.5x11LEF timing regardless of whether there is paper or paper size.
- If IOT Built-in PG is specified, 2 Sided (Dup) is prohibited when specifying MSI.

(*1):Length is longer than A4 length and breadth is longer than Letter breadth.

Webpage Administrator Password

Required to change settings on machine.

User Name: (five one's) 11111

Password: x-admin

Center Tray Offsetting

This procedure enables offsetting in Center Tray.

Procedure

Customer can perform following steps if system admin is accessible with code (five one's) 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter (five one's) 11111 using the number keypad and select **Confirm**.
2. Select **System Settings**.
3. Select **System Settings** again.
4. Select **Common Settings**.
5. Select **Other Settings**.
6. Select **Offset Stacking** and select **Change Setting**.
7. Select **Offset per Set**.
8. Select **Save**.
9. Select **Close**.
10. Select **Close** again.
11. Select **Close** again.
12. Select **Exit**. Power off and on if the setting is not active.

E-Mail Icon

This procedure restores E-Mail icon in display on machines with this capability.

Procedure

Customer can perform following steps if system admin is accessible with code (five one's) 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter (five one's) 11111 using the number keypad and select **Confirm**.
2. Select **System Settings**.
3. Select **System Settings** again.
4. Select **Network Settings**.
5. Select **Port Settings**.
6. Select **down arrow** and scroll to **Send E-mail**.
7. Select **Send E-mail** and select **Change Setting**, twice.
8. Select **Enabled** and select **Save**.
9. Select **Close**.
10. Select **Close** again.
11. Select **Close** again.
12. Select **Close** again.
13. Select **Exit**. Power off and on if the setting is not active.

FAX Output Separation

This procedure provides a method for customer to easily identify FAX output.

Procedure

If colored paper is available, load colored paper in Tray 1 SEF.

NOTE: FAX and FAX reports are printed on SEF by default.

To prevent the machine from feeding Short Edge Paper (Color), when copying Short Edge Documents (on Platen Glass or DADF) set the Tray 1 Paper Attributes as 'Custom1' and Paper Type Priority as 'Second'.

Customer can perform following steps if system admin is accessible with code (five one's) 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter (five one's) 11111 using the number keypad and select **Confirm**.
2. Select **System Settings**.
3. Select **System Settings** again.
4. Select **Common Settings**.
5. Select **Paper Tray Attributes**.
6. Select **Paper Type Priority**.
7. Select **Custom Paper 1**.
8. Select **Change Setting** and select **Second**.
9. Select **Save**.
10. Select **Close**.
11. Select **Paper Type**.
12. Select **1. Tray 1** and select **Change Settings**.
13. Select **Custom 1**.
14. Select **Save**.
15. Select **Close**.
16. Select **Close** again.
17. Select **Close** again.
18. Select **Close** again.
19. Select **Exit**. Power off and on if the setting is not active.

GP 1 Intermittent Problem RAP

The purpose of this RAP is to provide guidance for resolving an intermittent problem. This is not an exact procedure, but a set of recommended actions that use the resources of the service manual to help locate the cause of an intermittent problem.

Procedure

1. Check the service log. Recent service actions may provide information about the problem. For example, a component that was recently replaced to correct another problem may be the cause of the new intermittent problem.

2. Run the machine in a mode that vigorously exercises the function that is suspected. The machine may fail more frequently or may fail completely under these conditions. Look for signs of failure or abnormal operation.

An intermittent problem can usually be associated with a RAP, since when it does fail, it results in a fault code, a jam code, or some other observable symptom.

3. Using the RAP that is associated with the symptom of the intermittent problem, examine all of the components that are referenced in the RAP. Look for:

- Contamination, such as a feed roller that has a build up of dirt or toner
- Wear, such as gear teeth that are rounded or have excessive backlash
- HFSI, even if they are not near or have not exceeded the SPEC LIFE or COPY COUNT value
- Wires chafing against components of the machine, especially against moving components
- Misaligned, mis-adjusted, or incorrectly installed components
- Slow or slipping clutches; slow or binding solenoids
- Damaged components
- Excessive heat, or symptoms of excessive heat, such as the discoloration of a component
- Loose cables or wires

4. Using the RAP that is associated with the symptom of the intermittent problem, perform all of the adjustments for the components or functions that are referenced in the RAP. Check to ensure that the adjustment can be made and that there is an adequate range of adjustment, and that it can be set to or near the nominal value. Any abnormality that is observed may be an indication of the cause of the problem. For example, a component can be adjusted to the nominal value, but it is at the limit of the adjustment range. This is not normal and may be an indication of the cause of the problem.

5. Operate all of the components in the appropriate RAP that is associated with the symptom of the intermittent problem with Component Control. Observe the components for any symptoms of abnormal operation, such as a hesitation, or an unusual sound.

6. Check that the AC and DC power are within specifications.

7. Get technical advice or assistance where appropriate. This will depend upon the situation and the established local procedures.

8. Examine the components that are not in the RAP, but are associated with the function that is failing. Refer to the BSDs. Look for:

- Contamination, such as a feed roller that has a build up of dirt or toner
- Wear, such as gear teeth that are rounded or have excessive backlash
- HFSI, even if they are not near or have not exceeded the SPEC LIFE or COPY COUNT value

- Wires chafing against components of the machine, especially against moving components
 - Misaligned, mis-adjusted, or incorrectly installed components
 - Slow or slipping clutches; slow or binding solenoids
 - Damaged components
 - Excessive heat, or symptoms of excessive heat, such as the discoloration of a component
 - Loose cables or wires
9. Perform the adjustments for the components that are not in the RAP, but are associated with the function that is failing. Refer to the BSDs. Check to ensure that the adjustment CAN BE MADE and that there is an adequate range of adjustment, and that it can be set to or near the nominal value. Any abnormality that is observed may be an indication of the cause of the problem. For example, a component can be adjusted to the nominal value, but it is at the limit of the adjustment range. This is not normal and may be an indication of the cause of the problem
10. Operate all of the components that are not in the RAP, but are associated with the function that is failing with Component Control. Refer to the BSDs. Observe the components for any symptoms of abnormal operation, such as a hesitation, or an unusual sound.
11. Replace any components or consumable that are known to be a frequent cause of the problem. When doing this, consider the cost and time required. If the suspected item is inexpensive, can be installed quickly, and has a high probability of resolving the problem, then it is reasonable to replace it.
12. Leave an accurate and detailed record of your actions in the service log. Describe what you have observed, what actions you took, and what else needs to be done.

GP 2 Fax Diagnostics

Purpose

This procedure describes the process for running fax diagnostic tests found in UI Diagnostic Mode.

Procedure

To Access Fax Diagnostics:

1. Enter UI Diagnostic Mode.
2. Press the **Log In/Out** button on the Control Panel
3. On the display, select **System Settings**, then **Common Settings**, then **Maintenance/Diagnostics**.
4. Select Sub System.
5. Select **Fax Diagnostics**.

There are two tests for Fax Diagnostics, the Signal Sending Test and the Relay On/Off Test

Signal Sending Test

This test checks the ability of the Fax system to generate and transmit a specific signal.

To run this test:

1. From the Fax Diagnostics screen, select **Signal Sending Test**.
2. Select the line number you wish to test (standard line is **1**. Lines **3** and **5** are for optional additional lines, **0**, **2**, and **4** are for FX use only).
3. Enter the **Signal Number** you wish to test and select **Send Signals**. Refer to Table 1 for the list of signal numbers.
4. An audio tone or tones corresponding to the selected signal should be heard. This verifies communication from the UI to the ESS PWB, and demonstrates the ability of the system to generate the specific signal being tested.
If an error occurs, a Fault Code will be displayed.
5. To stop the test, select **Cancel Sending**.

Relay On/Off Test

This test turns on/off various relays that are used in the NCU.

To run this test:

1. From the Fax Diagnostics screen, select **Relay On/Off Test**.
2. Select the Line Number and select **Relay On**.
If an error occurs, a Fault Code will be displayed. Listen for the Relay to pick up the Line.
3. To stop the test, select **Relay Off**.

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
011	Tonal Signal Output	462Hz
012	Tonal Signal Output	1080Hz
013	Tonal Signal Output	1100Hz
014	Tonal Signal Output	1300Hz

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
015	Tonal Signal Output	1650Hz
016	Tonal Signal Output	1850Hz
017	Tonal Signal Output	2100Hz
019	DTMF Signal Output	Dual Tone 1
020	DTMF Signal Output	Dual Tone 2
021	DTMF Signal Output	Dual Tone 3
022	DTMF Signal Output	Dual Tone 4
023	DTMF Signal Output	Dual Tone 5
024	DTMF Signal Output	Dual Tone 6
025	DTMF Signal Output	Dual Tone 7
026	DTMF Signal Output	Dual Tone 8
027	DTMF Signal Output	Dual Tone 9
028	DTMF Signal Output	Dual Tone 0
029	DTMF Signal Output	Dual Tone *
030	DTMF Signal Output	Dual Tone #
031	DTMF Signal Output	Dual Tone A
032	DTMF Signal Output	Dual Tone B
033	DTMF Signal Output	Dual Tone C
034	DTMF Signal Output	Dual Tone D
035	V.21 (H) Signal Output	HDLC Flag
036	V.27ter Signal Output	2400 bps (HDLC Flag)
037	V.27ter Signal Output	4800 bps (HDLC Flag)
038	V.29 Signal Output	7200 bps (HDLC Flag)
039	V.29 Signal Output	9600 bps (HDLC Flag)
040	V.17 Signal Output	7200 bps (HDLC Flag)
041	V.17 Signal Output	9600 bps (HDLC Flag)
042	V.17 Signal Output	12000 bps (HDLC Flag)
043	V.17 Signal Output	14400 bps (HDLC Flag)
080	V.8 Signal Output	ANSam
081	V.8 Signal Output	CM
082	V.8 Signal Output	JM
083	V.8 Signal Output	INFOc
084	V.8 Signal Output	INFOa
085	V.8 Signal Output	PPh+ALT
096	V.34 Signal Output	2400/2400 (HDLC Flag)
097	V.34 Signal Output	4800/2400 (HDLC Flag)
098	V.34 Signal Output	7200/2400 (HDLC Flag)
099	V.34 Signal Output	9600/2400 (HDLC Flag)
100	V.34 Signal Output	12000/2400 (HDLC Flag)
101	V.34 Signal Output	14400/2400 (HDLC Flag)
102	V.34 Signal Output	16800/2400 (HDLC Flag)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
103	V.34 Signal Output	19200/2400 (HDLC Flag)
104	V.34 Signal Output	21600/2400 (HDLC Flag)
106	V.34 Signal Output	4800/2743 (HDLC Flag)
107	V.34 Signal Output	7200/2743 (HDLC Flag)
108	V.34 Signal Output	9600/2743 (HDLC Flag)
109	V.34 Signal Output	12000/2743 (HDLC Flag)
110	V.34 Signal Output	14400/2743 (HDLC Flag)
111	V.34 Signal Output	16800/2743 (HDLC Flag)
112	V.34 Signal Output	19200/2743 (HDLC Flag)
113	V.34 Signal Output	21600/2743 (HDLC Flag)
114	V.34 Signal Output	24000/2743 (HDLC Flag)
117	V.34 Signal Output	4800/3000 (HDLC Flag)
118	V.34 Signal Output	7200/3000 (HDLC Flag)
119	V.34 Signal Output	9600/3000 (HDLC Flag)
120	V.34 Signal Output	12000/3000 (HDLC Flag)
121	V.34 Signal Output	14400/3000 (HDLC Flag)
122	V.34 Signal Output	16800/3000 (HDLC Flag)
123	V.34 Signal Output	19200/3000 (HDLC Flag)
124	V.34 Signal Output	21600/3000 (HDLC Flag)
125	V.34 Signal Output	24000/3000 (HDLC Flag)
126	V.34 Signal Output	26400/3000 (HDLC Flag)
127	V.34 Signal Output	28800/3000 (HDLC Flag)
129	V.34 Signal Output	4800/3200 (HDLC Flag)
130	V.34 Signal Output	7200/3200 (HDLC Flag)
131	V.34 Signal Output	9600/3200 (HDLC Flag)
132	V.34 Signal Output	12000/3200 (HDLC Flag)
133	V.34 Signal Output	14400/3200 (HDLC Flag)
134	V.34 Signal Output	16800/3200 (HDLC Flag)
135	V.34 Signal Output	19200/3200 (HDLC Flag)
136	V.34 Signal Output	21600/3200 (HDLC Flag)
137	V.34 Signal Output	24000/3200 (HDLC Flag)
138	V.34 Signal Output	26400/3200 (HDLC Flag)
139	V.34 Signal Output	28800/3200 (HDLC Flag)
140	V.34 Signal Output	31200/3200 (HDLC Flag)
142	V.34 Signal Output	4800/3429 (HDLC Flag)
143	V.34 Signal Output	7200/3429 (HDLC Flag)
144	V.34 Signal Output	9600/3429 (HDLC Flag)
145	V.34 Signal Output	12000/3429 (HDLC Flag)
146	V.34 Signal Output	14400/3429 (HDLC Flag)
147	V.34 Signal Output	16800/3429 (HDLC Flag)
148	V.34 Signal Output	19200/3429 (HDLC Flag)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
149	V.34 Signal Output	21600/3429 (HDLC Flag)
150	V.34 Signal Output	24000/3429 (HDLC Flag)
151	V.34 Signal Output	26400/3429 (HDLC Flag)
152	V.34 Signal Output	28800/3429 (HDLC Flag)
153	V.34 Signal Output	31200/3429 (HDLC Flag)
154	V.34 Signal Output	33600/3429 (HDLC Flag)
160	DTMF Signal Output	Signal Tone 697Hz
161	DTMF Signal Output	Signal Tone 770Hz
162	DTMF Signal Output	Signal Tone 852Hz
163	DTMF Signal Output	Signal Tone 941Hz
164	DTMF Signal Output	Signal Tone 1209Hz
165	DTMF Signal Output	Signal Tone 1336Hz
166	DTMF Signal Output	Signal Tone 1477Hz
167	DTMF Signal Output	Signal Tone 1633Hz

GP 3 Resetting the Administrator Password

Purpose

The purpose of this procedure is to allow the CSE to recover the Administrator Password in situations where the customer has changed the password from the default value, and subsequently lost or forgotten the password.

Procedure

1. Enter UI Diagnostic Mode.
2. Press the **Log In/Out** button on the Control Panel
3. Select **System Settings**.
4. Select **Common Settings**.
5. Select **Diagnostics / Maintenance**.
6. Select **NVM Read/Write**.
7. Enter location 700-171 and press **Confirm/Change**. This is the current password. You can provide this number to the customer, or set the location to the default value five one's (11111) and allow the customer to enter a new number from Tools mode.

GP 4 Replacing Billing PWBs

Purpose

This procedure is used to maintain serial number, product number, and billing data integrity when PWBs with billing data must be replaced.

Procedure

PART 1

1. Gather the NVM information.
 - a. Service log settings
 - b. Factory settings
2. Document the Settings in Access Mode.

NOTE: *These are the customer settings that should be reinstalled at the end of this procedure.*

3. Do a Save and Restore (GP 9) with the PWS Tool.
4. Replace the PWB in question and return to this procedure.

PART 2

CAUTION

*To maintain the integrity of the serial number and billing data never replace all of the PWBs at once. If any of the following billing data PWBs needs replacing, replace them **ONE AT A TIME** and perform this procedure after each one is replaced:*

- ESS PWB.
- MCU PWB.

Ensure that the correct version of software is installed on the PWBs before and after PWB replacement. Print the System Settings List (GP 5), and compare the ROM values to the table in the software installation instructions on the current software upgrade CD.

1. Enter UI Diagnostic Mode.
2. Press the **Log In/Out** button on the Control Panel
3. Select **System Settings**.
4. Select **Common Settings**.
5. Select **Maintenance/Diagnostics**.
6. Select **Adjustment/Others**.
7. Select **Machine ID/Billing Data**.
8. Select the PWB that has not been replaced.
9. Press the **Start** button.

CAUTION

*Perform GP 4 Part 2 after each PWB is replaced. To maintain the integrity of the serial number and billing data never replace all of the PWBs at once. Replacing all PWBs at once will cause unrecoverable NVM corruption. If a PWB needs replacing, only replace **ONE AT A TIME** and perform this procedure after each one is replaced. If the problem is not resolved, reinstall the original PWB and re-enter the serial number (if necessary) before attempting to replace a different PWB.*

10. Check that all **Serial Numbers** match each PWB listed and is a match to the data plate.
11. Check that all Billing Data match each PWB listed.
12. Check that the **Product Number** match each PWB listed.

13. If any PWB will not synchronize, replace that PWB and re-synchronize.
14. Restore all Service Log Settings, Factory Settings and Customer Settings (GP 9)

GP 5 Printing Reports

Description

This procedure describes how to print reports.

Procedure

Refer to types of reports below.

System Settings List

Printing the **System Settings List** (Configuration Report) without entering Diagnostics Mode.

NOTE: Other report titles are also listed for your information

NOTE: If paper size errors occur when attempting to print reports, check that NVM location 700-397 is set for the appropriate paper size (44 = 8.5 x 11 in.; 5 = A4) (refer to NVM Read/Write).

1. Press the **Machine Status** button on the Control Panel.
2. Select **Billing Meter/Print Report** tab on the display.
3. Select **Print Report/List**.
4. Select the following tabs to print the selected reports.
 - Job Status/Activity Report
 - Job History Report
 - Activity Report
 - Error History Report
 - Stored Documents List
 - Scan Mode Settings
 - Settings List
 - Job Template List
 - Address Book
 - Copy Mode Settings
 - Settings List-Common Items
 - FAX Mode Settings
 - Settings List
 - Address Book
 - Comments List
 - Print Mode Settings
 - Settings List-Common Items (will be selected in next step)
 - PCL Settings List
 - PCL Form List
 - PDF Settings List
 - TIFF Settings List
 - TIFF Logical Printers List
 - PS Logical Printers List
 - Fonts List
 - PostScript Fonts List

5. Select **Settings List-Common Items**.
6. Press the **Start** button.

Other Reports

The following reports can be printed from the UI Diagnostic Mode:

1. Enter the Diagnostic Mode (Entering UI Diagnostics).
2. Press the **Machine Status** button on the Control Panel.
3. Select the **Billing Meter/Print Reports** tab on the display.
4. Select the **Print Reports/List** button.
5. Select the scroll down arrow.
6. Select the **CE** button.
7. The following reports can be printed.
 - a. Debug Log Report
 - b. HFSI Report
 - c. Jam Report
 - d. Shutdown Report
 - e. Failure Report
 - f. Protocol Monitor Report
8. Select the requested log button and press the **Start** button. The selected log will be printed.

GP 6 Special Boot Modes

Purpose

This procedure describes methods of recovering from certain uncertain faults.

Procedure

Some boot-up failures, as well as some uncertain fault codes, may be caused by software corruption, or by structural flaws in a command sent to the machine. In these cases, it is sometimes possible to bypass or delete the offending code during the startup process.

CAUTION

There are four special boot modes. Each mode performs a different set of initializations to bypass a specific set of problems. There is information lost in each procedure, thus, they should not be used unless specific directions are given. The following list gives these procedures, in the order from least-invasive to most-invasive. If you are instructed to perform a specific initialization, perform only that procedure. If you are asked to perform the entire series, perform the steps in the order given, until the problem is resolved.

Log Initialization

This step will delete any print or copy job that is in process, and then perform a reboot.

To execute: Simultaneously press and hold the **1**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen appears and the second segment of the progress bar appears.

Spool Initialization

This step will delete all pending print or copy jobs in the job queue, and then perform a reboot.

To execute: Simultaneously press and hold the **6**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen appears and the second segment of the progress bar appears.

HDD Initialization

This step will delete all pending print or copy jobs in the IOT job queue, initializes the IOT HDD, and will and then perform a reboot. All customer data on the HDD will be deleted.

To execute: Simultaneously press and hold the **4**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen appears and the second segment of the progress bar appears.

ESS NVM Initialization

CAUTION

This routine will set all IOT ESS NVM values to default. Do not attempt this procedure unless there is a usable Machine Settings floppy, an accurate Configuration Report and/or other data that will enable you to reload the correct NVM values for this machine.

This step will initialize the IOT ESS NVM (SYS-System and SYS-User) and then perform a reboot.

To execute: Simultaneously press and hold the **3**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen appears and the second segment of the progress bar appears.

GP 7 Country Code Setting

Purpose

To input country code.

Procedure

1. Access Diagnostic Routines.
 - a. Enter UI Diagnostic Mode.
2. Select **NVM Read Write**.
3. Perform NVM Read/Write on Chain Link 700-165.
0: No customer setting (default)
1: Customer setting for other than North America.
2: Customer setting for North America.
4. Select Close and Exit.

Change country code at Customer site.

1. Enter **System Administrator** mode.
 - a. Press Log In/Out button on Control Panel.
 - b. Enter (five one's) 11111.
2. Select System Setting -> Common Settings -> Other Settings.
3. In the menu, 15. Country to be selected.
This menu shall appear only when Chain-Link 700-840 is set to 1 or 2.
4. Select Change Settings.
5. Country menu appears.
6. Select the country.
7. Select Save.
8. Select Close 3 times and Exit.

GP 8 Firmware Version

Description

This procedure describes how to determine firmware version of machine subsystems that are administered by Firmware Version designations.

Procedure

Firmware Version of Controller+PS ROM, IOT ROM, Finisher ROM, IIT ROM, ADF ROM, and FAX ROM

NOTE: If paper size errors occur when attempting to print reports, check that NVM location 700-397 is set for the appropriate paper size (44 = 8.5 x 11 in.; 5 = A4) (refer to NVM Read/Write).

1. Press the **Machine Status** button on the Control Panel.
2. Select **Billing Meter/Print Report** tab on the display.
3. Select **Print Report/List**.
4. Select **Print Mode Settings**.
5. Select **Settings List - Common Items**.
6. Press the **Start** button.

NOTE: Page 1 of the report will list Firmware Version of Controller+PS ROM, IOT ROM, Finisher ROM, IIT ROM, ADF ROM, and FAX ROM

Firmware Version of Duplex, and TTM/2TM

NOTE: Obtaining the Firmware Level for the Duplex Module, and the TTM (Tandem Tray Module)/2TM (2 Tray Module) requires reading two NVM locations, adding a decimal point behind the first read, adding a leading zero if the second read is a single digit, and combining the second read behind the decimal point to formulate a Firmware Level.

1. Enter UI Diagnostic Mode.
2. Select **Maintenance/Diagnostics**.
3. Select NVM Read/Write.
4. To check Duplex go to step 5.
To check TTM/2TM go to 6.
5. Perform following to check Duplex.
 - a. Enter 742-227 using number keypad and select **Confirm/Change**.
 - b. Record the Current Value. Place a decimal point after the value.
 - c. Select **Cancel**.
 - d. Enter 742-228 using number keypad and select **Confirm/Change**.
 - e. Record the Current Value. If Current Value is a single digit, add a leading zero and record behind decimal from first read. This is the Duplex Firmware Version.
 - f. Select Cancel as required to exit or proceed to next step.
6. Perform following to check TTM/2TM.
 - a. Enter 742-229 using number keypad and select **Confirm/Change**.
 - b. Record the Current Value. Place a decimal point after the value.
 - c. Select **Cancel**.
 - d. Enter 742-230 using number keypad and select **Confirm/Change**.

- e. Record the Current Value. If Current Value is a single digit, add a leading zero and record behind decimal from first read. This is the Duplex Firmware Version.
- f. Select Cancel as required to exit.

GP 9 Save and Restore

Description

The purpose of this procedure is to use the Save and Restore Tool to Save and Restore NVM values.

Procedure

Save Machine Settings

1. Remove the cover from the USB Diagnostic port (Figure 1).
2. Connect the USB cable to the IOT USB Diagnostic port (on the ESS Controller) and to the PWS laptop.
3. Close all applications, including virus scan and Bus Station.
4. Insert a blank formatted floppy (storage media) in your floppy drive.
5. Ensure that the machine is in the ready to copy mode.
6. On the PWS laptop, select **Start / Programs / Xerox Applications / PWS Diagnostic Tools / Xerox Workcentre 7132 PWS Diagnostics Tool**.
7. Select **Enter Diagnostics**.
8. Select **dC351**.
9. Select the **All** radio button, then **Save Machine Settings**.
10. When Save is complete, then Close Diagnostic Tool by selecting **File** then **Exit**.
11. When **Save As** dialog box opens, save file to default location (C:\Xerox \ PWS Diagnostic Tool \ Data \ WC_7132 \ Backup).

Restore Machine Settings

1. When the machine is Ready to Copy, select **Start / Programs / Xerox Applications / PWS Diagnostic Tools / Xerox Workcentre 7132 PWS Diagnostics Tool**.
2. Check **Use Saved Database** box.
3. Select **Enter Diagnostics**.
4. Select the File that was saved when the NVM's were saved, then select **Open**.
5. Select **dC351**.
6. Select the **All** radio button then **Restore Machine Settings**.
7. Select **Yes** when the **dC351** Restore Conform Dialog box opens.
8. When Restore is complete, then close **Diagnostic Tool** by selecting **File** then **Exit**.
9. Select **Cancel** when **Save As** dialog box opens.

GP 10 Loading And Upgrading Software

Description

This procedure enables updating the machine software (ESS, FAX, IISS, IOT) or when reinstallation of the software is required due to a failure. The WC 7132 PWS Diagnostic tool for software download comes with the system software disc.

CAUTION

This procedure is generic in nature and is intended as an overview only. Always follow the instructions that come with the software. There may be additional steps added, or other special requirements that vary from version to version.

Procedure

1. Using the instructions on the pull out sheet that comes with the system software disc, load the WC 7132 software download tool on you PWS.
2. Make a copy of the color test pattern 82E13120 and check for Image Quality problems. Resolve any problems before performing the software loading.
3. Print a copy of the Systems Settings List.
4. Switch off the WC 7132.
5. Disconnect the RJ45 Network Connector to the customer's network.
6. Connect the PWS to the USB 1.1 port on the WC 7132.

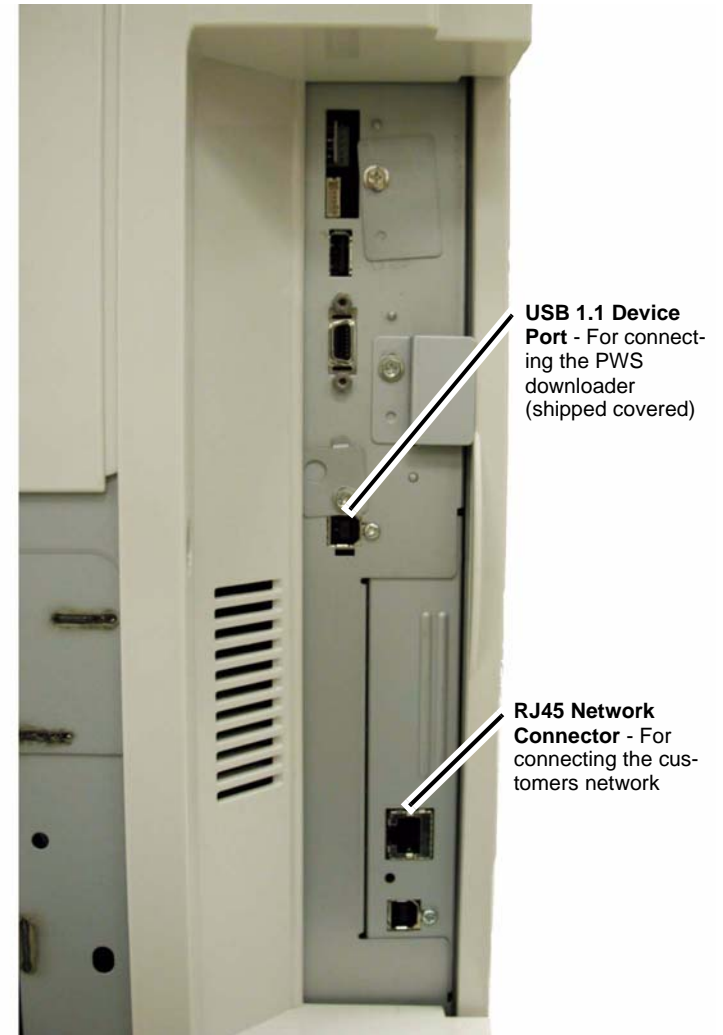


Figure 1 WC 7132 Connections

7. Switch on the WC 7132.
8. The Found New Hardware wizard will appear. It will ask to install the **Fuji Xerox PWS USB Interface Driver for 2nd Generation**. Select **Install the Software Automatically** and select **Next**. Follow the prompts to complete the driver installation.
9. Go to **Product Tools** and start the **WC 7132 PWS Diagnostic Tool**.
NOTE: *The actual instructions that accompany the software may have additional steps here, such as a list of NVM values that need to be recorded.*
10. When the tool is connected, select **Enter Diagnostics**.

11. Select **dc 351**, ensure that the **All** button is selected.
12. Select **Save Machine Settings**. When the upload is complete select **File** and **Exit** the Diagnostics Tool. When prompted, save the Machine Data file.
13. Switch off the WC 7132.
14. Switch on the power while pressing the Power Saver switch. Download Mode will be displayed on the UI.

NOTE: A new hardware wizard may appear and you will be asked to install the **Fuji Xerox Firmware Download Device** on your PWS. Select **Cancel**.

15. Start the WC 7132 PWS Diagnostic Tool. When connected select **Enter Software Download**.

NOTE: The actual instructions will list the files that need to be selected.

Generally the **Add all 1 File** selection is used when upgrading to a newer version of the software. Use the **Add All 1 File (Postscript)** selection if a PostScript module is installed.

NOTE: The presence of the PostScript module can be verified from the System Settings List under Software Version. If the statement "Controller+PS ROM" appears, the PostScript module is installed. Alternatively you can remove the ESS cover and verify if a PostScript module is installed on the Printer PWB.

If there is no PostScript module, used the **Add All 1 File (Standard)**.

If reinstalling software at the same version, use individual files as the **Add All 1 File** option as this will not overwrite a file of the same version.

16. Select the appropriate file(s) for download.
17. Select **Start Download...** the screen will display **Processing** (Load time is approximately 15 minutes).
18. When the download is completed, the machine will reboot. Exit the PWS tool.
Perform any additional steps or procedures per the actual instructions that accompany the software.
19. Print a new copy of the System Settings List and verify that the software has been upgraded or reloaded to the correct version.
20. Reconnect the customer's network to the RJ45 port on the WorkCentre 7132.

GP 11 Software Option Installation and Removal

Description

This procedure provides the steps necessary for installing one or more of the following Software Options:

- Email
- Network Scanning
- Internet Fax
- Data Security
- Network Accounting

This procedure also provides the steps necessary for verifying or determining what Software Options are installed in a machine as well as the procedure for removing all of the installed Software Options all at once.

Install Software Options:

NOTE: The Internet Fax option requires the 1 Line Fax kit or the 3 Line Fax kit be installed before it can be installed. The Email and Network Scanning options do not require any additional kits or hardware.

1. Switch the machine on.
2. Press the **<Log In\Out>** button on the machine Control Panel.
3. Enter the User ID on the numeric keypad on the Control Panel or the keyboard screen, then select **[Confirm]**.

NOTE: The default Key Operator ID is **(five one's) 11111**. If the Auditron feature is enabled, you may be required to enter the Key Operator ID and the password. The default password is x-admin (lower case letters).

4. Select **[System Settings]** on the **[System Administration menu]** screen.
5. Select **[System Settings]** on the **[System Settings]** screen.
6. Select **[Common Settings]** on the **[System Settings]** screen.
7. Select **[Maintenance]** on the **[Common Settings]** screen.
8. Select **[Software Options]** on the **[Maintenance]** screen.
9. Select **[Keyboard]**, then type in the Password for the Software Option that is being installed and select **[Save]**.

NOTE: The Password can be found inside the front cover of the Software Option booklet(s) that are provided to the customer at machine install based on the Software Options that the customer purchased.

NOTE: The Password must be typed into the machine exactly as it appears in the booklet. The Password may contain upper and lower case letters, numbers and characters such as dashes or stars.

NOTE: If the customer purchased more than one Software Option, then each of the Passwords can be typed in and saved individually prior to rebooting the machine.

10. Select **[Reboot]** once all of the Passwords have been typed in.
11. Use the procedure "**Determine what Software Options are installed:**" to confirm that the Software Options have been installed.

Determine what Software Options are installed:

1. Press the <Log In\Out> button on the machine Control Panel.
2. Enter the correct User ID using the numeric keypad on the Control Panel or the keyboard screen, then select **[Confirm]**.

NOTE: The default Key Operator ID is (five one's) 11111. If the Auditron feature is enabled, you may be required to enter the Key Operator ID and the password. The default password is x-admin (lower case letters).

3. Select **[System Settings]** on the **[System Administration menu]** screen.
4. Select **[System Settings]** on the **[System Settings]** screen.
5. Select **[Common Settings]** on the **[System Settings]** screen.
6. Select **[Screen/Button Settings]** on the **[Common Settings]** screen.
7. Select **[All Services]**, then select **[Change Settings]** on the **[Screen/Button Settings]** screen.
8. Select one of the buttons labeled **[Not Set]** and the list of installed Software Options will be displayed.

NOTE: It may be necessary to scroll to the next screen by selecting the Down Arrow button to find a button labeled **[Not Set]**.

NOTE: The default items that will be listed if no Software Options have been installed are: Copy, Check Mailbox and Stored Programming. The Fax option will also be listed if the Fax hardware kit is installed.

9. Select **[Cancel]**, then select **[Close]** several times and then select **[Exit]** to exit out of Tools mode.

NOTE: If xxx is installed, then xxx is also installed, but does not show on the display.

Uninstall Software Options:

NOTE: This procedure will uninstall all Software Options at once; there is no way to select specific Software Options to uninstall.

NOTE: Be sure that the Software Option booklet(s) are available because if any of the uninstalled Software Options need to be reinstalled, the Passwords located in the booklets will be required.

1. Press the <Log In\Out> button on the machine Control Panel.
2. Enter the correct User ID using the numeric keypad on the Control Panel or the keyboard screen, then select **[Confirm]**.

NOTE: The default Key Operator ID is (five one's) 11111. If the Auditron feature is enabled, you may be required to enter the Key Operator ID and the password. The default password is x-admin (lower case letters).

3. Select **[System Settings]** on the **[System Administration menu]** screen.
4. Select **[System Settings]** on the **[System Settings]** screen.
5. Select **[Common Settings]** on the **[System Settings]** screen.
6. Select **[Maintenance]** on the **[Common Settings]** screen.
7. Select **[Software Options]** on the **[Maintenance]** screen.

8. Select **[Keyboard]**, then type in **ClearAllFlag** (all one word and case sensitive) and select **[Save]**.
9. Select **[Reboot]** to reboot the machine.
10. Use the procedure "**Determine what Software Options are installed:**" to confirm that the Software Options have been uninstalled.

NOTE: The default items that will be listed when all Software Options have been removed are: Copy, Check Mailbox and Stored Programming. The option Fax will also be listed if the Fax hardware is installed.

11. Use the procedure "**Uninstall Software Options:**" to reinstall the Software Options that the customer has purchased.

Elan Boot Sequence

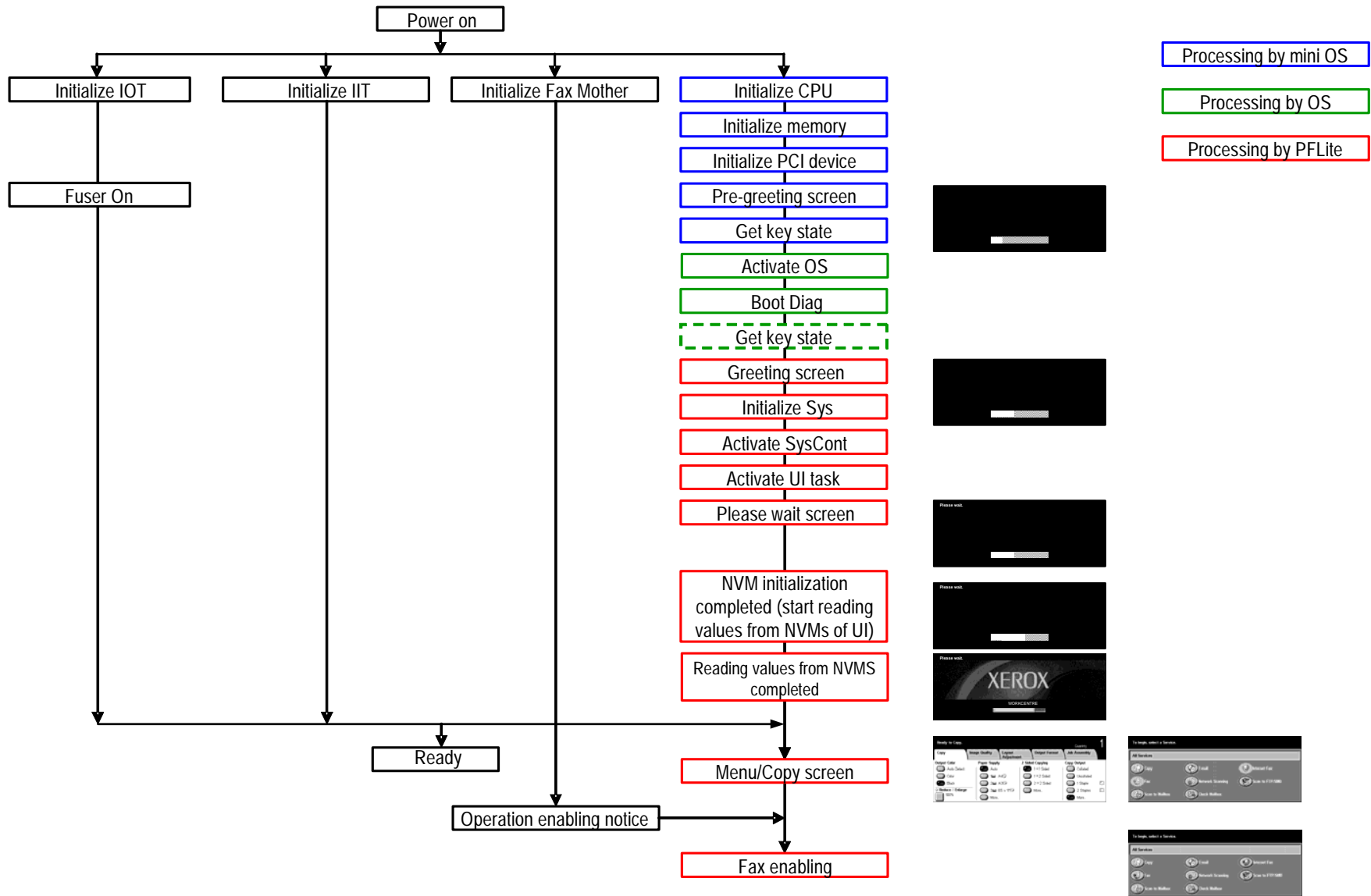


Figure 1 Elan Boot Sequence

GP 13 Network Scanning Template Removal and Repository Reset Procedure

Procedure

This procedure provides the steps necessary for removing Network Scanning Templates from a machine when all other removal methods were unsuccessful.

Network Scanning Template Removal:

NOTE: The following procedure will remove all displayed Network Scanning Templates as well as any Fonts, Forms and Logos that the customer may have downloaded to the machine. Inform the customer of this prior to proceeding with this procedure.

1. Switch the machine on.
2. Press the <Log In\Out> button on the machine Control Panel.
3. Enter the correct User ID using the numeric keypad on the Control Panel or the keyboard screen, then select [Confirm].

NOTE: The default Key Operator ID is (five one's) 11111. If the Auditron feature is enabled, you may be required to enter the Key Operator ID and the password. The default password is x-admin (lower case letters).

4. Select [System Settings] on the [System Administration menu] screen.
5. Select [System Settings] on the [System Settings] screen.
6. Select [Common Settings] on the [System Settings] screen.
7. Select [Maintenance] on the [Common Settings] screen.
8. Select [Initialize Hard Disk] on the [Maintenance] screen.
9. Select [Partition A], then select [Start], then select [Yes] to confirm that you want to perform this operation.
10. Select [Confirm] once the procedure has completed.
11. Select [Close] several times, then select [Exit]. The machine will reboot automatically.

Network Scanning Repository Reset Procedure:

NOTE: This procedure will reset all 5 Network Scanning Repositories to factory defaults. As a result, all Templates that utilize the Repositories will no longer function.

NOTE: NOTE: This procedure will also delete the following settings:

- *
 - *
 - *
 - *
1. Switch the machine on.
 2. Enter UI Diagnostic Mode. The Touch screen background should turn black.
 3. Press the <Log In/Out> button.
 4. Select [System Settings] on the [System Administration menu] screen.
 5. Select [Common Settings] on the [System Settings] screen.
 6. Select [Maintenance / Diagnostics] on the [Common Settings] screen.

7. Select [Initialize NVM] on the [Maintenance] screen.
8. Select [Sys_SYSTEM], then select [Start], then select [Yes] to confirm that you want to perform this operation.
9. Select [Confirm] once the procedure has completed.
10. Select [Exit (Keep Log)] then select [Yes] to confirm your choice.
11. Select [Close] several times, then select [Exit]. The machine will reboot automatically.

GP 14 Setup and Scan to PWS

Procedure

This procedure is intended to provide instructions for setting up the PWS and WC 7132 to enable scanning to the PWS. Once the PWS is configured, it can be used as a tool to confirm that a WC 7132 can scan and deliver a file via a network connection. Future attempts to verify scanning to the PWS can be done by configuring the PWS to **Obtain an IP Address Automatically**. Then simply enter the Scan folder name, User name, and Password into the WC 7132 as described in the following procedures (Preparing the WC 7132).

The first part of this procedure provides instructions to configure the PWS. For the PWS to accept scanned files from the machine, it must be configured with an authorized user account that the machine will use to log in with. The PWS also needs a shared folder that will be used as a target location to copy the file into.

Preparing the PWS

Select the PWS Network Settings;

1. Select **Start/Settings/Network Connections/Local Area Connections**.
2. Access **Properties**. Scroll down and select **Internet Protocol (TCP/IP)**.
3. Select **Properties** and then select **Obtain an IP Address Automatically**.
4. Click on the **Advanced** button. Select the **WINS** tab.
5. Select **Default** inside the **NetBIOS setting** area of the window.
6. Select **OK** twice and **Close** to exit the windows.

Create a User Account for Scanning;

1. Right-Click **My Computer** on the PWS desktop and select **Manage**.
2. Select **Local Users and Groups** and then double-click the **Users** folder.
3. Select the **Action** menu item and select **New User** (Figure 1).

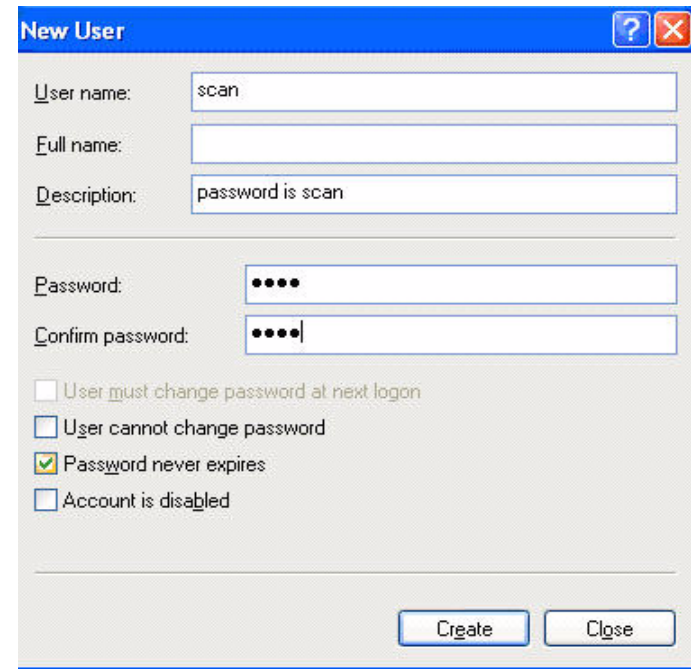


Figure 1 (new user)

4. Enter a new **User Name** and **Password** in the appropriate fields.
 - You can put a statement such as **Password is** in the **Description** field to remind you if you forget the password some day. The password is case sensitive so be accurate.
5. Uncheck **User must change password at next logon**.
6. Select **Password Never Expires**.
7. Select **Create**, then **Close**.
8. The new user will be displayed in the list – Close the Computer Management window.

Create and configure the Shared folder on the PWS;

1. Create a new folder on your C:/ drive (Named **Scan** in these examples).
2. Right-click the new folder and select **Sharing and Security** from the menu.
3. Compare the next two illustrations with the screen displayed on your PWS. Use the instructions associated with the screen that matches your PWS.

If you see Figure 2;

- Select **Share the folder on the network** and **Allow network users to change my files**.

- Attempt to scan to PWS using the instructions starting at Preparing the WC 7132.

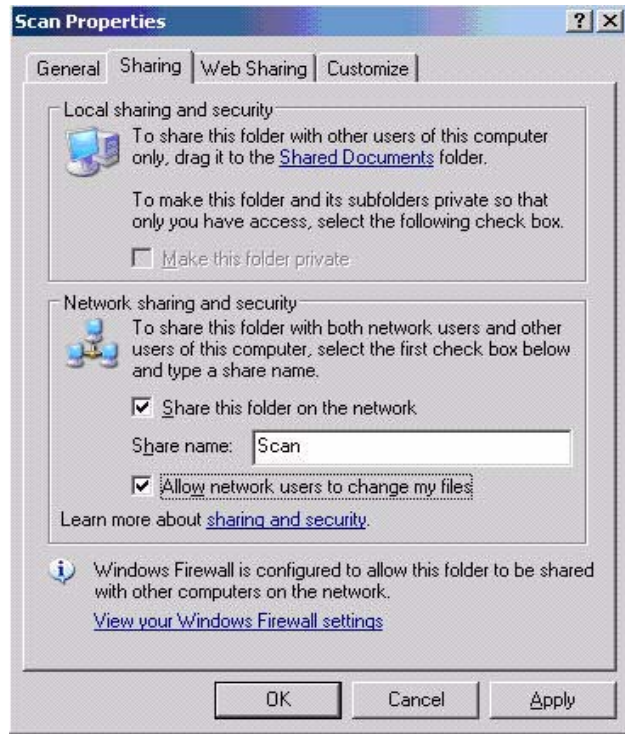


Figure 2 (Scan Properties (Sharing))

If not successful;

- Select the **Scan** folder and then select **Tools** at the top of the screen.
- Select **Folder Options** and then select the **View** tab.
- Uncheck **Use simple file sharing (Recommended)** from the list and click the **Apply** and **OK** buttons.
- Continue to step 4.

If you see Figure 3;

- Select the **Scan** folder and then select **Tools** at the top of the screen
- Select **Folder Options** and then select the **View** tab
- Uncheck **Use simple file sharing (Recommended)** from the list and click the **Apply** and **OK** buttons.
- Continue to step 4.

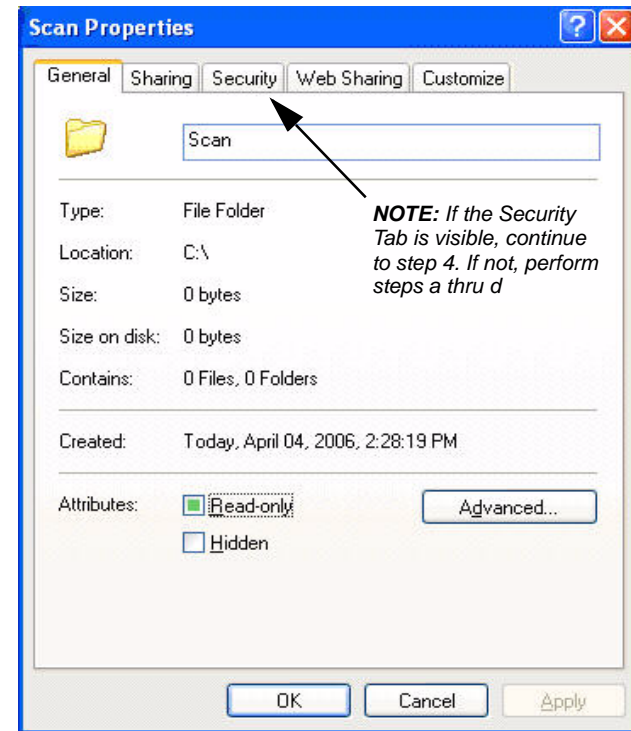


Figure 3 (Scan Properties (General))

4. Select the **Sharing** Tab, select the **Share this folder** radio button and click the **Permissions** button. (If the Sharing tab is not displayed, go to 10) (Figure 4)

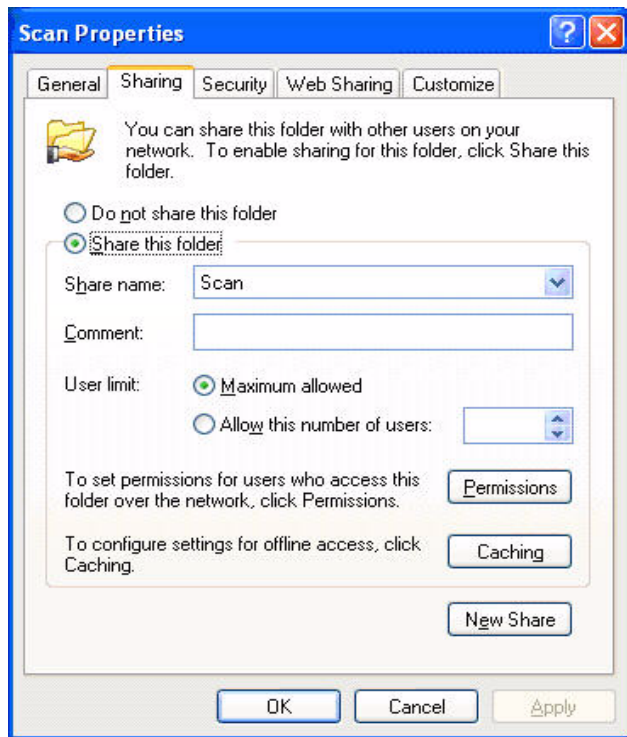


Figure 4 (Scan Properties (Sharing))

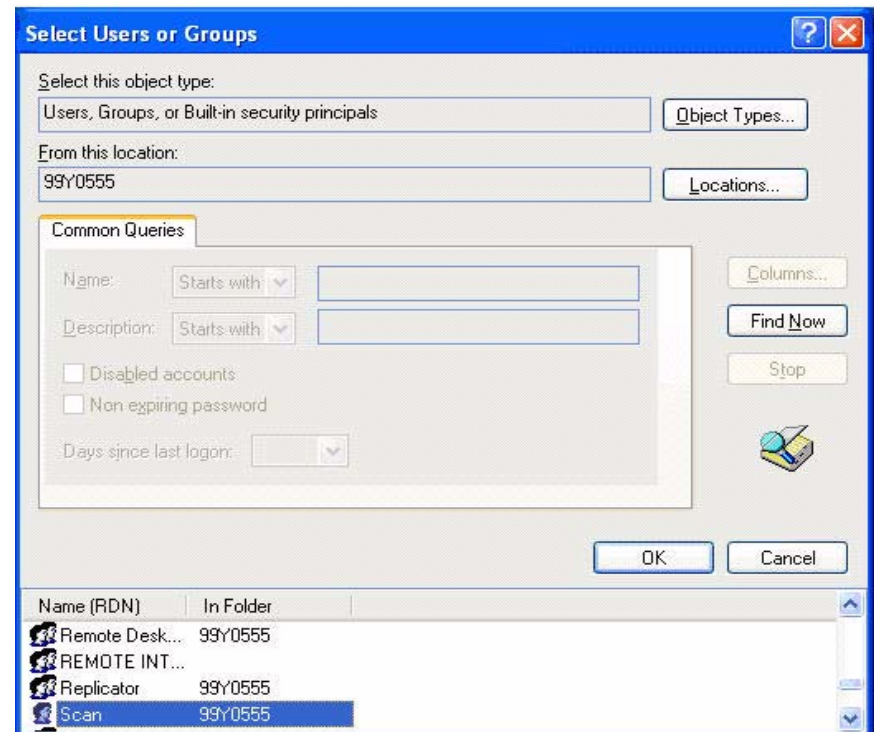


Figure 5 (Select Users or Groups)

5. Select the **Add** button and then select the **Advanced** button.
6. Select **Find Now**. When the user list is displayed, highlight the user that you just created (Figure 5).
 - If your User is not in the list, Select the **Locations** button, find the name of your PWS, (normally the top item) highlight it and select **OK**. Return to step 6. (Remember your PWS name for later.)
7. Select **OK** twice
8. You should be at the Permissions window for your folder. Check the box(es) to allow **Change** and **Read** permissions for your user account (Figure 6).

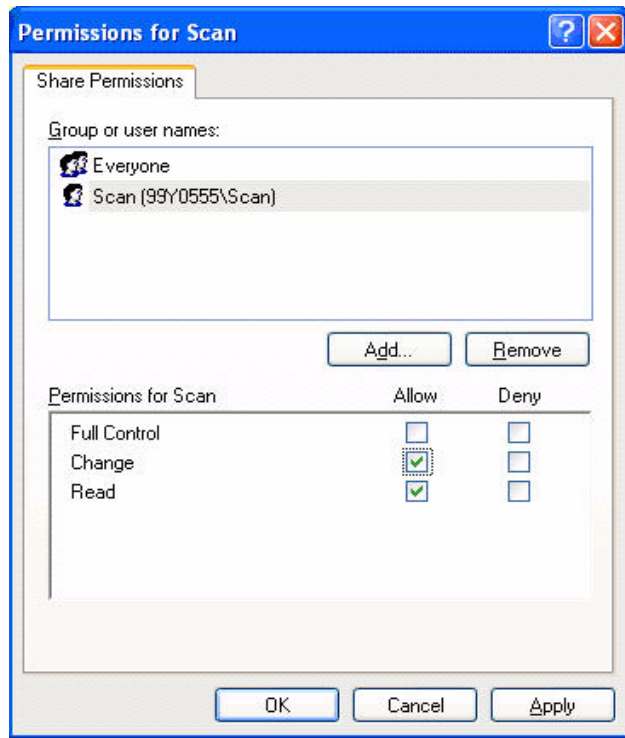


Figure 6 (Permission for Scan)

9. Select **Apply** and then **OK**.
10. Click the **Security** tab in the Scan folder properties window.
11. If your new user account is visible in the upper text box, Highlight it and then check the boxes to allow all permissions to the folder.
12. If your user account is not listed,
 - a. Select **Add, Advanced,** and **Find Now**.
 - b. Select your new user from the list displayed.
 - If your user is not displayed, Select **Locations**, find the name of your PWS, (top item in list) highlight it and select **OK**. Select **Find Now** – your new user should now be in the list. Highlight the user.
 - c. Select **OK** twice and then check the **Full Control** box to allow all permissions to the folder.
13. Select **Apply** and **OK**.
14. The Scan folder should now be available to accept Scanned files via the SMB protocol.

Preparing the WC 7132

TCP/IP Configuration

Print and save a system settings list to determine the IP configuration of the machine and to use for restoring the settings later. The TCP/IP settings can be found on page 3 under the heading **Communication Settings** in the **TCP/IP** section.

If the selection for **Get IP Address** is set to **DHCP/Autonet**, go to step 5.

If the selection for **Get IP Address** is not set to **DHCP/Autonet**, start at step 1.

1. On the Machine UI, press the Login button and enter the tools password *five one's* (11111) and press **Confirm** on the touch screen.
2. Select **System Settings/System Settings/Network Settings/Protocol Settings** on the LCD touch screen.
3. Select **Get IP Address and then Change Settings**.
4. Select the button for **DHCP/Autonet**. Select **Save**, then **Close** several times and then **Exit** to leave the tools mode.
5. Power off the WC 7132 and disconnect the customer's network cable from the machine. Power the machine back on.
6. Connect the PWS to the machine via a network crossover cable. Ensure the PWS is powered on.
7. Wait a minute or so for the two devices to establish a connection before proceeding to the next section.

Scan to the PWS via SMB

1. From the machine UI, press the **All Services** button.
2. Select **Scan to FTP/SMB** on the touch screen:
 - If the selection is not available, it can be programmed in tools in the following path; **System Settings/ System Settings/Common Settings/Screen-Button Settings/ All Services**.
3. The Scan to FTP/SMB window displays the Transfer Protocol to be used for scanning. If it is set to SMB continue to step 4. If set to FTP perform step a.
 - a. Press the **FTP** button. In the next screen, press **SMB** and press **Save**.
4. Select **Browse**
 - a. If a communication error occurs, exit out of **Scan to FTP/SMB**, wait 30 seconds and start from step 1 again.
5. When the connection is established, the window will display any available workgroups found on the network. Select the PWS's workgroup and press **Next**.
 - To find the PWS workgroup name, right-click **MyComputer**, select **Properties** and click the **Computer Name** tab.
6. Computers registered within the selected workgroup will be displayed on the next screen. Select your PWS Name and press **Next**.
7. Enter the User name by selecting the **User Name** button. The LCD will display a Keyboard to be used for input. When finished, press **Save**. Enter the Password in the same fashion.

- a. The user name and password are the same as the user name and password that was created on the PWS earlier in this procedure.
 - b. The User name and Password are case-sensitive.
 - c. You can enter any special characters by selecting the button for **More Characters** on the keyboard for entering the Password.
8. Select **Confirm** in the window displaying your selections.
 9. A window may be displayed showing any shared folders on the PWS, select your scan folder and press **Save**.
 10. When the **Ready to Scan** message is displayed, insert a document in the Document handler and press the green **Start** button.

Confirm the File Transfer

To confirm that the file transfer worked;

1. Browse to your scan folder on the PWS.
2. A new folder should be displayed in the Scan folder
3. Open the folder to see the contents. Most image files (PDF, Jpeg, tiff) can be opened by double-clicking them. Open the file and compare it to the document that was scanned.

The existence of the image file in the scan folder demonstrates the ability of the machine to scan the document, convert the scanned image into a file, and transport the file via a network connection to a location external to the machine. Though this procedure verifies SMB transfer, the basic functions are the same for FTP and E-mail.

At this point, scan problems that occur when connected to the customer's network are most likely to be caused by configuration or setup problems that should be supported via the customer IT personnel, the Xerox Customer Support Center, or Xerox Network Analysts.

Remember to change the WC 7132 network configuration back to the settings shown on the saved System Settings list. Use the procedure shown in Preparing the WC 7132 to find the entry point for making the changes.

GP 15 Clearing a 092-310 Fault Code (ADC fail)

Procedure

The following NVM locations that are related to 092-310 Fault Code (ADC fail):

Table 1

NVM location	Description
752-095	ADC Sensor failure
752-096	ADC shutter is kept opened (a failure reported when ADC shutter does not close)
752-097	ADC shutter is kept closed (a failure reported when ADC shutter does not open)
752-098	A failure related to Yellow TC (Toner Concentration) patch
752-099	A failure related to Magenta TC (Toner Concentration) patch
752-100	A failure related to Cyan TC (Toner Concentration) patch
752-101	A failure related to Black TC (Toner Concentration) patch
752-102	A failure related to Yellow ADC patch
752-103	A failure related to Magenta ADC patch
752-104	A failure related to Cyan ADC patch
752-105	A failure related to Black ADC patch
752-106	A failure related to Yellow patch density while performing long setup operation
752-107	A failure related to Magenta patch density while performing long setup operation
752-108	A failure related to Cyan patch density while performing long setup operation
752-109	A failure related to Black patch density while performing long setup operation
752-121	The count of ADC fails
752-094	ADC Sensor failure (a failure reported when the count of ADC related fails is reached to a specified number of times)

1. The NVM location 752-121 is incriminated by 1 each time any failures of 752-095 to 752-109 occurs. When the count of 752-121 exceeds "3", the fault code 092-310 (ADC fail) is displayed on the UI and the machine stops. The fault code 092-310 can be cancelled by machine power off/on. After the fault code 092-310 is cleared, the machine will allow printing of 100 more pages and performs ADC setup operations. If there are no ADC related failures occurring while printing 100 pages, then the machine will be resumed. However, the count of 752-121 will not be cleared. If there is an ADC related failure occurring while printing 100 pages, then the machine will display the fault code 092-310, and fault code 092-310 will not be cleared by machine power off/on.
2. If the toner condition is normal status (i.e. when toner is not empty status): when the count of NVM value 752-121 exceeds "50", then the machine stops, and the fault code 092-310 cannot be cleared. Then, "1" will be set to the NVM location 752-094.
If toner condition is pre-near status (i.e. order toner status): when the count of 752-121 exceeds "8", then the machine stops, the fault code 92-310 cannot be cleared. Then, "1" will be set to the NVM location 752-094.

When "1" is set to 752-094, the NVM 752-121 needs to be cleared to "0". When, NVM 752-121 is cleared to "0", NVM 752-094 will be automatically cleared to "0". Then, the fault code 092-310 can be cleared.

However, to resolve the fault code 092-310 completely, you need to find out the cause of any failure of NVM locations 752-095 to 752-109.

Procedure Diagram

(Figure 1)

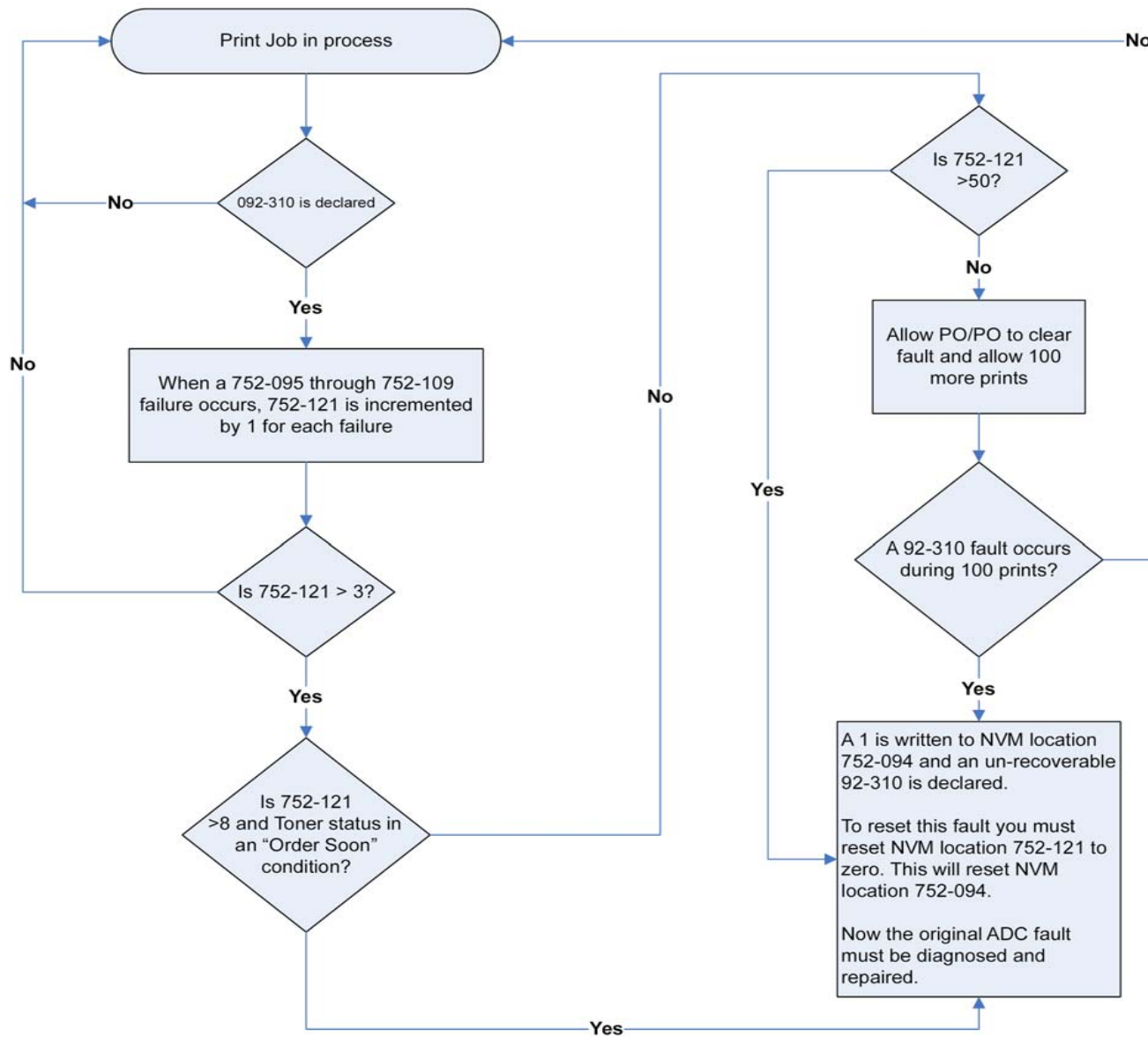


Figure 1 Procedure Diagram

Space Requirements

Installation space requirements are shown in Figure 1 (WorkCentre 7132 w/out Finisher), Figure 2 (WorkCentre 7132 w/Finisher).

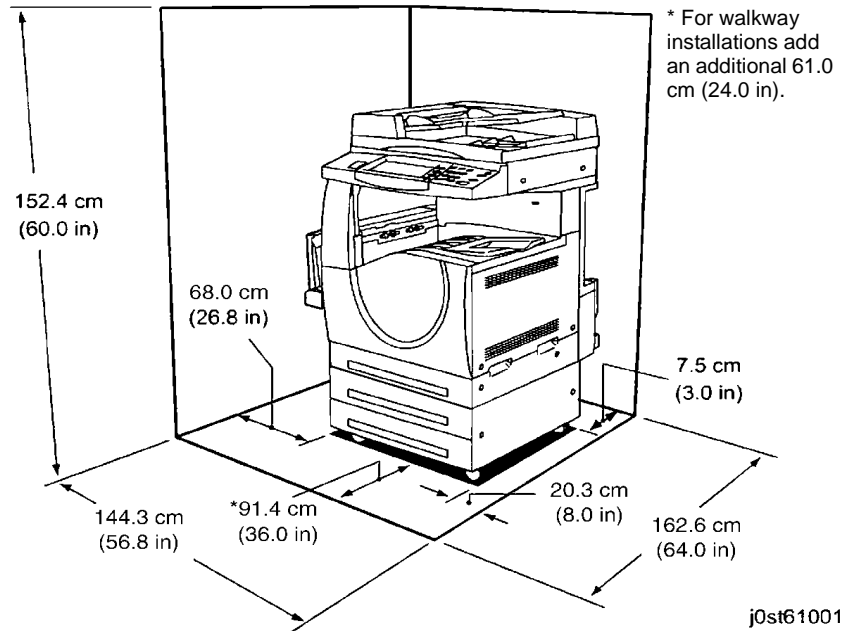


Figure 1 Space Requirement - WorkCentre 7132 w/out Finisher

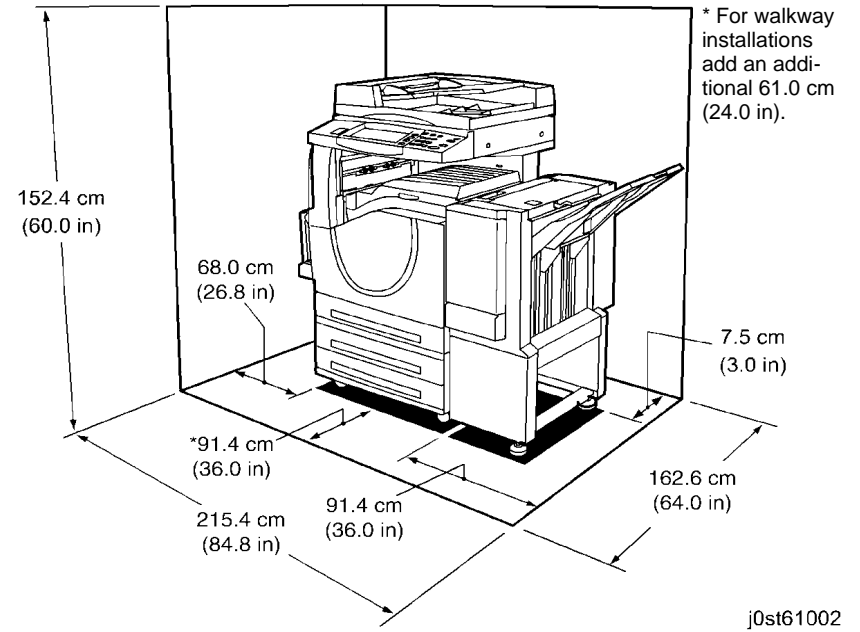


Figure 2 Space Requirement - WorkCentre 7132 w/Finisher

Product Specs.

Product Codes

Table 1 Product Codes WorkCentre 7132

No.	Item	Product Code
1	IOT/IIT 110V With OCT, 520 sheet tray, MSI, Duplex	AYX
2	IOT/IIT GSA 110V WITH OCT, 520 sheet tray, MSI, Duplex	AYXN
3	IOT/IIT 110V With DADF + TTM	AYW
4	IOT/IIT 110V With DADF + Stand	AYV
5	IOT/IIT 110V With Platen + Stand	AYU
6	IOT/IIT 220V WITH OCT, 520 sheet tray, MSI, Duplex	AYN
7	IOT/IIT 220V With DADF + TM	AAP
5	2 TM	59F
6	TTM	00G
7	Finisher	00H

Component Weights

Table 2 Component Weights

Component	Weight (approx.)
DC (Platen)	60 kg (132 lb.)
IIT and Platen	15 kg (33 lb.)
2 Tray Module	23 kg (51 lb.)
Tandem Tray Module	31 kg (68 lb.)
Exit2	2 kg (4 lb.)
Duplex Module	1.8 kg (4 lb.)
DADF	9.8 kg (30 lb.)
Finisher	30 kg (66 lb.)

Paper Capacities

Table 3 Paper Capacities

Specification	Paper Trays 1 - 3	Tray 5 (Bypass)
Paper Sizes	<ul style="list-style-type: none"> Min: 139.7W x 182L Max: 297W x 432Lmm 	Paper <ul style="list-style-type: none"> Min: 89W x 98.4L mm (postcard) Max: 297W x 431.8L mm/12 x 19 in.
Paper Weights	Range: 60 - 216 gsm (Tray 2 and 3) Tray 1: 60 - 105 gsm	Range: 60 - 216 gsm

Table 3 Paper Capacities

Specification	Paper Trays 1 - 3	Tray 5 (Bypass)
Capacities 20 lb. (80 gsm)	TTM: 2620 sheets total: <ul style="list-style-type: none"> Tray 1: 520 sheets Tray 2: 900 sheets Tray 3: 1200 sheets 2TM: 1560 sheets total: <ul style="list-style-type: none"> Tray 1: 520 sheets Tray 2: 520 sheets Tray 3: 520 sheets 	100 sheets

Copy Speed

- Plain paper; simplex; fed from Tray 1 - 3
 - Letter size LEF: 8/32ppm
 - Letter size SEF: 8/16ppm
 - Legal size: 8/32ppm
 - A3/11x17 in.: 4/16ppm

FCOT/FPOT

First Copy Output Time (original on platen); 8.5" x 11" (A4); Tray 1;

- 27 sec. or less for color
- 16 sec. or less for monochrome

First Print Output Time (does not include ESS process time for prints); 8.5" x 11" (A4); Tray 1;

- 26 sec. max for color
- 15 sec. max for monochrome

Voltage Requirements

- Single phase (two wires plus ground)
- 110 - 127 VAC/60 Hz (99 - 135 VAC, 50/60 +/- 3 Hz)
- 220 - 240 VAC/50 Hz (198 to 254 VAC, 50/60 +/- 3 Hz)

Power Consumption (5 minute average)

- Machine Running: 1.33 kVA - NASG; 1.92 kVA ESG max.
- off Mode 1.5W~3.2W (Reference)

Environmental Data and Requirements

Ambient Temperature and Humidity requirement:

- Minimum: 10° C/50°F at 15% humidity
- Maximum: 32° C/90°F at 70% (28° C/82°F at 85% humidity) humidity

IIT/DADF Specifications

Table 4 DADF Specifications

Document Size: Platen	Max size: 297 x 420 mm, 11 x 17 in. Max scannable area: 297 x 420 mm
-----------------------	---

Table 4 DADF Specifications

Document Size: DADF	5.5" x 8.5" (A5) LEF to 11" x 17" SEF (A3) Max: 297 x 432 mm Min: 139.7 x 210 mm
Document Weight: DADF	Min: 50 gsm/16lb Max: 128 gsm/32lb (Duplex mode)
Document Capacity: DADF	50 sheets 90 gsm.
R/E Capability:	Variable Percentages: 25% to 400% in 1% increments Preset Percentages: <ul style="list-style-type: none"> • 25% • 50% • 64.7% (11 x17 in. to 8.5 x 11 in.) • 78.5% (8.5 x 14 in. to 8.5 x 11 in.) • 100% • 129.4% (8.5 x 11 in. to 11 x17 in.) • 220% (3.5 x 5 in. to 8.5 x 11 in.) • 400% Presets can be changed in Tools mode.

Common Tools

Table 1 Common Tools

Description	Part Number
Screw Driver (-) 3 x 50	600T 40205
Screw Driver (+) 6 x 100	600T 01989
Screw Driver (+) NO.1	499T 00356
Stubby Driver (+) (-)	600T 40210
Screw Driver (-) 100MM	499T 00355
Spanner and Wrench 5.5 x 5.5	600T 40501
Spanner and Wrench 7x 7	600T 40502
Hex Key Set	600T 02002
Box Driver 5.5MM	600T 01988
Side Cutting Nipper	600T 40903
Round Nose Pliers	600T 40901
Digital Multi-meter Set	600T 02020
Interlock Cheater	600T 91616
Silver Scale 150MM	600T 41503
CE Tool Case	600T 01901
Magnetic Screw Pick-up Tool	600T 41911
Scriber Tool	600T 41913
Magnetic pickup	600T 41911
Loupe	600T 42008
Flash Light	600T 01824
Brush	600T 41901
Tester Lead Wire (red)	600T 09583
Tester Lead Wire (black)	600T 02030
Spring Hook (T Style)	600T 41907

Product Tools and Test Patterns

Table 1 Tools and Test Patterns

Description	Part Number
Geometric Test Pattern	082E 08220
HVPS test probe (1/10X)	600T 01653
HVPS test probe adapter	600T 01996
Copy Paper Carrying Case	600T 01999
Copy Paper Zip Lock Bag	600T 02000
Colotech + - 90 gsm - A3	003R 94642
Service and Machine NVM Log	700P 97436
Serial cable	600T 02058
USB cable, 6 ft./2 meter Firmware Upload	600T02231
Network Interface (Crossover) cable	600T 02252
Parallel printer cable	117E 19340
PWS power cord adapter	600T 02018
L Probe	600T 02177
Machine Resident Disk Kit (Machine Settings Floppy)	300K 63850
A3 (11" x 17") Test Pattern	082E 02000
A3 Test Pattern	082P 521
A4 Test Pattern	082E 02010
8.5" x 11" Test Pattern	082E 02020
8.5" x 14" Test Pattern	082P 524
SIR 542.00 Solid area density Scale	082E 08230
SIR 494.00 Visual Scale	082P 00448

Log Book Storage

A protected out-of-sight space exists at the left front corner, to the left of the center output tray. Fold the log and insert into this space.

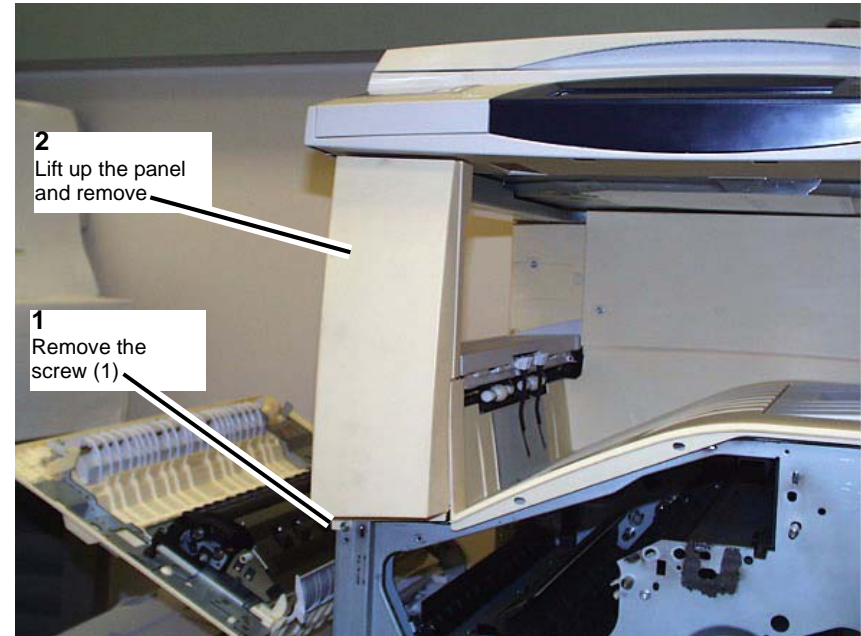


Figure 1 Log Book Storage Compartment

Cleaning Materials

Table 1 Cleaning Materials

Description	NASG Part Number	ESG Part Number
Cleaning fluid (8oz., Formula A)	043P 00048	008R 90034
Film remover (8 oz.)	043P 00045	008R 90176
Lens/mirror cleaner	043P 00081	008R 90178
Lint-free (white) cleaning cloth	019P 03025	019P 03025
Lint-free Optics cleaning cloth	499T 90417	499T 90417
Cleaning towels	035P 03191	600S 04372
Drop cloth	035P 01737	035P 01737
Cotton Swab	035P 02162	035P 02162

Machine Consumables

Table 1 Toner Cartridge

Name	Part Number
Black Toner (Metered)	006R 01262 World wide
Yellow Toner (Metered)	006R 01263 World wide
Magenta Toner (Metered)	006R 01264 World wide
Cyan Toner (Metered)	006R 01265 World wide
Black Toner (Sold)	006R 01266 NA/ESG
Yellow Toner (Sold)	006R 01267 NA/ESG
Magenta Toner (Sold)	006R 01268 NA/ESG
Cyan Toner (Sold)	006R 01269 NA/ESG
Black Toner (Sold)	006R 01270 DMO/W
Yellow Toner (Sold)	006R 01271 DMO/W
Magenta Toner (Sold)	006R 01272 DMO/W
Cyan Toner (Sold)	006R 01273 DMO/W

Table 2 (Xero) Drum Cartridge

Part Number
013R 00622

Table 3 Staple Cartridge

Part Number
008R 12915

Table 4 Waste Toner Bottle

Part Number
008R13021

Table 5 Fuser 110V

Part Number
008R13022

Table 6 IBT Belt Cleaner

Part Number
001R00588

Table 7 2nd BTR

Part Number
008R13026

Table 8 Odor Filter Kit

Part Number
008R13025

Glossary of Terms

Table 1

Term	Description
A3	Paper size 297 millimeters (11.69 inches) x 420 millimeters (16.54 inches).
A4	Paper size 210 millimeters (8.27 inches) x 297 millimeters (11.69 inches).
AC	Alternating Current is type of current available at power source for machine.
ACT	Advanced Customer Training: teaches customers to perform some of service that is normally performed by Xerox Service Representative.
A/D	Analog to Digital refers to conversion of signal.
ADJ	Adjustment Procedure
ARZ	Argentina
Bit	Binary digit, either 1 or 0, representing an electrical state.
CCD	Charge Coupled Device (Photoelectric Converter)
CD	1: Circuit Diagram; 2: Compact Disc
Chip	Integrated Circuit (IC)
CRU	Customer Replaceable Unit
CVT	Constant Velocity Transport
DADF	Duplexing Automatic Document Feeder
DC	Direct Current is type of power for machine components. Machine converts AC power from power source to DC power.
dC	Diagnostics Code.
DHCP	Dynamic Host Configuration Protocol
DIS	Disconnect
DMA	Direct Memory Access
DMM	Digital Multimeter is generic name for meter that measures voltage, current, or electrical resistance.
DMO	Developing Markets Operations
DNS	Domain Name System
DPI	Dots Per Inch
DSL	Digital Subscriber Line - Digital telephone line signal in non-voice frequency range
DSN	Database Source Name
DTMF	Dual-tone multifrequency, also known as Touch Tone
Duplex	2-sided printing or copying
EHLO	Extended HELLO
EME	Electromagnetic Emissions are emitted from machine during normal operation and power of these emissions are reduced by machine design features.
ESD	Electrostatic Discharge - A transfer of charge between bodies at different electrostatic potential.
ESG	European Solutions Group - also referred to as XE (Xerox Europe)
ESMTP	Extended Simple Mail Transfer Protocol
FIFO	First In First Out
FS	Fast Scan (direction) - Inboard to Outboard

Table 1

Term	Description
FTT	Fail To Train - Sent by receiving Fax - request to reduce send rate
GND	Ground
HDD	Hard Drive
HFSI	High Frequency Service Item
HELLO	Hello (HELO) identifies sender-SMTP to the receiver-SMTP
HVPS	High Voltage Power Supply
Hz	Hertz (Cycles per second)
IIT	Image Input Terminal - Scanner/CCD portion of the machine
I/O	Input/Output
IOT	Image Output Terminal - ROS/Xero/paper handling/fusing portion of the machine
IQ	Image Quality
JBIG	Joint Bi-level Image Experts Group, an image compression scheme
JCL	Job Control Language
KBPS	Kilo Bytes Per Second
KC	1000 copies
KO	Key Operator
LCD	Liquid Crystal Display
LDAP	Lightweight Directory Access Protocol
LE	Lead Edge of copy or print paper, with reference to definition of term TE
LED	Light Emitting Diode
LEF	Long Edge Feed
LTR	Letter size paper (8.5 x 11 inches)
LUT	Look Up Table - array of NVM locations that store process control data
LVPS	Low Voltage Power Supply
LZW	Lempel, Ziv, Welch, an image compression scheme
MF	Multi-Function
MN	Multinational
NIC	Network Interface Card
NA	North America
NAAO	North American Agent Operations
NARS	North American Reseller Sales
NG	Not Good, No Good
NO	Number
NVM	Non Volatile Memory
OEM	Original equipment manufacturer
OGM	On-going Maintenance
Panther	Continuous data protection protocol or utility
PC	Personal Computer
PCL	Printer Control Language
PDF	Portable Document Format
PDL	Page Description Language

Table 1

Term	Description
Phase A, B, C, D, E	Phase A is Fax call set up, Phase B is pre-message processing, Phase C is message transmission, Phase D is post message protocols, Phase E is Release Fax call
PJ	Plug Jack (electrical connections)
PJL	Printer Job Language
PL	Parts List
PO	Part of (Assembly Name)
POP	Post Office Protocol
PWB	Printed Wiring Board
PWS	Portable Workstation for Service
RAM	Random Access Memory
RAP	Repair Analysis Procedure for diagnosis of machine status codes and abnormal conditions.
R/E	Reduction/Enlargement refers to features selection or components that enable reduction or enlargement.
REP	Repair Procedure for disassembly and reassembly of component on machine
RIS	Raster Input Scanner
ROM	Read Only Memory
ROS	Raster Output Scanner. Device that transfers digitally processed image, using laser light, to photoreceptor.
SAD	Solid Area Density
SCP	Service Call Procedure
SEF	Short Edge Feed
Self-test	An automatic process that is used to check Control Logic circuitry. Any fault that is detected during self-test is displayed by fault code or by LEDs on PWB.
SIMM	Single Inline Memory Module used to increase printing capacity
SMB	Server Message Block
SMTP	Simple Mail Transfer Protocol
Simplex	Single sided copies
SSL	Secure Socket(s) Link
SUB	Sub-addressed - indicates that the following facsimile information field (FIF) information is sub-addressed in the called subscriber's domain.
SW	Software
TCP/IP	Transmission Control Protocol/Internet Protocol
TE	Trail Edge of copy or print paper, with reference to definition of term LE
TIFF	Tag Image File Format
UM	Unscheduled Maintenance
UI	User Interface
USB	Universal Serial Bus
V.8	A part of the initial Fax transmission phase when attributes are worked between sending and receiving fax machines
W/	With - indicates machine condition where specified condition is present
W/O	Without - indicates machine condition where specified condition is not present

Table 1

Term	Description
XBRA	Xerox Brazil
XE	Xerox Europe - also referred to as ESG (European Solutions Group)
XING	Xerox International Group
XLA	Xerox Latin America
XMEX	Xerox Mexico
XOG	Xerox Office Group
XPJL	X Printer Job Language

Change Tag Introduction

Important modifications to the copier are identified by a tag number which is recorded on a tag matrix. The tag matrix for the IOT (Processor) is molded into the inside of the Front Door.

This section describes all of the tags associated with the copier, as well as multinational applicability, classification codes, and permanent or temporary modification information.

Classification Codes

A tag number may be required to identify differences between parts that cannot be interchanged, or differences in diagnostic, repair, installation, or adjustment procedures.

A tag number may also be required to identify the presence of optional hardware, special non-volatile memory programming, or whether mandatory modifications have been installed. Each tag number is given a classification code to identify the type of change that the tag has made. The classification codes and their descriptions are listed in the table below.

Table 1

Classification Code	Description
M	Mandatory tag
N	Tag not installed in the field
O	Optional tag
R	Repair tag

TAG: 1

CLASS: M

USE:

MFG SERIAL NUMBERS:

NAME: Front Auger

PURPOSE: To replace the defective Front Auger.

KIT NUMBER: 605K91980

PARTS LIST ON: PL 6.1

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7.3.14 Wire Net DC COM (+5VRTN)-1	7-52
7.3.15 Wire Net DC COM (+5VRTN)-2	7-53
7.3.16 Wire Net DC COM (+5VRTN)-3	7-54
7.3.17 Wire Net DC COM (+5VRTN)-4	7-55
7.3.18 Wire Net DC COM (+5VRTN)-5	7-56
7.3.19 Wire Net DC COM (+5VRTN)-6	7-57
7.3.20 Wire Net DC COM (+5VRTN)-7	7-58
7.3.21 Blank	7-59
7.3.22 Wire Net +24VDC-1	7-60
7.3.23 Wire Net +24VDC-2	7-61
7.3.24 Wire Net +24VDC-3	7-62
7.3.25 Wire Net +24VDC-4	7-63
7.3.26 Wire Net +24VDC-5	7-64
7.3.27 Wire Net +24VDC-6	7-65
7.3.28 Wire Net DC COM (+24VRTN)-1	7-66
7.3.29 Wire Net DC COM (+24VRTN)-2	7-67
7.3.30 Wire Net DC COM (+24VRTN)-3	7-68
7.3.31 Blank	7-69
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7.3.33 Finisher Wire Net DC COM(+5VRTN).....	7-71
7.3.34 Finisher Wire Net +24VDC.....	7-72
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Plug/Jack Locations

How to use the Plug/Jack Location List

The Plug/Jack Location List below is provided to locate plugs, jacks, or other terminating devices. Locate the desired termination device in the first column (Connector Number) of the list. Refer to the second column (Figure Number) to determine the figure number of the electrical termination device. Refer to the (Item Number) column to determine the item number in the adjacent Figure Number column. The fourth column supplies the title of the Figure.

NOTE: Connectors numbered "CN" and "FS" are listed after the "P and J" connectors.

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J1	Figure 1	8	Control Panel
P/J1	Figure 16		Power Unit
P/J2	Figure 16		Power Unit
P/J2	Figure 25	10	Finisher Rear Location
P/J3	Figure 16		Power Unit
P/J4	Figure 16		Power Unit
J11/T11	Figure 16		Power Unit
J12/T12	Figure 16		Power Unit
P/J50	Figure 15		AC Input
P/J56	Figure 3		IOT Front View
P/J57	Figure 3		IOT Front View
P/J68	Figure 3		IOT Front View
P/J69	Figure 3		IOT Front View
FS72	Figure 15		AC Input
FS73	Figure 15		AC Input
FS74	Figure 15		AC Input
FS75	Figure 15		AC Input
P/J100	Figure 9	2	L/H Lower, Tray1 Feeder
P/J101	Figure 9	3	L/H Lower, Tray1 Feeder
P/J101A	Figure 17	2	Tray2/3 Feeder(2TM)
P/J101A	Figure 19	2	Tray2/3 Feeder(TTM)
P/J101B	Figure 17	2	Tray2/3 Feeder(2TM)
P/J101B	Figure 19	2	Tray2/3 Feeder(TTM)
P/J102A	Figure 17	3	Tray2/3 Feeder(2TM)
P/J102A	Figure 19	3	Tray2/3 Feeder(TTM)
P/J102B	Figure 17	3	Tray2/3 Feeder(2TM)
P/J102B	Figure 19	3	Tray2/3 Feeder(TTM)
P/J103A	Figure 17	12	Tray2/3 Feeder(2TM)
P/J103A	Figure 19	9	Tray2/3 Feeder(TTM)

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J103B	Figure 17	12	Tray2/3 Feeder(2TM)
P/J103B	Figure 19	9	Tray2/3 Feeder(TTM)
P/J103	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J105	Figure 9	4	L/H Lower, Tray1 Feeder
P/J105	Figure 9	9	L/H Lower, Tray1 Feeder
P/J106	Figure 8		Regi Sensor, Regi Clutch
P/J107	Figure 7	9	Duplex Unit, MSI
P/J108	Figure 7	10	Duplex Unit, MSI
P/J109	Figure 8		Regi Sensor, Regi Clutch
P/J111	Figure 5	8	Exit2
P/J112	Figure 5	6	Exit2
P/J115	Figure 5		Exit2
P/J116	Figure 5	2	Exit2
P/J117	Figure 13		IOT Rear Location
P/J118	Figure 13		IOT Rear Location
P/J119	Figure 9	7	L/H Lower, Tray1 Feeder
P/J120	Figure 6	1	No.1 OCT, Fuser Assembly
P/J121	Figure 6		Fuser
P/J123	Figure 7	2	Duplex Unit, MSI
P/J124	Figure 7	1	Duplex Unit, MSI
P/J125	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J126	Figure 11		Sensor Bar, Waste Container
P/J127	Figure 3		IOT Front View
P/J128	Figure 14		MCU PWB
P/J133	Figure 9	10	L/H Lower, Tray1/2 Feeder
P/J134	Figure 3		IOT Front View
P/J135	Figure 6		Fuser
P/J136	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J137	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J138	Figure 3		IOT Front View
P/J139	Figure 3		IOT Front View
P/J140	Figure 4		ROS Unit
P/J141	Figure 3		IOT Front View
P/J142	Figure 3		IOT Front View
P/J143	Figure 3		IOT Front View
P/J144	Figure 3		IOT Front View
P/J160	Figure 4		ROS Unit
P/J200	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J201	Figure 9	1	L/H Lower, Tray1 Feeder
P/J202	Figure 8		Regi Sensor, Regi Clutch

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J203	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J205	Figure 7	7	Duplex Unit, MSI
P/J207	Figure 5	4	Exit2
P/J208	Figure 5	5	Exit2
P/J209	Figure 5	7	Exit2
P/J210	Figure 5	3	Exit2
P/J211	Figure 13		IOT Rear Location
P/J212	Figure 7	6	Duplex Unit, MSI
P/J213	Figure 13		IOT Rear Location
P/J214	Figure 13		IOT Rear Location
P/J215	Figure 13		IOT Rear Location
P/J217	Figure 13		IOT Rear Location
P/J218	Figure 13		IOT Rear Location
P/J219	Figure 4		ROS Unit
P/J220	Figure 5	1	Exit 2
P/J220A	Figure 17	1	Tray2/3 Feeder(2TM)
P/J220A	Figure 19	1	Tray2/3 Feeder(TTM)
P/J220B	Figure 17	1	Tray2/3 Feeder(2TM)
P/J220B	Figure 19	1	Tray2/3 Feeder(TTM)
P/J221	Figure 13		IOT Rear Location
P/J222	Figure 13		IOT Rear Location
P/J226	Figure 13		IOT Rear Location
P304	Figure 10		ESS
J330	Figure 10		ESS
J331	Figure 10		ESS
J333	Figure 10		ESS
J334	Figure 10		ESS
P/J136	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J137	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
J338	Figure 10		ESS
J340	Figure 10		ESS
J343	Figure 10		ESS
J344	Figure 10		ESS
P351	Figure 10		ESS
P380	Figure 10		ESS
P353	Figure 12	2	Fax Box Assembly
P354	Figure 12	3	Fax Box Assembly
P356	Figure 12	4	Fax Box Assembly
P/J380	Figure 12	1	Fax Box Assembly
J356	Figure 12	4	Fax Box Assembly

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
J359	Figure 12	5	Fax Box Assembly
J360	Figure 12	6	Fax Box Assembly
P/J380	Figure 12		FAX Box
P382	Figure 10		ESS
P/J387	Figure 10		ESS
P/J388	Figure 10		ESS
P/J389	Figure 14		MCU PWB
P/J390	Figure 14		MCU PWB
P/J400	Figure 14		MCU PWB
P/J401	Figure 14		MCU PWB
P/J402	Figure 14		MCU PWB
P/J405	Figure 14		MCU PWB
P/J406	Figure 14		MCU PWB
P/J407	Figure 14		MCU PWB
P/J408	Figure 14		MCU PWB
P/J409	Figure 14		MCU PWB
P/J410	Figure 14		MCU PWB
P/J411	Figure 14		MCU PWB
P/J412	Figure 14		MCU PWB
P/J413	Figure 14		MCU PWB
P/J415	Figure 14		MCU PWB
P/J416	Figure 14		MCU PWB
J416	Figure 25	8	Finisher Rear Location
P/J417	Figure 14		MCU PWB
P/J420	Figure 14		MCU PWB
P/J421	Figure 14		MCU PWB
P/J422	Figure 14		MCU PWB
P/J423	Figure 14		MCU PWB
P/J424	Figure 14		MCU PWB
P/J425	Figure 14		MCU PWB
P/J426	Figure 14		MCU PWB
P/J450	Figure 14		MCU PWB
P/J451	Figure 14		MCU PWB
P/J452	Figure 14		MCU PWB
P/J453	Figure 14		MCU PWB
P/J500	Figure 3		HVPS, IOT Front View
P/J502	Figure 25	11	Finisher Rear Location
P/J505	Figure 25	12	Finisher Rear Location
P/J510	Figure 16		Power Unit
P/J511	Figure 16		Power Unit

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J512	Figure 16		Power Unit
P/J513	Figure 16		Power Unit
P/J514	Figure 16		Power Unit
P/J540	Figure 7	3	Duplex Unit, MSI
P/J541	Figure 7	4	Duplex Unit, MSI
P/J541	Figure 18	2	2TM Rear Location
P/J541	Figure 20	1	TTM Rear Location
P/J542	Figure 7	5	Duplex Unit, MSI
P/J548	Figure 18	1	2TM Rear Location
P/J548	Figure 20	11	TTM Rear Location
P/J549	Figure 18	7	2TM Rear Location
P/J549	Figure 18	9	2TM Rear Location
P/J549	Figure 20	10	TTM Rear Location
P/J549	Figure 20	12	TTM Rear Location
P/J552	Figure 18	8	2TM Rear Location
P/J552	Figure 20	9	TTM Rear Location
P/J554	Figure 18	3	2TM Rear Location
P/J554	Figure 20	2	TTM Rear Location
P/J223	Figure 13	5	IOT Rear Location
P/J601	Figure 11		Sensor Bar, WasteContainer, IOT Left Side
P/J611	Figure 9	6	L/H Lower, Tray1 Feeder
P/J603	Figure 3		HVPS, IOT Front View
P/J604	Figure 3		HVPS, IOT Front View
P/J605	Figure 8		Regi Sensor, Regi Clutch
P606	Figure 5	10	Exit 2
P/J612	Figure 9	5	L/H Lower, Tray1 Feeder
P/J609	Figure 7	8	Duplex Unit, MSI
P/J610	Figure 7	11	Duplex Unit
P/J611	Figure 9		L/H Lower, Tray1 Feeder
P/J612	Figure 9		L/H Lower, Tray1 Feeder
P/J613	Figure 9		L/H Lower, Tray1 Feeder
P/J614	Figure 6		Fuser
P/J616	Figure 2		IIT
P/J617	Figure 3		HVPS, IOT Front View
P/J619	Figure 16		LVPS
P/J618	Figure 4		ROS Unit
P/J621	Figure 6		Fuser
P/J661A	Figure 17	8	Tray2/3 Feeder(2TM)
P/J661A	Figure 20	4	TTM Rear Location
P/J661B	Figure 17	9	Tray2/3 Feeder(2TM)

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J661B	Figure 19	7	TTM Rear Location
P/J700	Figure 2	11	IIT
P/J702	Figure 2	6	IIT
P/J703	Figure 2	5	IIT
P/J710	Figure 2	14	IIT
P/J719	Figure 2	4	IIT
P/J720	Figure 2	9	IIT
P/J721	Figure 2	1	IIT
P/J722	Figure 2	13	IIT
P/J723	Figure 2	8	IIT
P/J725	Figure 2	2	IIT
P/J727	Figure 2	15	IIT
P/J728	Figure 2	7	IIT
J750	Figure 2	3	IIT
P750	Figure 22	15	DADF 2 of 2
P/J751	Figure 22	16	DADF 2 of 2
P/J752	Figure 22	14	DADF 2 of 2
P/J753	Figure 22	13	DADF 2 of 2
P/J754	Figure 22	12	DADF 2 of 2
P/J755	Figure 22	11	DADF 2 of 2
P/J756	Figure 22	5	DADF 2 of 2
P/J757	Figure 22	4	DADF 2 of 2
P/J758	Figure 22	3	DADF 2 of 2
P/J759	Figure 22	2	DADF 2 of 2
P/J760	Figure 22	1	DADF 2 of 2
P/J761	Figure 22	17	DADF 2 of 2
P/J764	Figure 22	9	DADF 2 of 2
P/J765	Figure 22	10	DADF 2 of 2
P/J766	Figure 21	3	DADF 1 of 2
P/J767	Figure 21	18	DADF 1 of 2
P/J769	Figure 22	8	DADF 2 of 2
P/J770	Figure 22	7	DADF 2 of 2
P/J771	Figure 21	14	DADF 1 of 2
P/J772	Figure 21	15	DADF 1 of 2
P/J774	Figure 21	13	DADF 1 of 2
P/J775	Figure 21	16	DADF 1 of 2
P/J776	Figure 21	17	DADF 1 of 2
P/J777	Figure 21	7	DADF 1 of 2
P/J778	Figure 21	6	DADF 1 of 2
P/J779	Figure 21	5	DADF 1 of 2

Table 1 Plug/Jack List

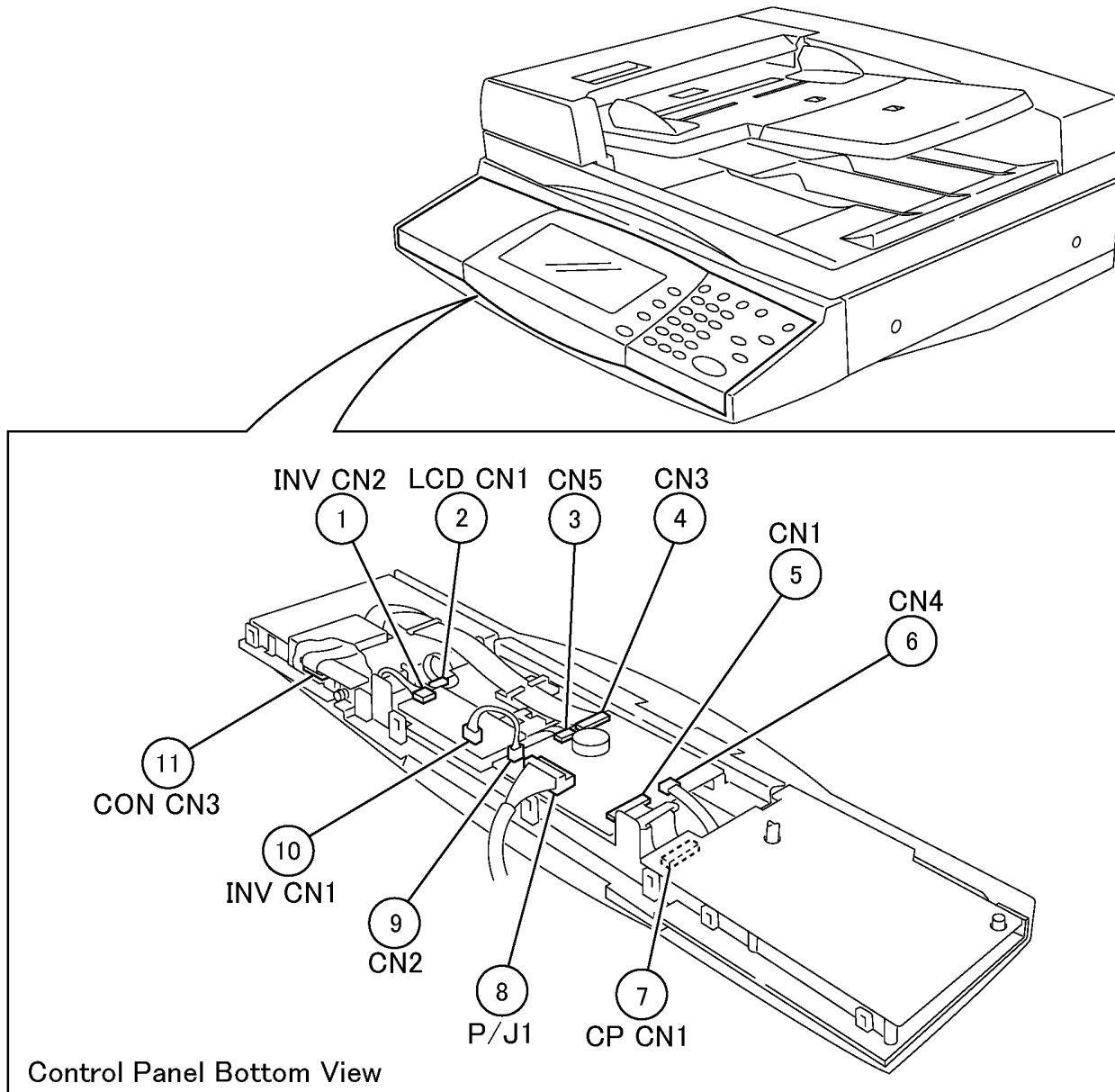
Connector Number	Figure Number	Item Number	Figure Title
P/J780	Figure 21	12	DADF 1 of 2
P/J781	Figure 21	11	DADF 1 of 2
P/J782	Figure 21	10	DADF 1 of 2
P/J785	Figure 22	18	DADF 2 of 2
P/J786	Figure 22	6	DADF 2 of 2
P/J787	Figure 21	9	DADF 1 of 2
P/J788	Figure 21	8	DADF 1 of 2
P/J791	Figure 21	4	DADF 1 of 2
P/J820	Figure 17	4	Tray2/3 Feeder(2TM)
P/J820	Figure 19	5	Tray2/3 Feeder(TTM)
P/J821	Figure 17	7	Tray2/3 Feeder(2TM)
P/J821	Figure 19	6	Tray2/3 Feeder(TTM)
P/J822	Figure 18	5	2TM Rear Location
P/J822	Figure 20	7	TTM Rear Location
P/J824	Figure 17	5	Tray2/3 Feeder(2TM)
P/J824	Figure 19	4	Tray2/3 Feeder(TTM)
P/J825	Figure 17	6	Tray2/3 Feeder(2TM)
P/J825	Figure 20	3	TTM Rear Location
P/J826	Figure 18	6	2TM Rear Location
P/J826	Figure 20	8	TTM Rear Location
P/J841	Figure 18	4	2TM Rear Location
P/J841	Figure 20	5	TTM Rear Location
P/J842	Figure 17	10	Tray2/3 Feeder(2TM)
P/J842	Figure 20	6	TTM Rear Location
P/J869	Figure 25	13	Finisher Rear Location
P/J871	Figure 24	16	Finisher Front Location
P/J7261	Figure 2	10	IIT
P/J7262	Figure 2	12	IIT
P/J8379	Figure 23	2	H-Transport Assembly
P/J8380	Figure 23	1	H-Transport Assembly
P/J8381	Figure 23	3	H-Transport Assembly
P/J8382	Figure 23	4	H-Transport Assembly
P/J8390	Figure 26	4	Finisher PWB
P/J8800	Figure 25	7	Finisher Rear Location
P/J8801	Figure 25	6	Finisher Rear Location
P/J8802	Figure 25	4	Finisher Rear Location
P/J8803	Figure 25	3	Finisher Rear Location
P/J8805	Figure 24	1	Finisher Front Location
P/J8806	Figure 24	4	Finisher Front Location
P/J8807	Figure 24	5	Finisher Front Location

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J8808	Figure 24	6	Finisher Front Location
P/J8809	Figure 24	17	Finisher Front Location
P/J8810	Figure 24	7	Finisher Front Location
P/J8811	Figure 24	11	Finisher Front Location
P/J8812	Figure 24	12	Finisher Front Location
P/J8813	Figure 24	14	Finisher Front Location
P/J8814	Figure 25	2	Finisher Rear Location
P/J8815	Figure 25	1	Finisher Rear Location
P/J8817	Figure 24	10	Finisher Front Location
P/J8818	Figure 24	8	Finisher Front Location
P/J8819	Figure 24	9	Finisher Front Location
P/J8820	Figure 24	15	Finisher Front Location
P/J8822	Figure 25	5	Finisher Rear Location
P/J8823	Figure 24	3	Finisher Front Location
P/J8824	Figure 24	2	Finisher Front Location
P/J8825	Figure 24	13	Finisher Front Location
P/J8827	Figure 25	9	Finisher Rear Location
P/J8843	Figure 26	7	Finisher PWB
P/J8844	Figure 26	6	Finisher PWB
P/J8846	Figure 26	3	Finisher PWB
P/J8847	Figure 26	5	Finisher PWB
P/J8848	Figure 26	1	Finisher PWB
P/J8849	Figure 26	2	Finisher PWB
P/J8850	Figure 26	10	Finisher PWB
P/J8851	Figure 26	8	Finisher PWB
P/J8852	Figure 26	9	Finisher PWB
CN1	Figure 1	5	Control Panel
CN2	Figure 1	9	Control Panel
CN3	Figure 1	4	Control Panel
CN4	Figure 1	6	Control Panel
CN5	Figure 1	3	Control Panel
CON CN3	Figure 1	11	Control Panel
CP CN1	Figure 1	7	Control Panel
F1	Figure 21	2	DADF 1 of 2
F2	Figure 21	1	DADF 1 of 2
FS812	Figure 17	11	Tray2/3 Feeder(2TM)
FS812	Figure 19	8	Tray2/3 Feeder(TTM)
FS813	Figure 17	11	Tray2/3 Feeder(2TM)
FS813	Figure 19	8	Tray2/3 Feeder(TTM)
INV CN1	Figure 1	10	Control Panel

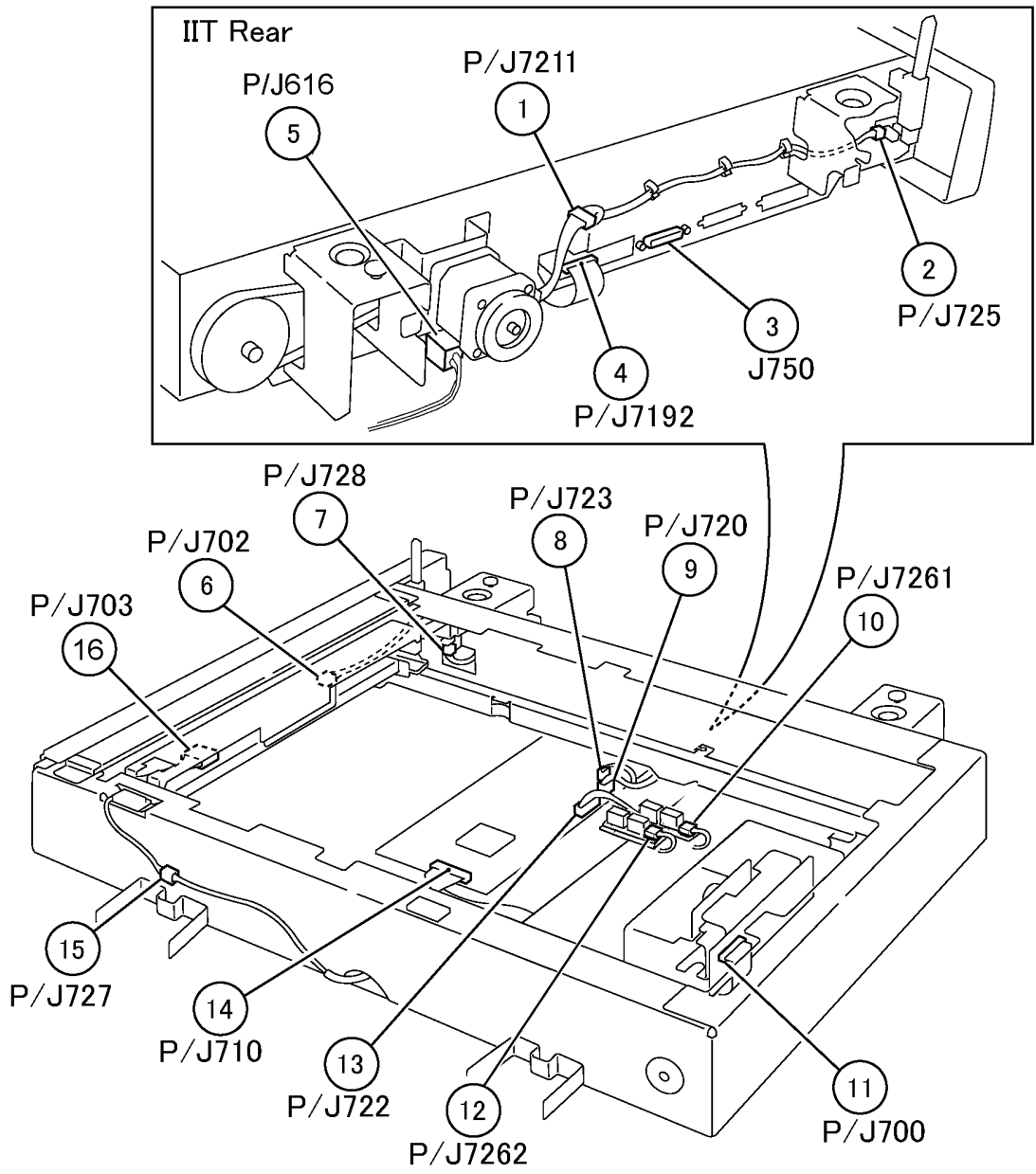
Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
INV CN2	Figure 1	1	Control Panel
LCD CN1	Figure 1	2	Control Panel
SJ1	Figure 5	9	Exit 2



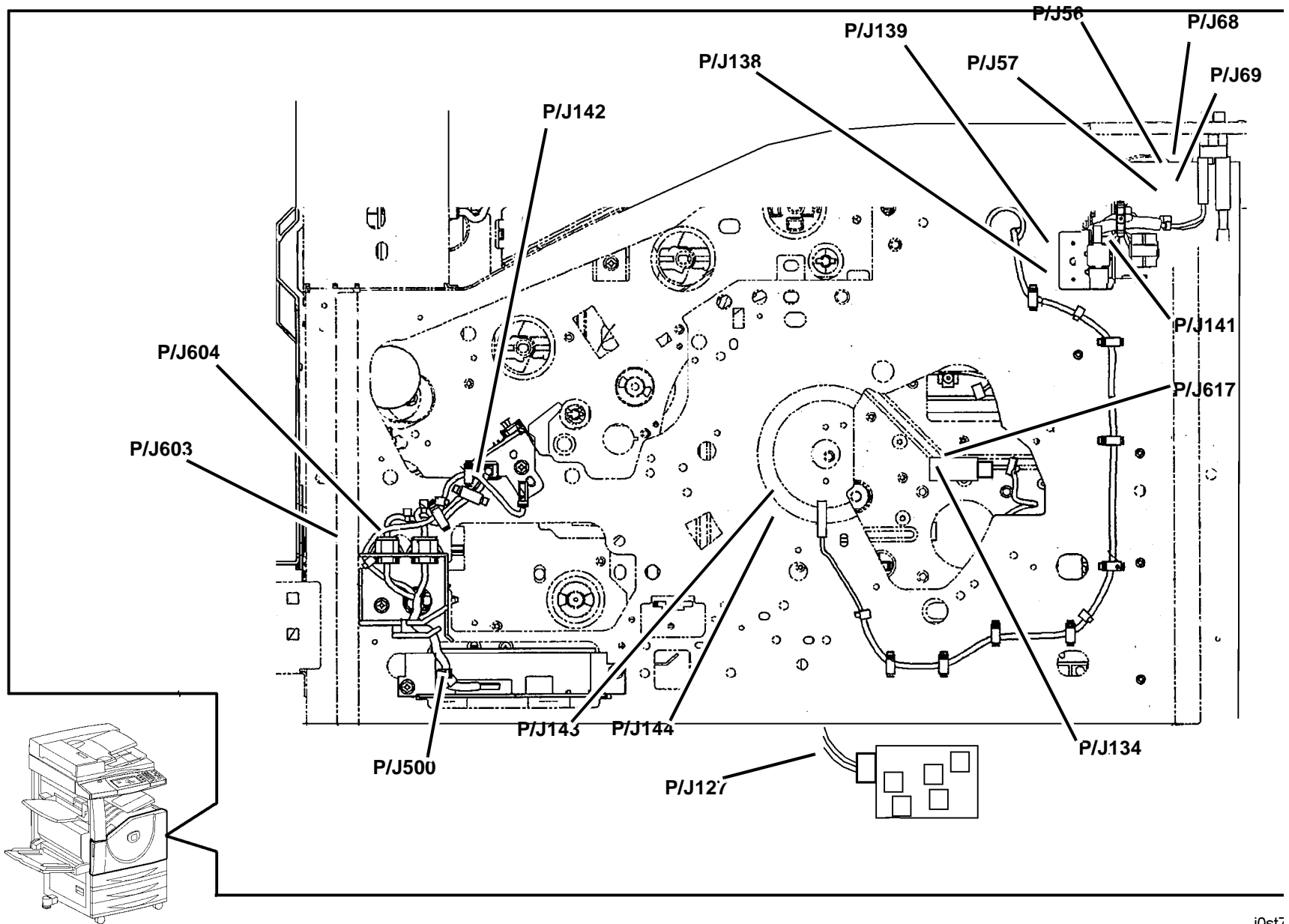
j0st7201

Figure 1 Control Panel (j0st7201)



j0st7202

Figure 2 IIT (j0st7202)



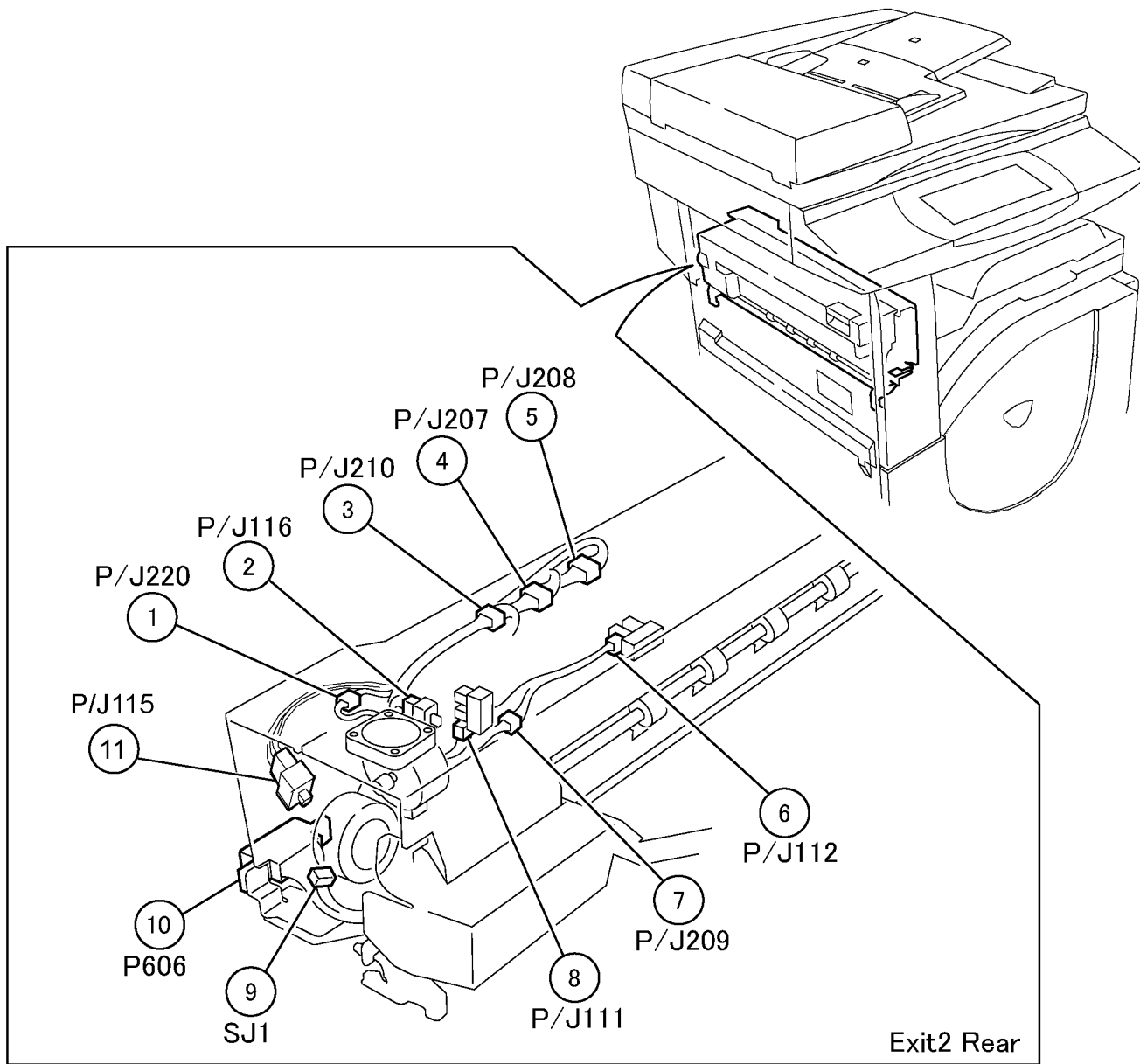
j0st7

Figure 3 HVPS, IOT Front View (j0st7203)



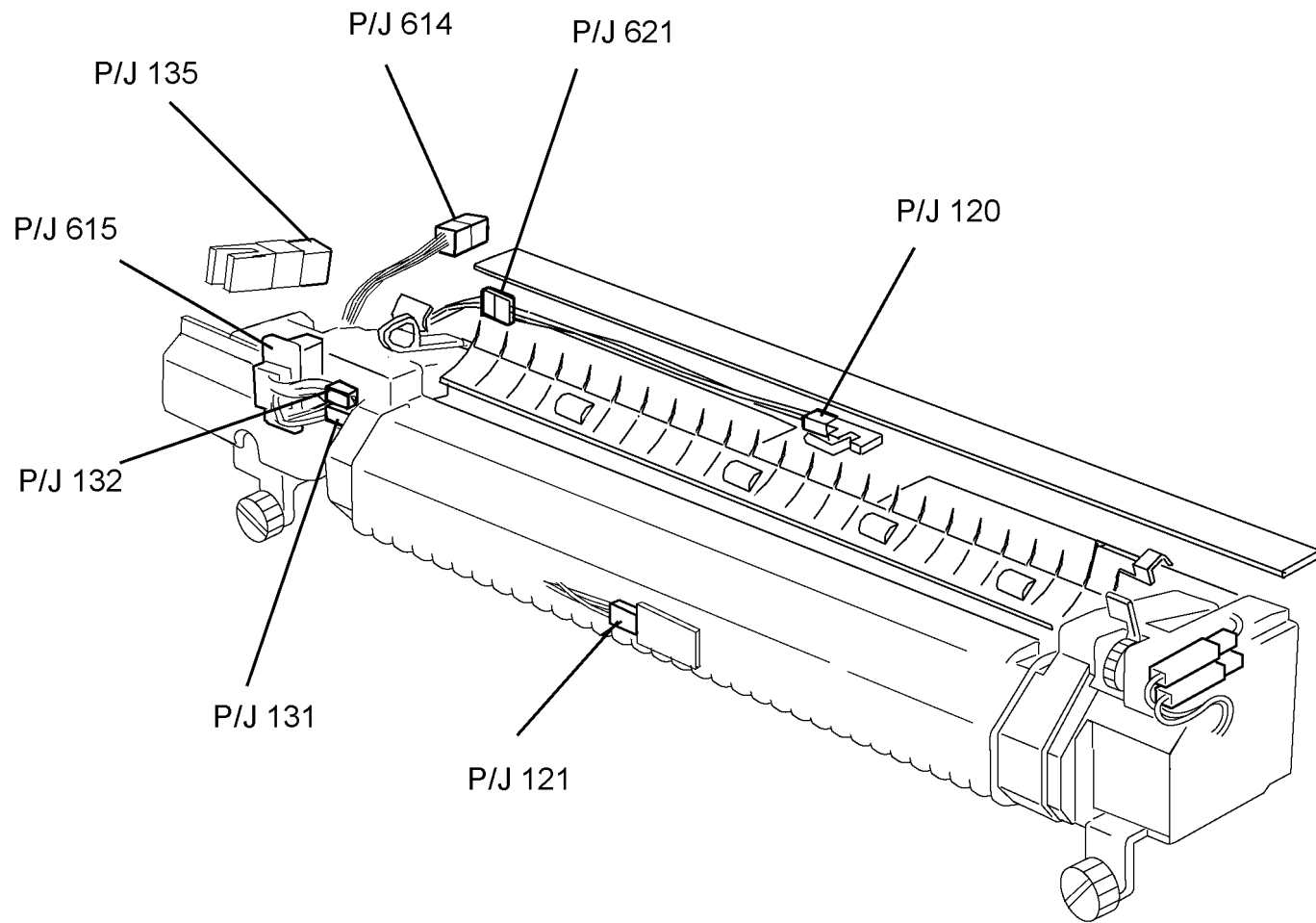
j0st7204

Figure 4 ROS Unit (j0st7204)



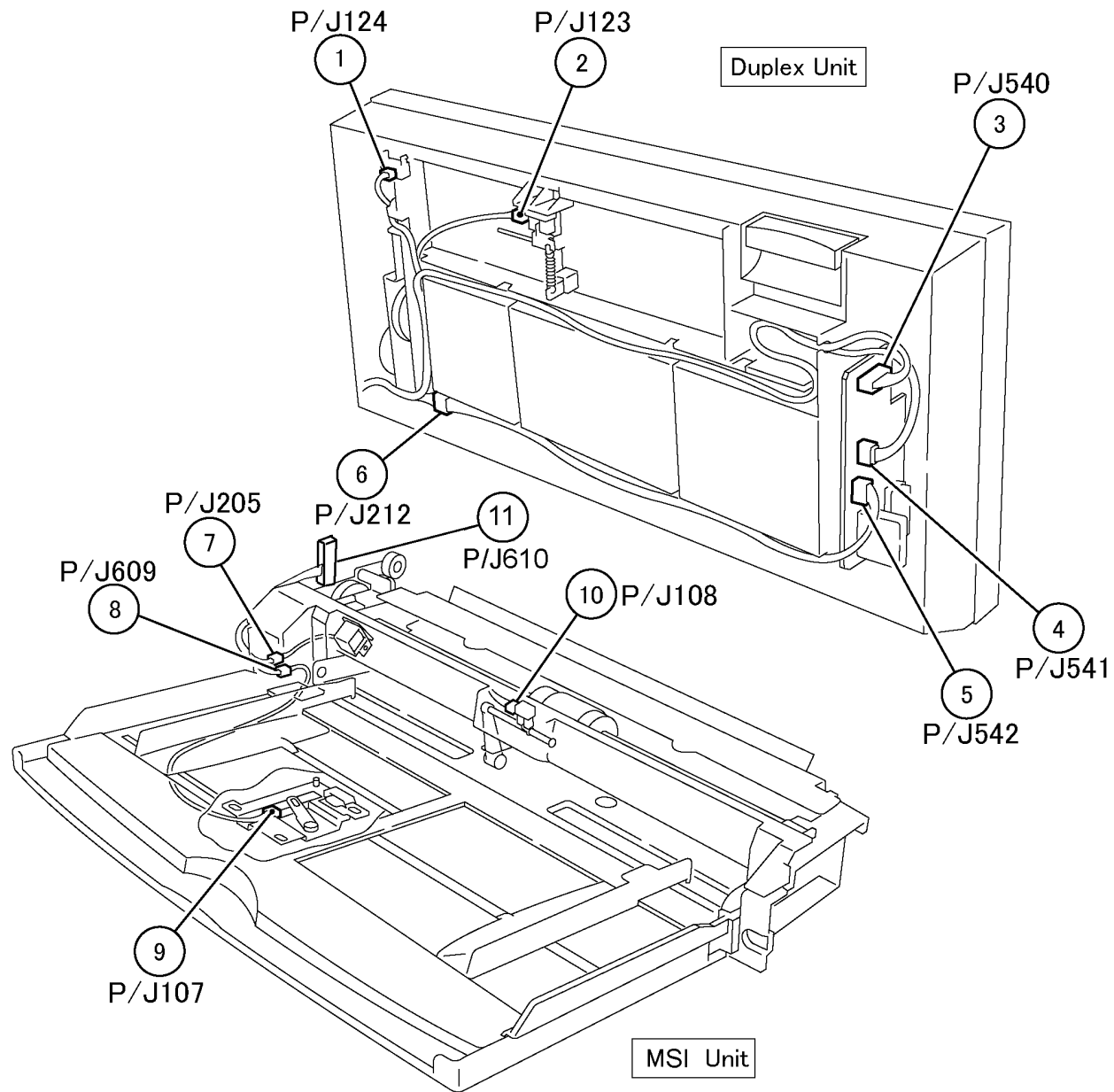
j0st7205

Figure 5 Exit 2 (j0st7205)



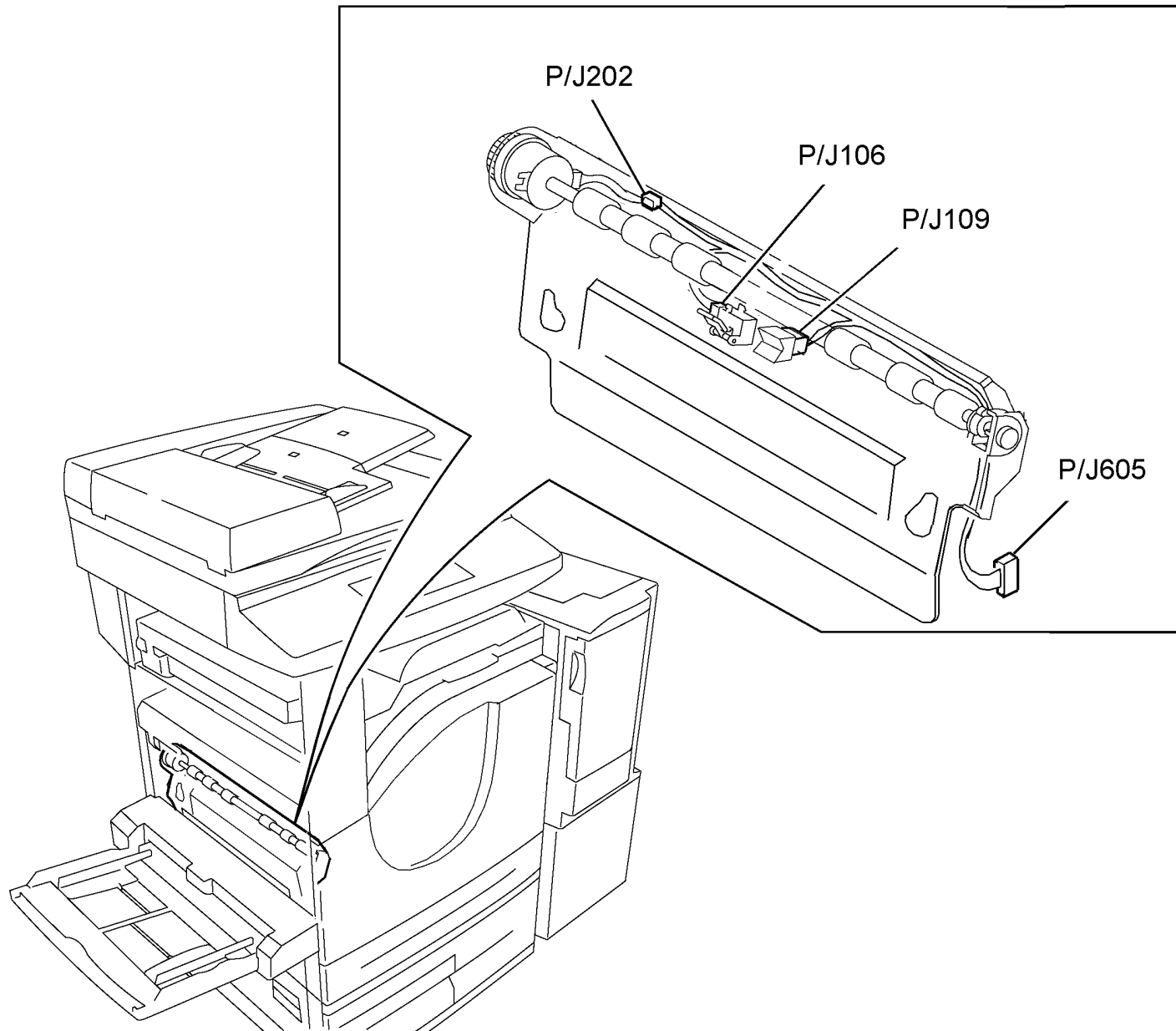
j0st7206

Figure 6 Fuser Assembly (j0st7206)



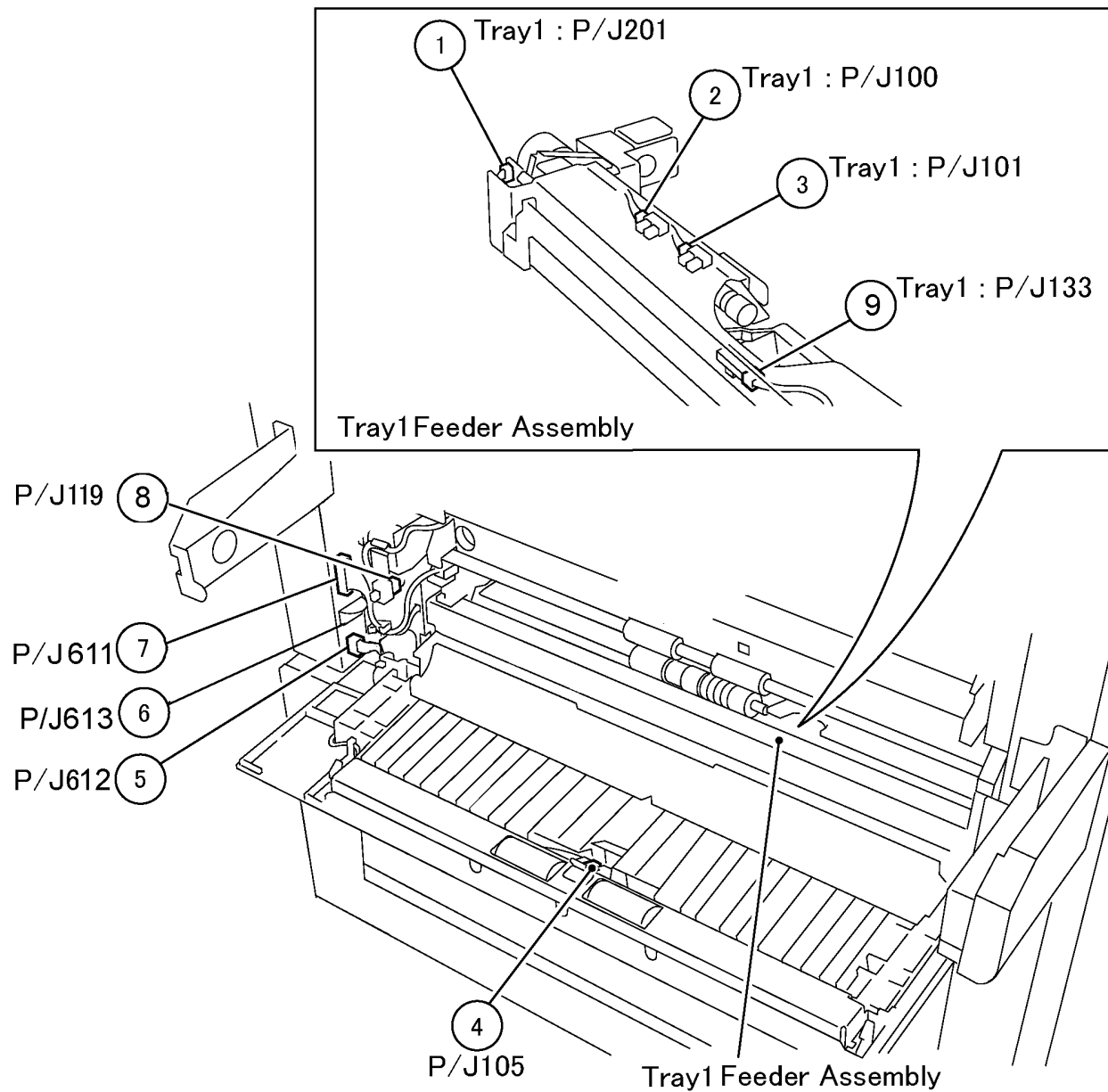
j0st7207

Figure 7 Duplex Unit, MSI (j0st7207)



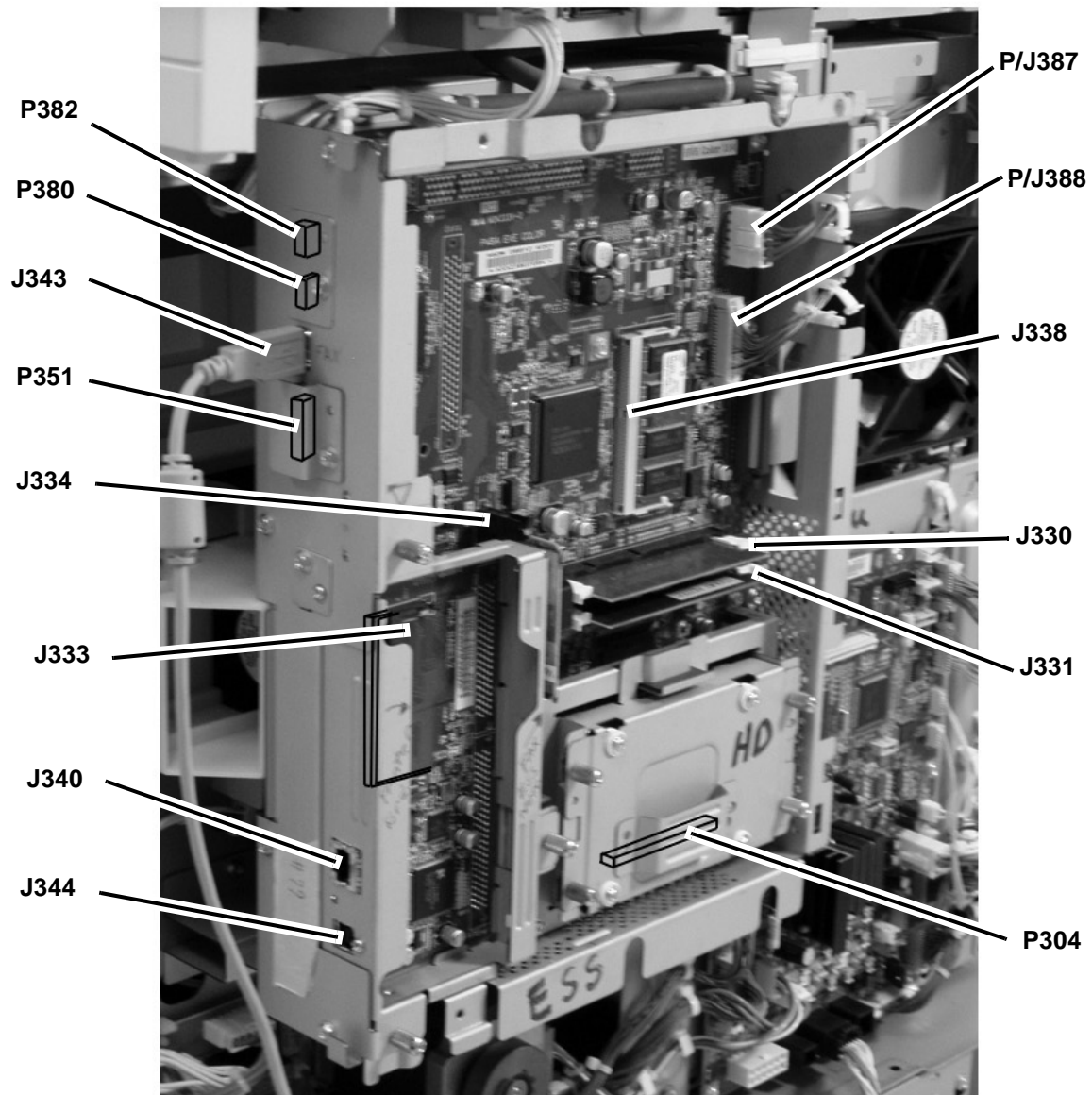
j0st7208

Figure 8 Regi. Sensor, Regi. Clutch (j0st7208)



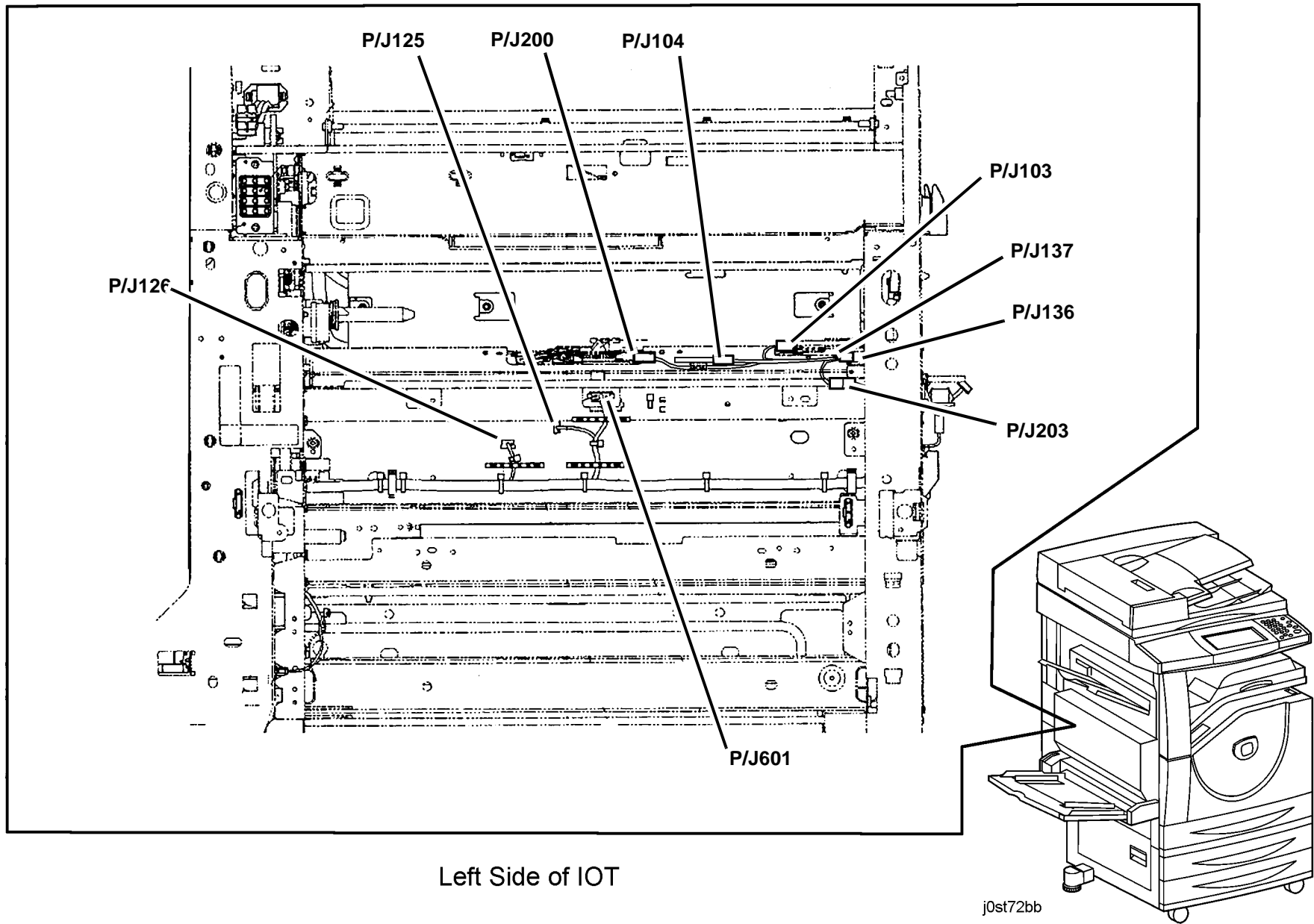
j0tp7209

Figure 9 L/H Lower, Tray1/2 Feeder (j0tp7209)



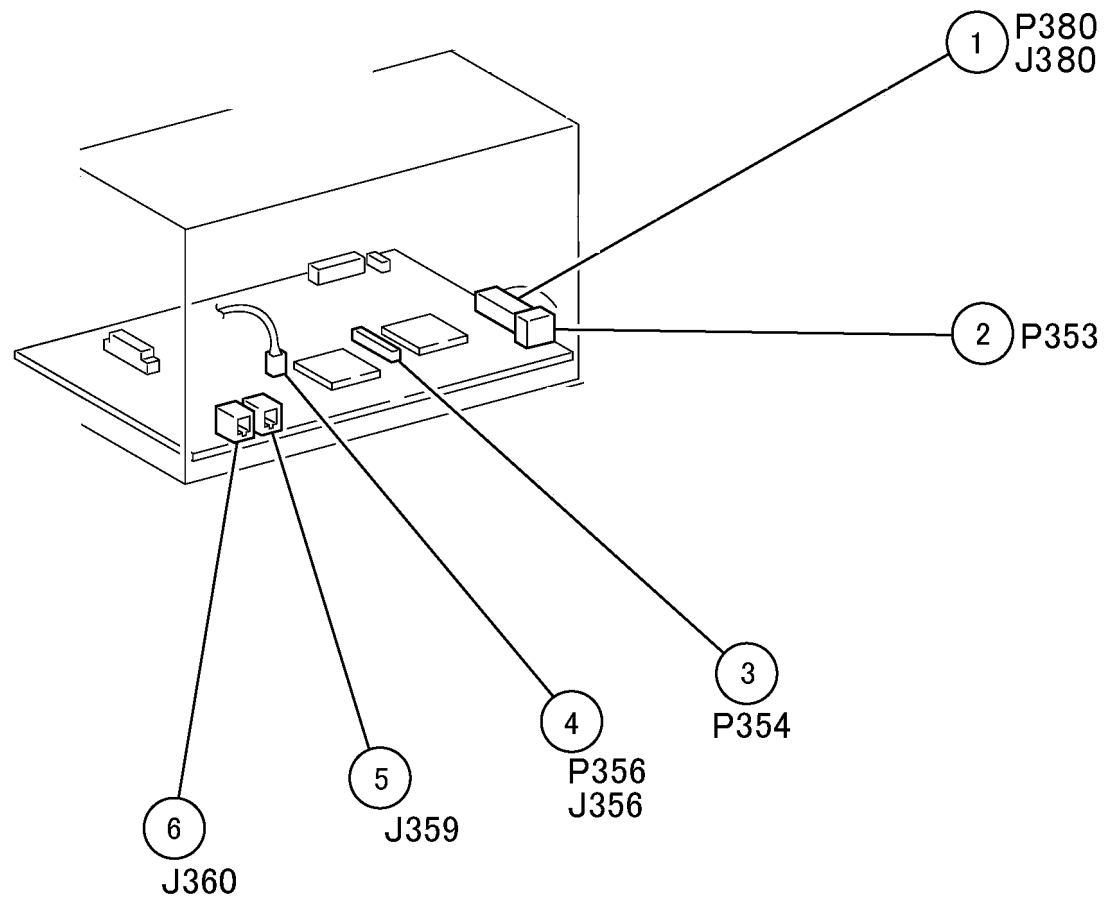
j0tp7210

Figure 10 ESS (j0tp7210)



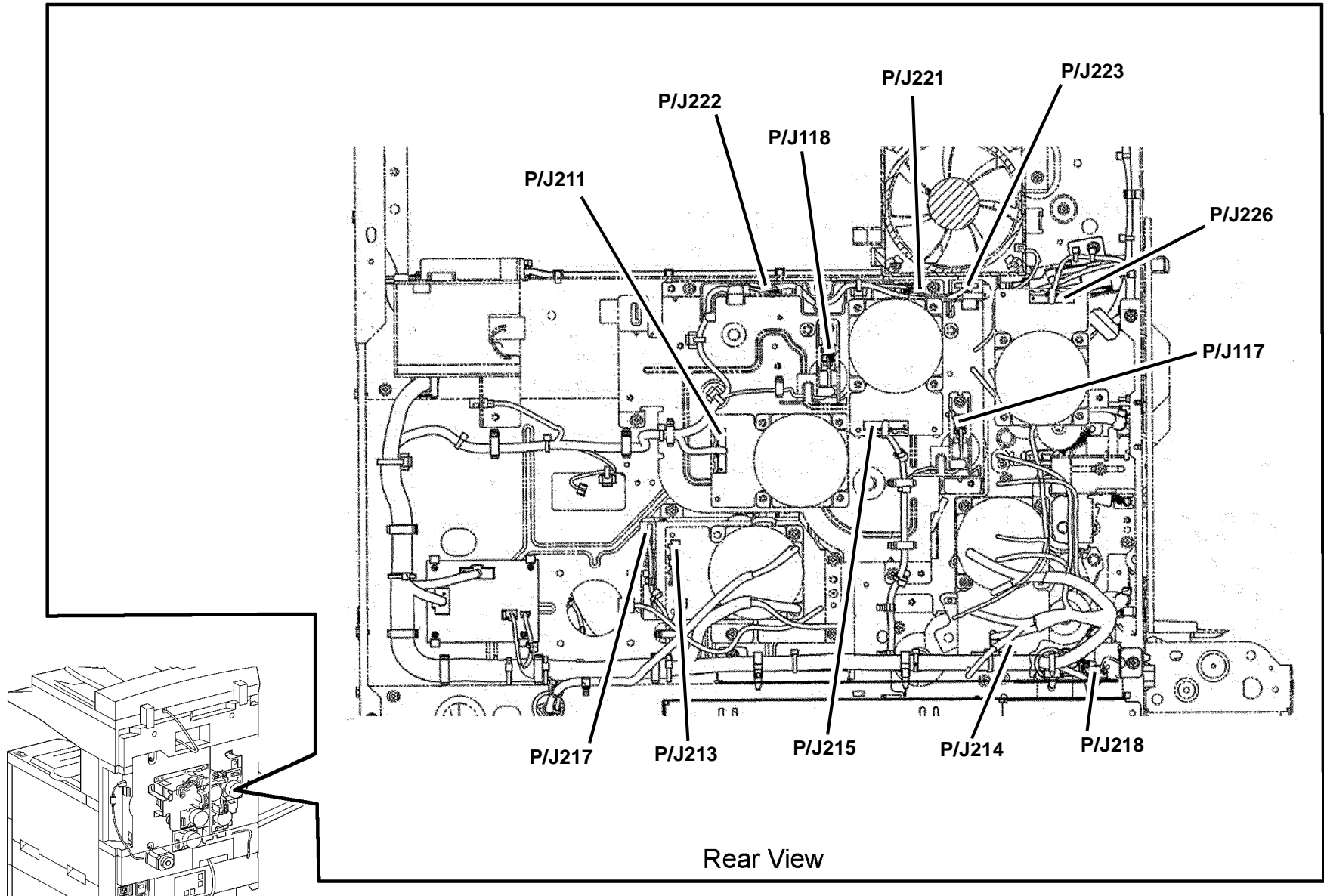
Left Side of IOT

Figure 11 Left Side of IOT (j0st72bb)



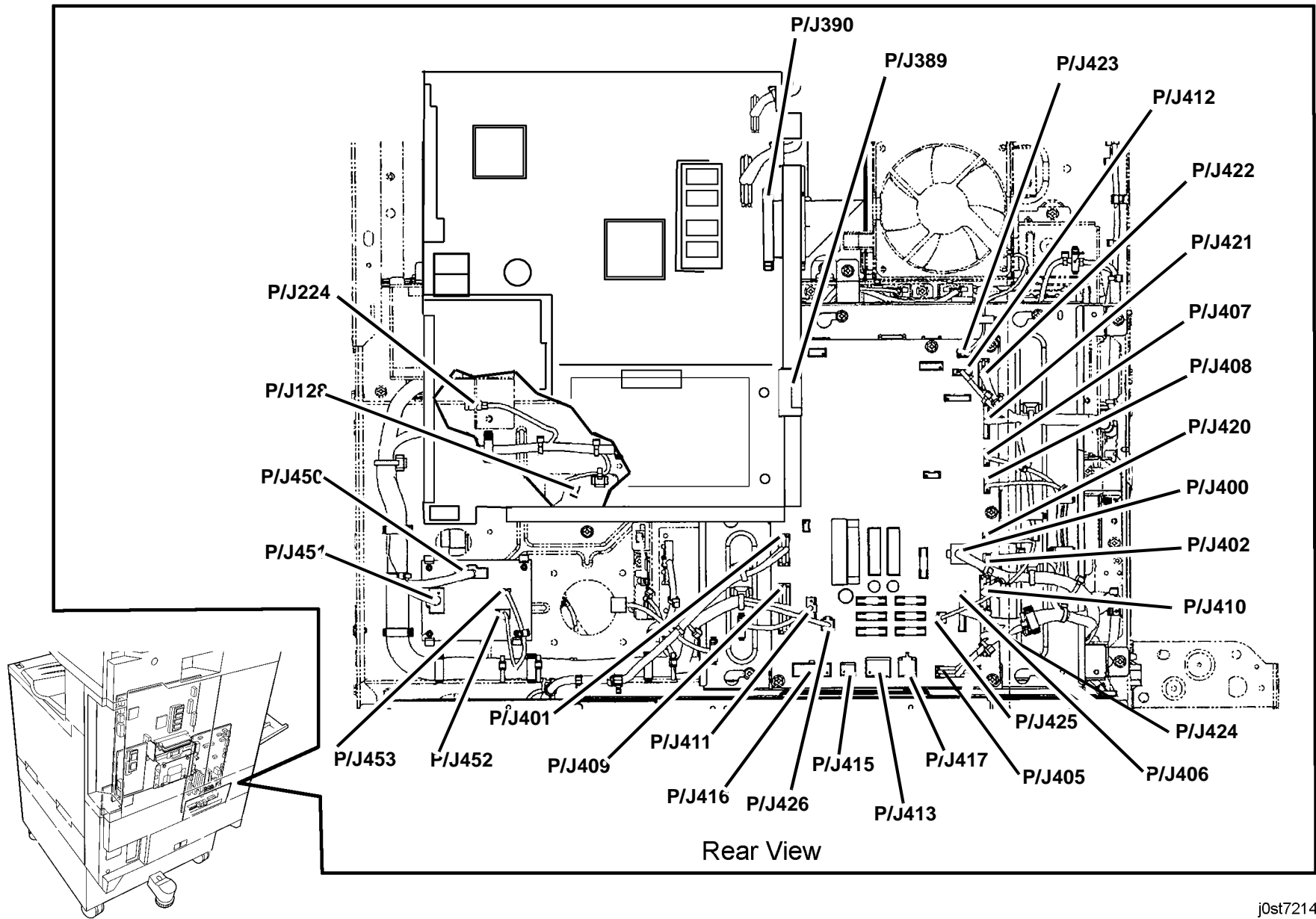
j0st7212

Figure 12 Fax Box Assembly (j0st7212)



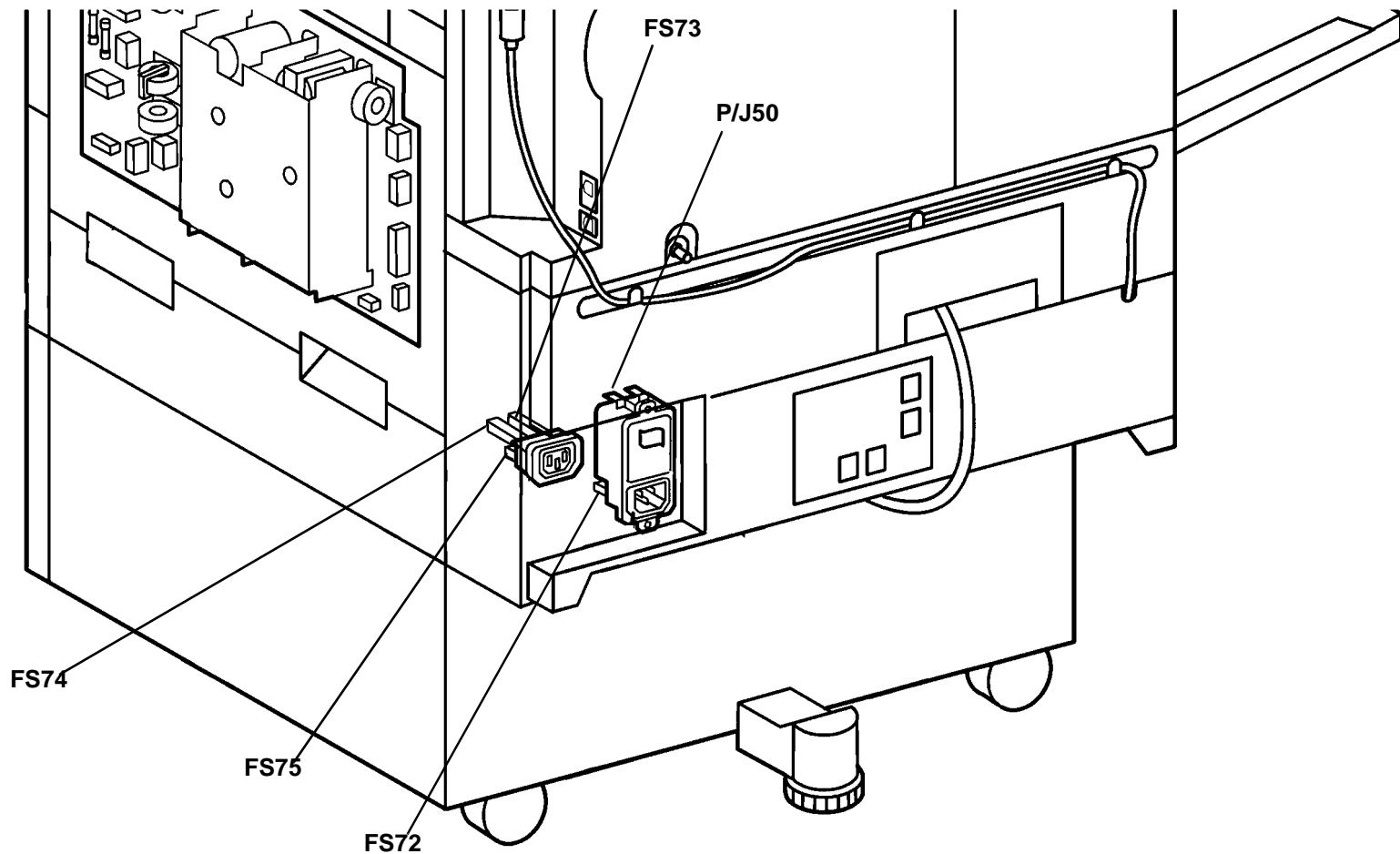
j0tp7213

Figure 13 IOT Rear Location (j0tp7213)



j0st7214

Figure 14 MCU PWB (j0st7214)



j0st7215

Figure 15 AC Input (j0st7215)

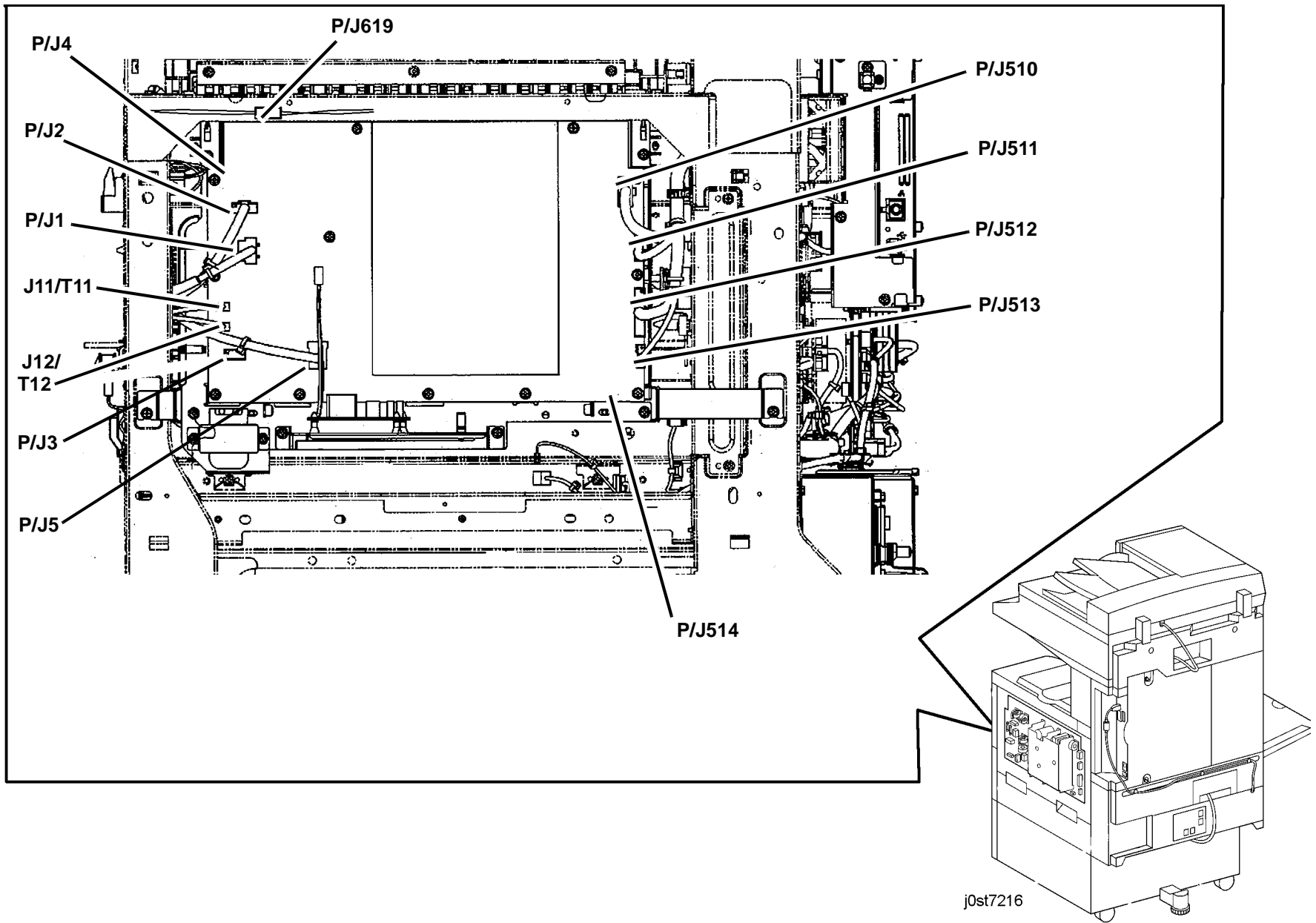


Figure 16 LVPS (j0st7216)

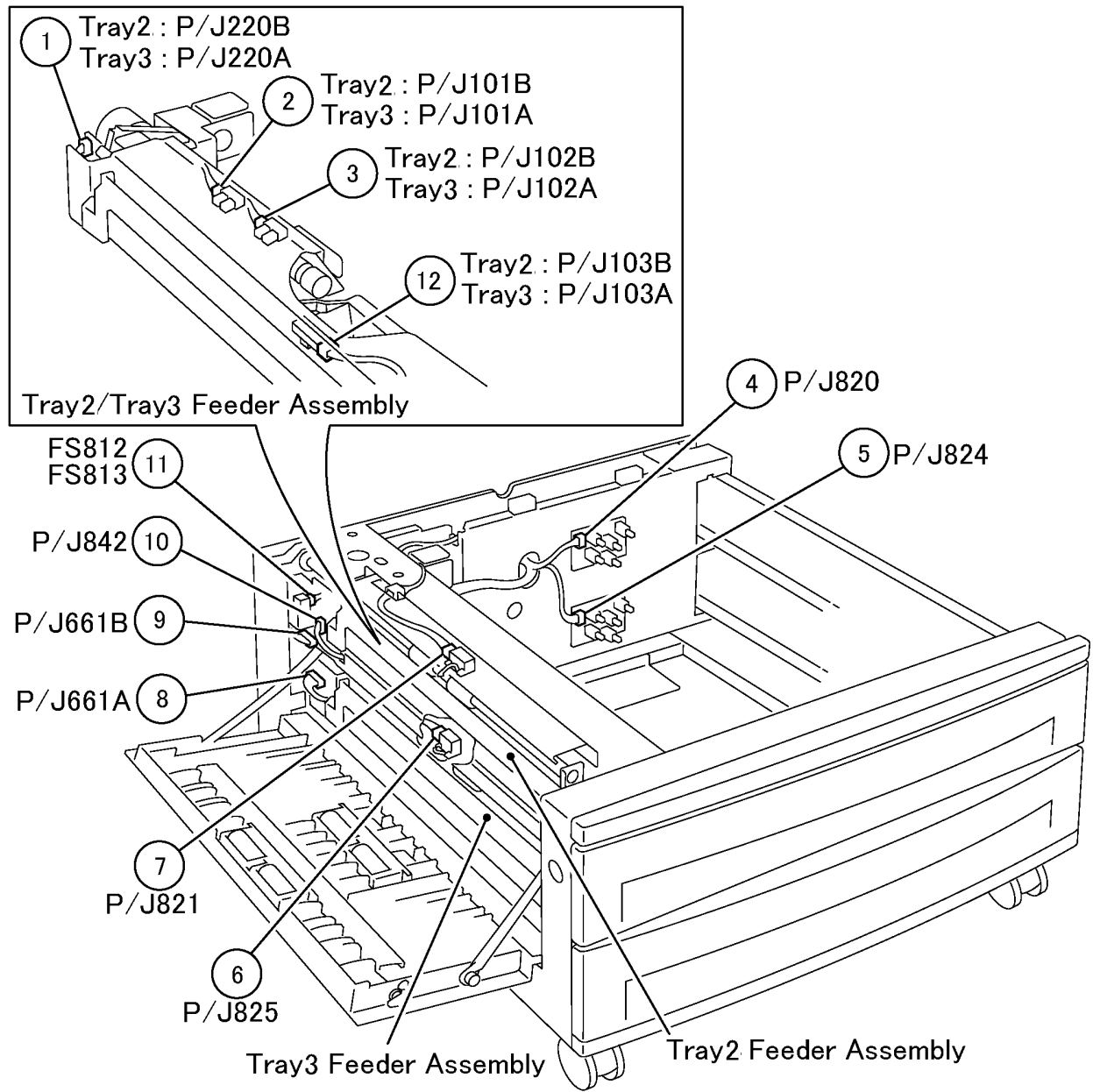
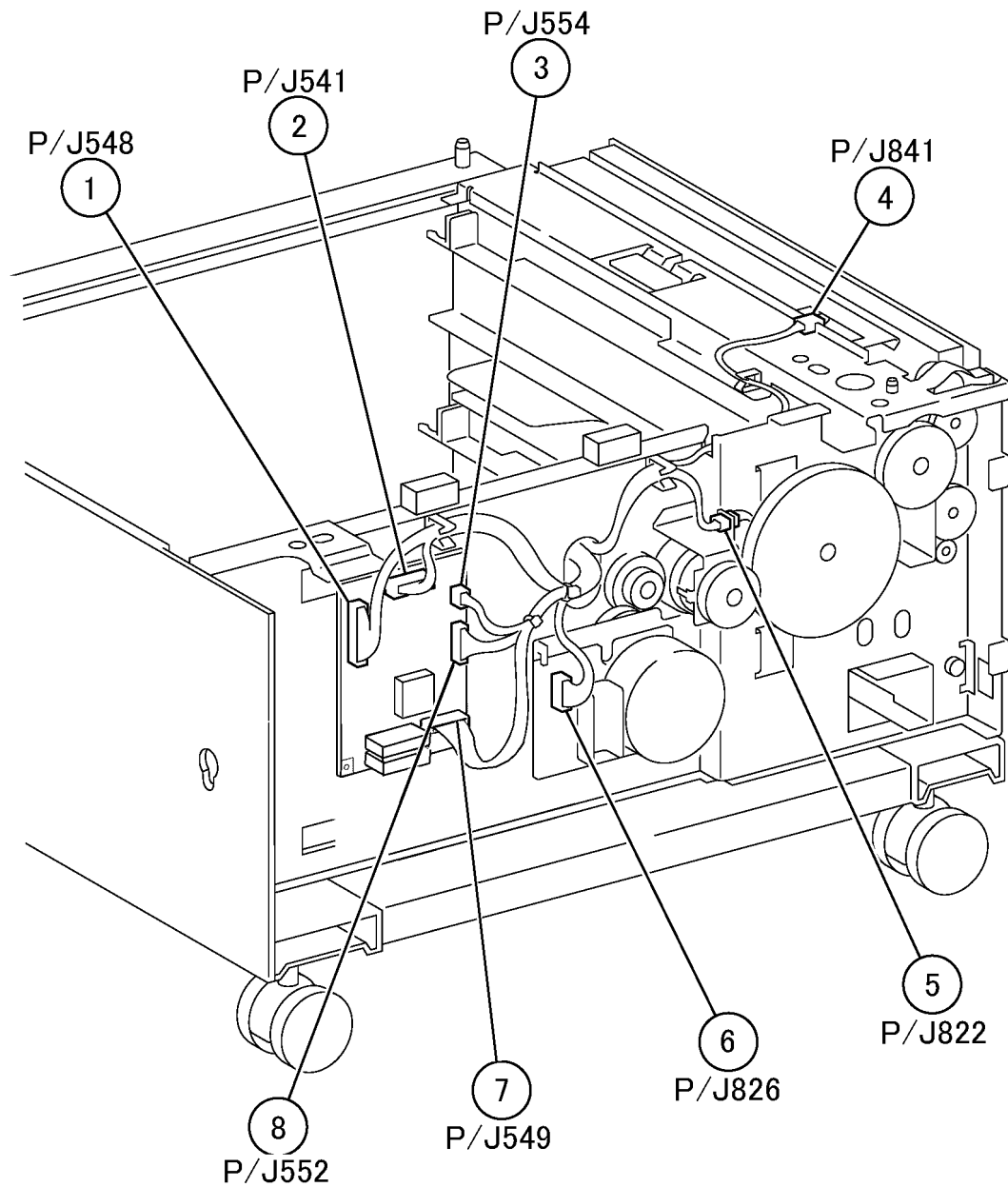


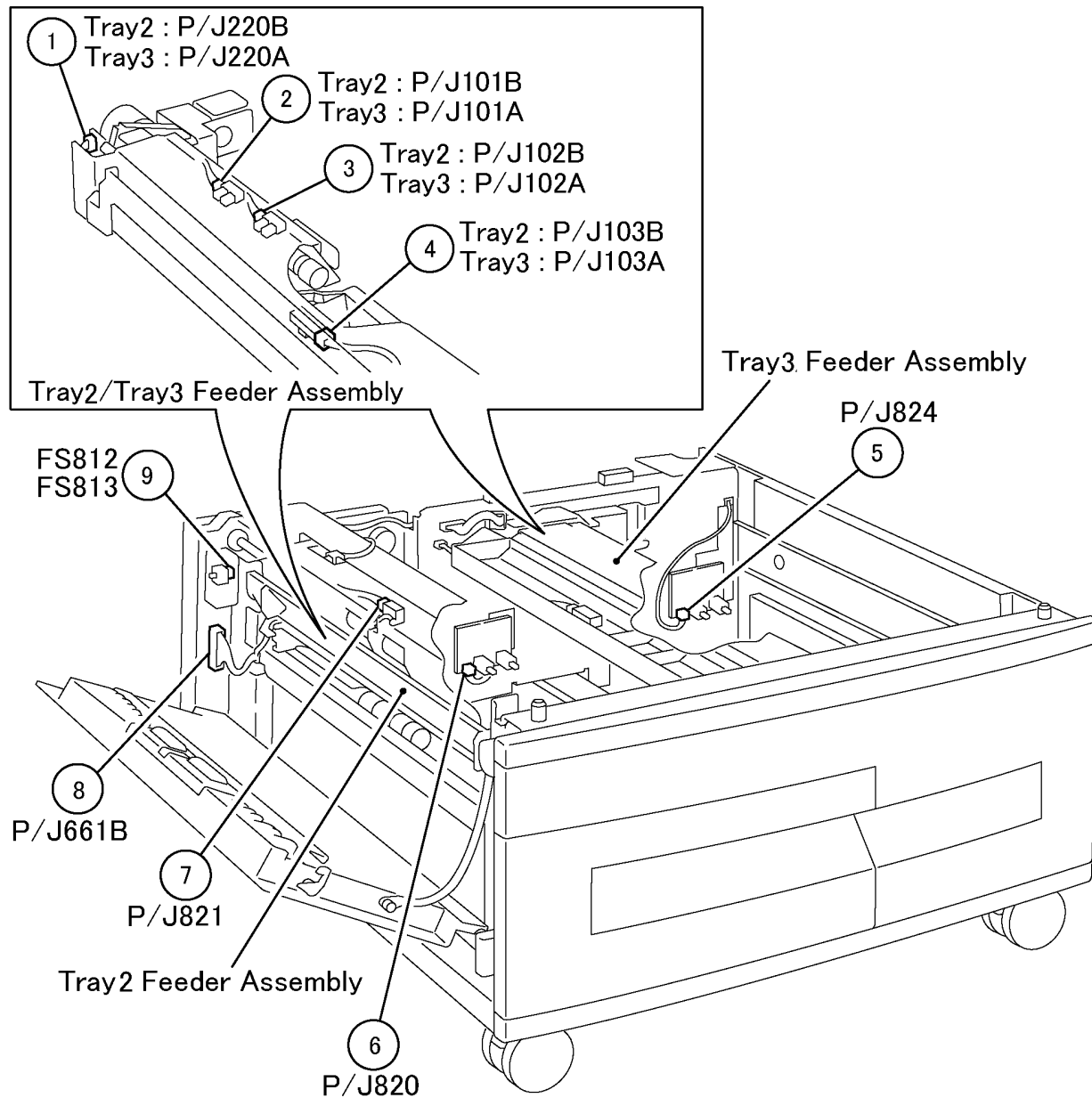
Figure 17 Tray 2/3 Feeder (2TM) (j0tp7217)

j0tp7217



j0tp7218

Figure 18 2TM Rear Location (j0tp7218)



j0tp7219

Figure 19 Tray 2/3 Feeder (TTM) (j0tp7219)

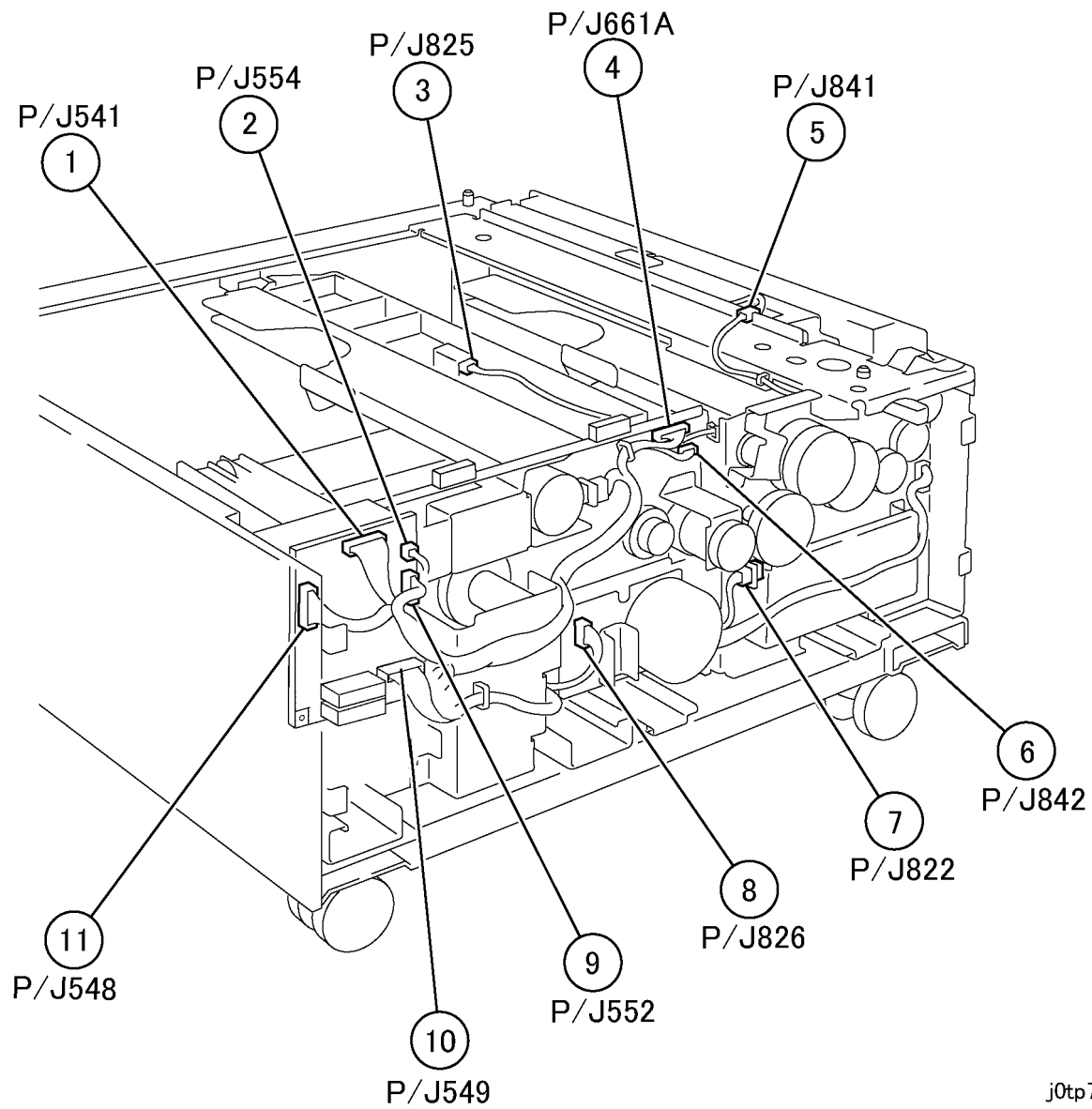
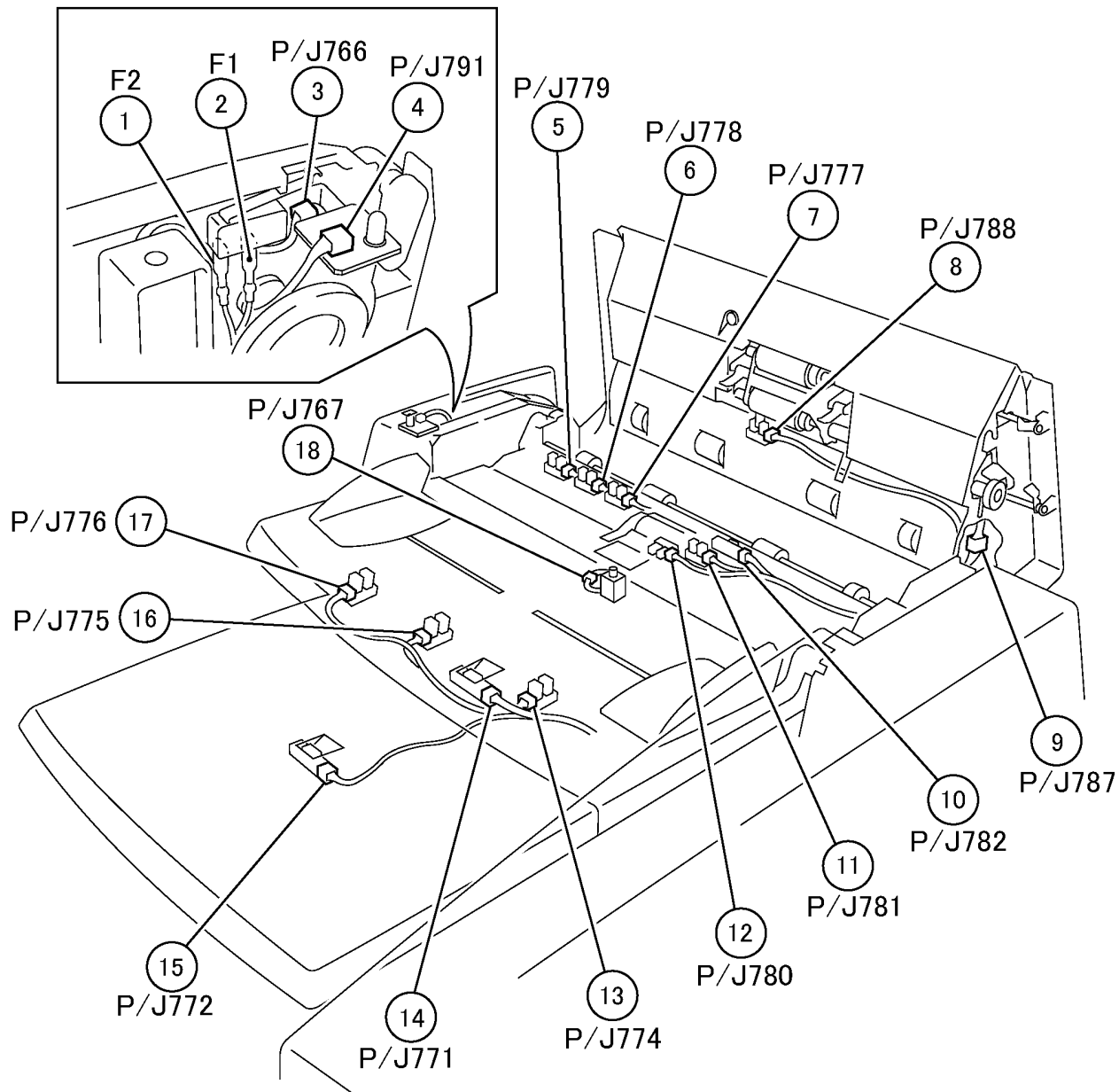
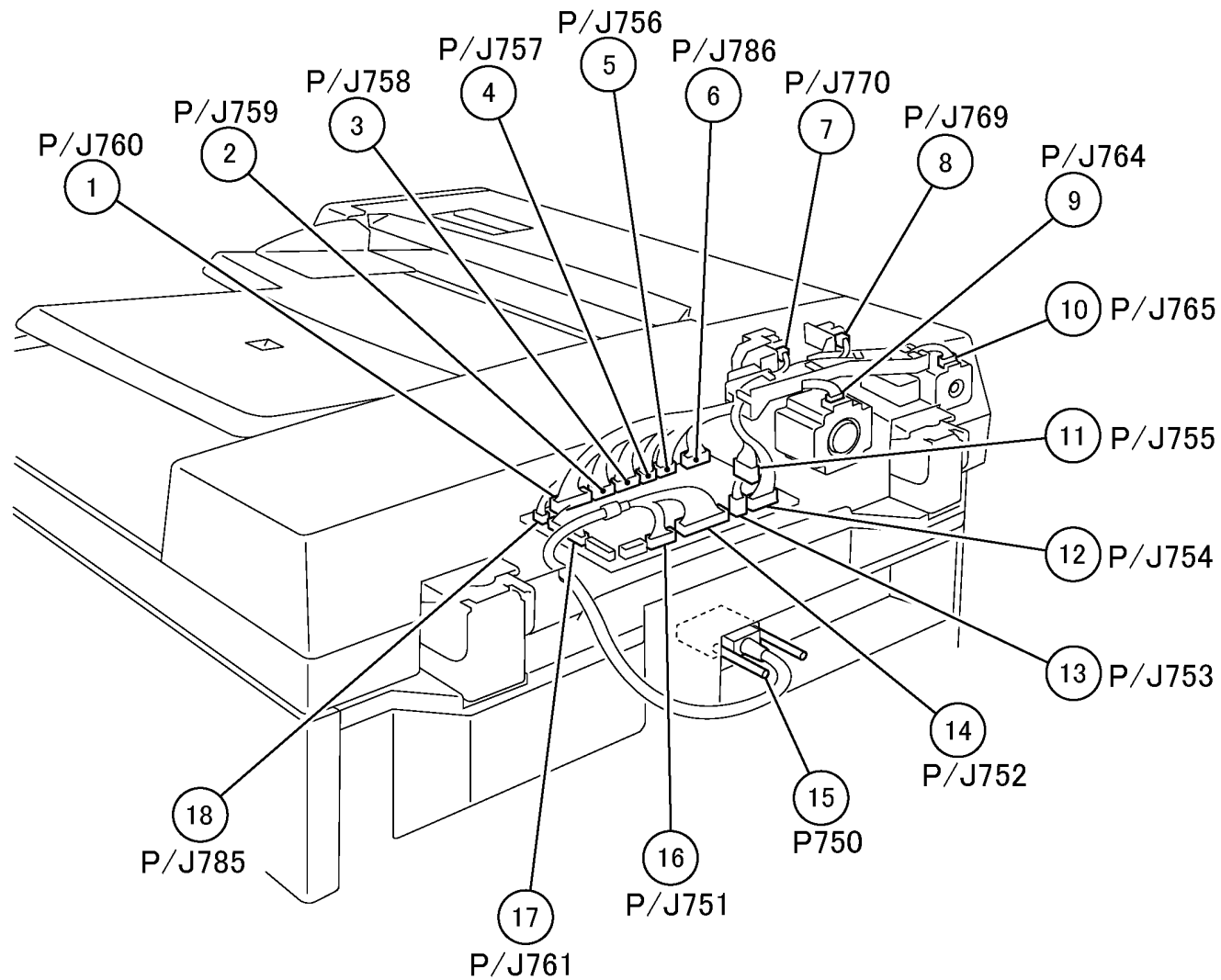


Figure 20 TTM Rear Location (j0tp7220)



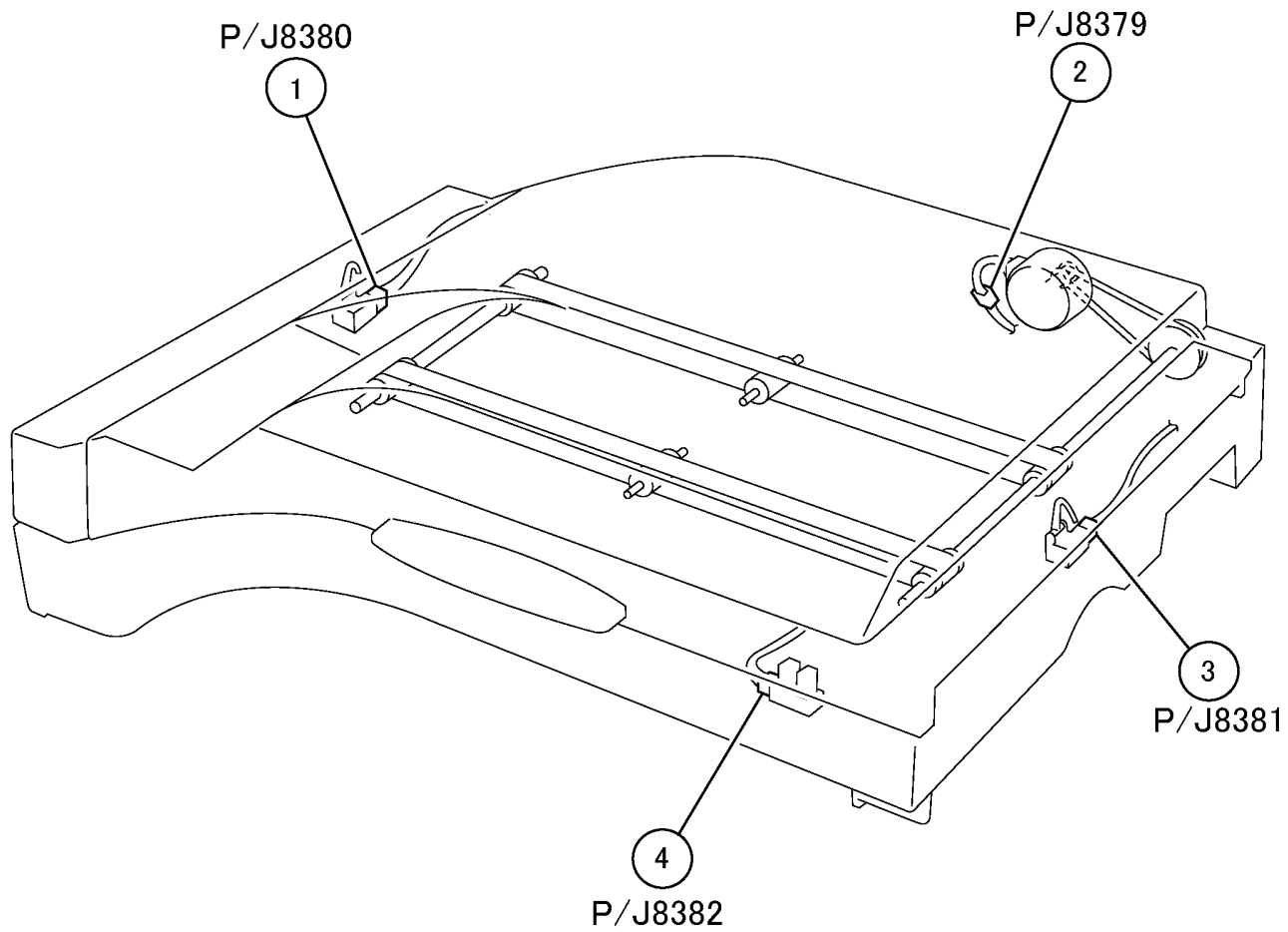
j0st7221

Figure 21 DADF 1 of 2 (j0st7221)



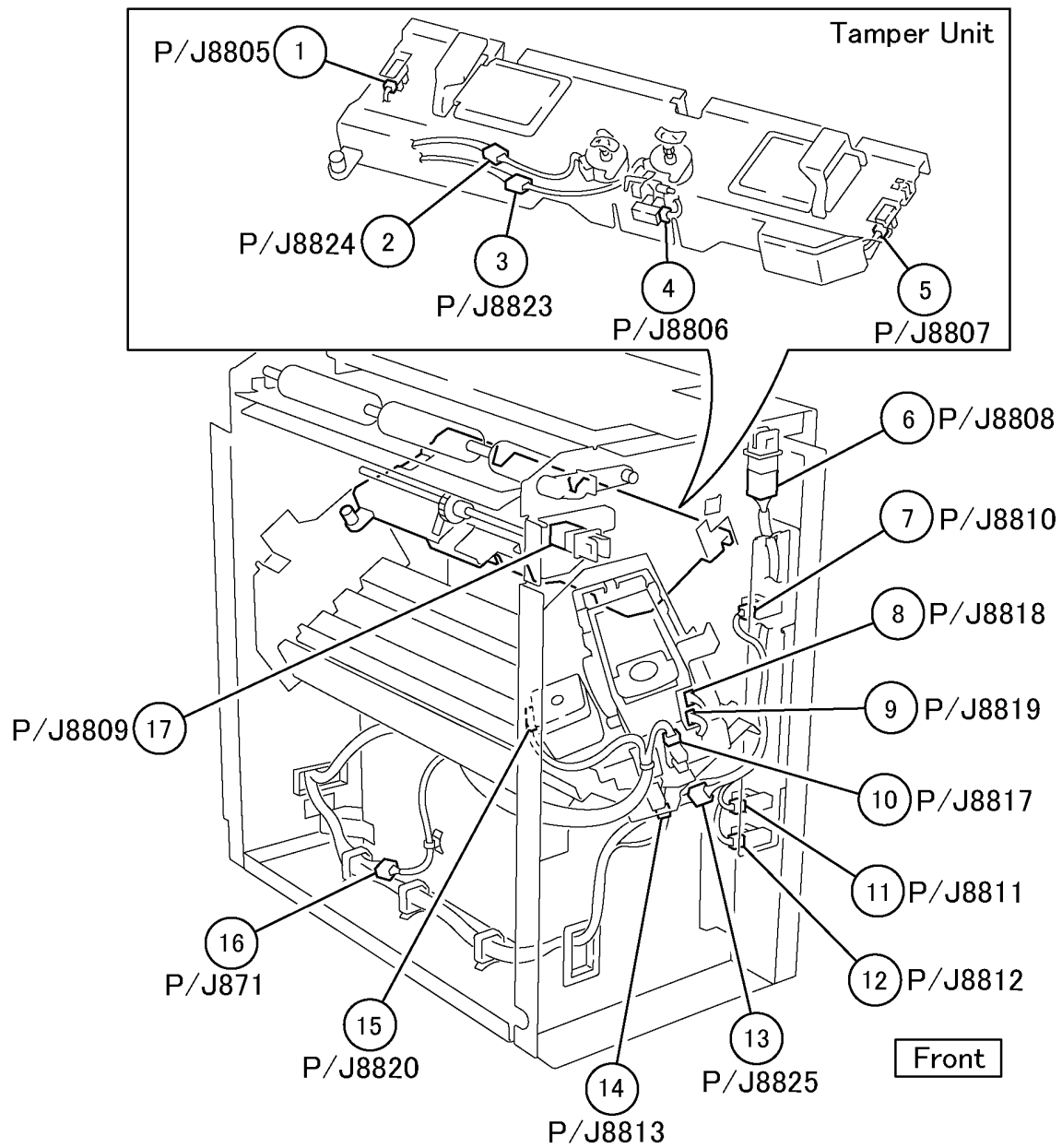
j0st7222

Figure 22 DADF 2 of 2 (j0st7222)



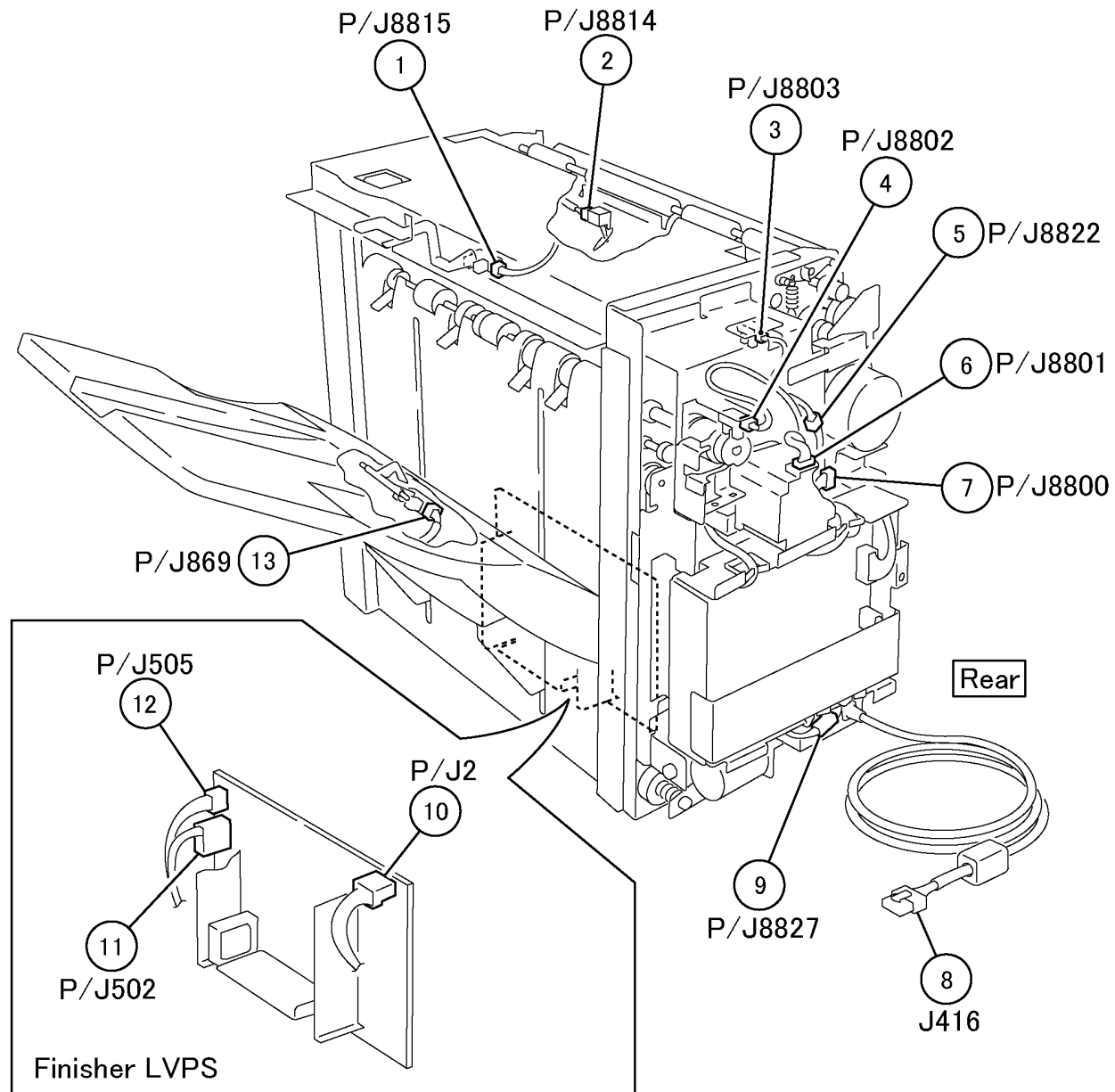
j0st7223

Figure 23 H-Transport Assembly (j0st7223)



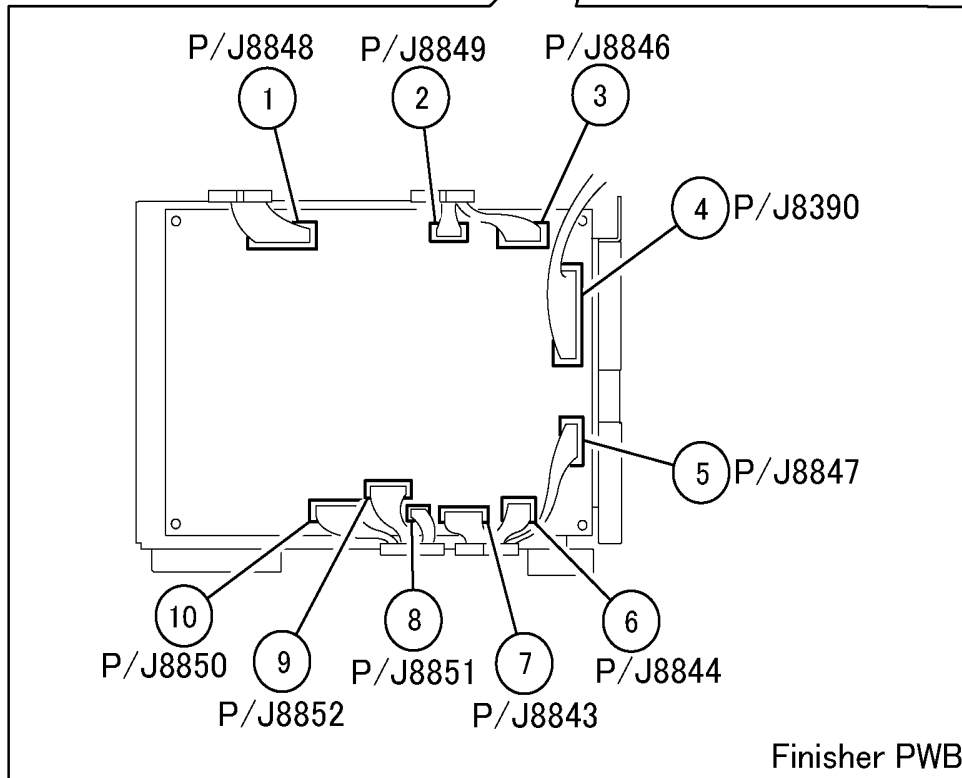
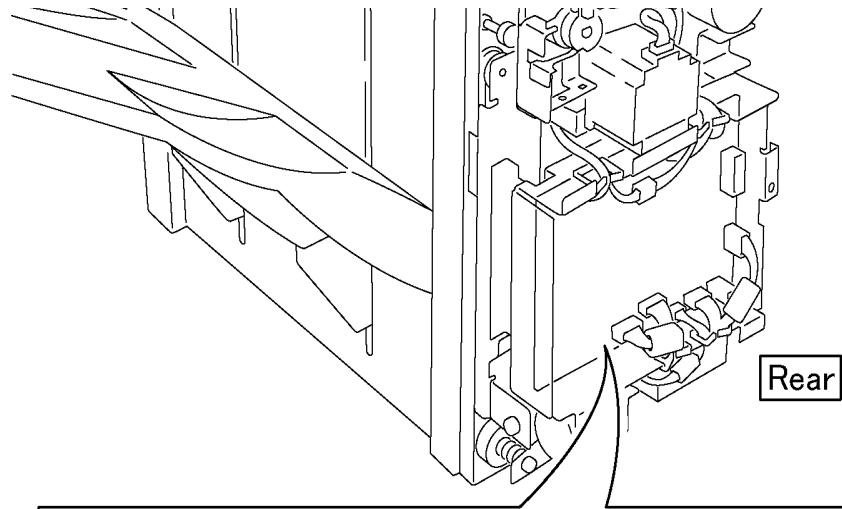
j0st7224

Figure 24 Finisher Front Location (j0st7224)



j0st7225

Figure 25 Finisher Rear Location (j0st7225)



j0tp7226

Figure 26 Finisher PWB (j0tp7226)

7.1.1 Plug/Jack Locations

How to use the Plug/Jack Location List

The Plug/Jack Location List below is provided to locate plugs, jacks, or other terminating devices. Locate the desired termination device in the first column (Connector Number) of the list. Refer to the second column (Figure Number) to determine the figure number of the electrical termination device. Refer to the (Item Number) column to determine the item number in the adjacent Figure Number column. The fourth column supplies the title of the Figure.

NOTE: Connectors numbered "CN" and "FS" are listed after the "P and J" connectors.

Plug/Jack Location List

Table 1 Plug/Jack List (A-Finisher)

Connector Number	Figure Number	Item Number	Figure Title
P/J8700	Figure 28	2	
P/J8701	Figure 28	1	
P/J8702	Figure 28	11	
P/J8703	Figure 28	10	
P/J8704	Figure 28	13	
P/J8705	Figure 28	12	
P/J8706	Figure 28	8	
P/J8707	Figure 28	3	
P/J8708	Figure 28	17	
P/J8709	Figure 28	16	
P/J8710	Figure 28	9	
P/J8711	Figure 28	4	
P/J8721	Figure 29	2	
P/J8722	Figure 29	1	
P/J8723	Figure 29	6	
P/J8724	Figure 27	1	
P/J8725	Figure 29	11	
P/J8726	Figure 27	7	
P/J8727	Figure 27	9	
P/J8728	Figure 27	8	
P/J8729	Figure 27	6	
P/J8730	Figure 27	2	
P/J8731	Figure 27	4	
P/J8732	Figure 27	3	
P/J8733	Figure 28	14	
P/J8734	Figure 28	15	
P/J8735	Figure 27	5	
P/J8736	Figure 29	5	
J8737A	Figure 29	9	

Table 1 Plug/Jack List (A-Finisher)

Connector Number	Figure Number	Item Number	Figure Title
J8737B	Figure 29	9	
J8738A	Figure 29	10	
J8738B	Figure 29	10	
P/J8739	Figure 28	7	
P/J8740	Figure 28	5	
P/J8741	Figure 28	6	
J8742A	Figure 29	7	
J8742B	Figure 29	8	
CN3	Figure 29	4	
CN4	Figure 29	3	

7.1.2 Plug/Jack Illustrations

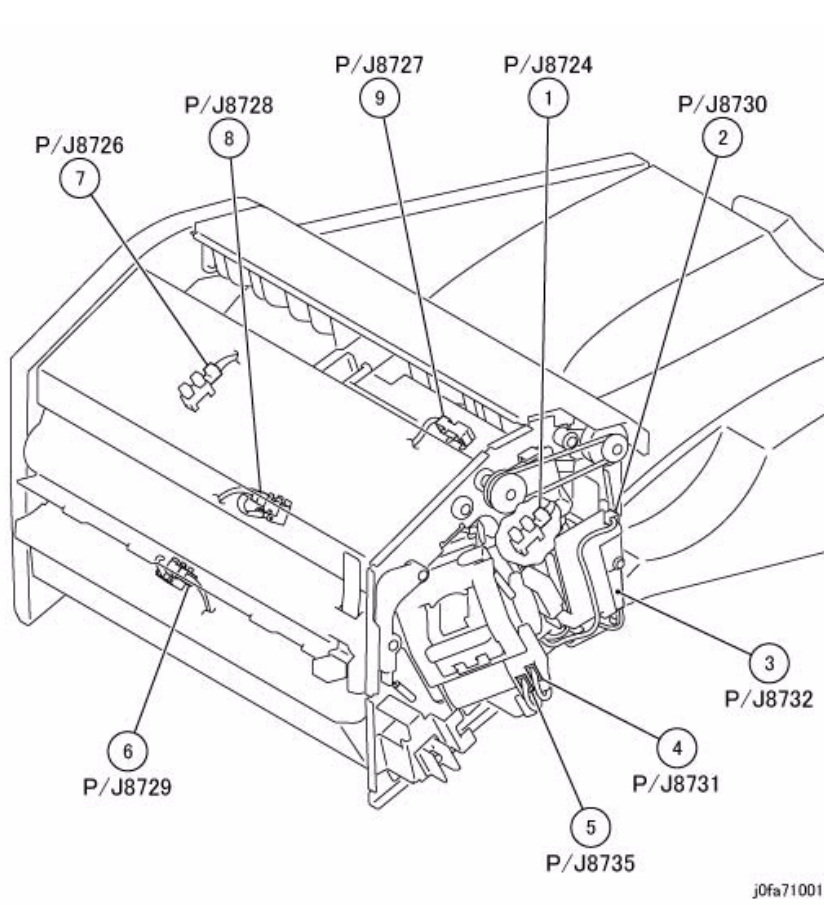


Figure 1 A-Finisher Front Location (j0fa71001)

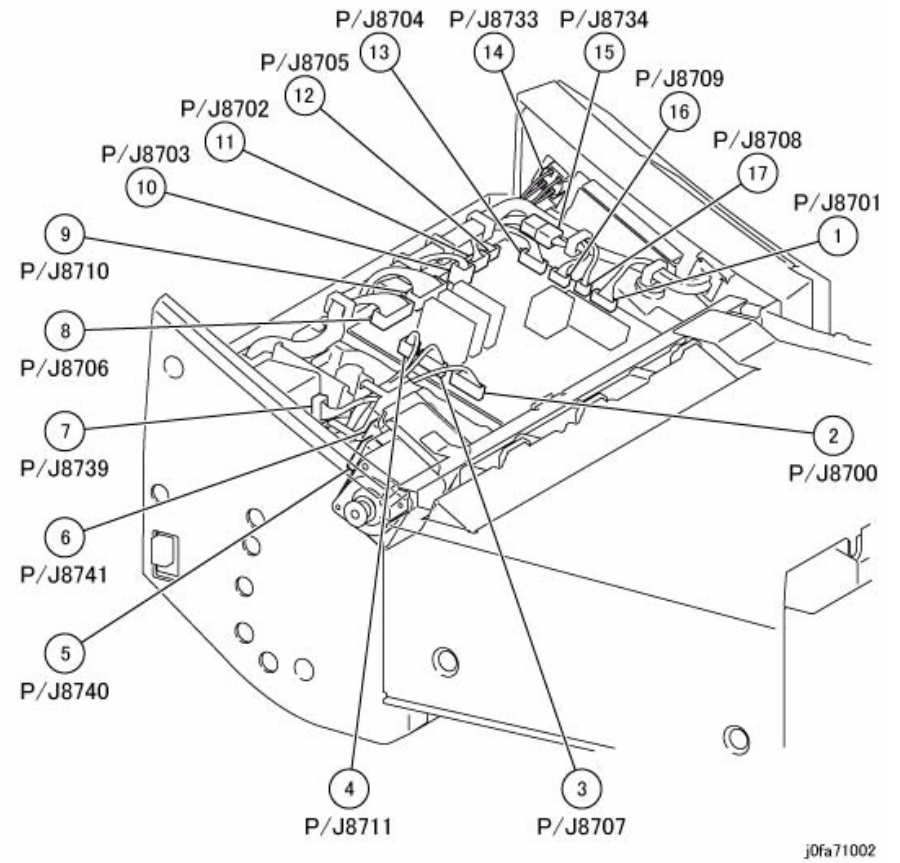
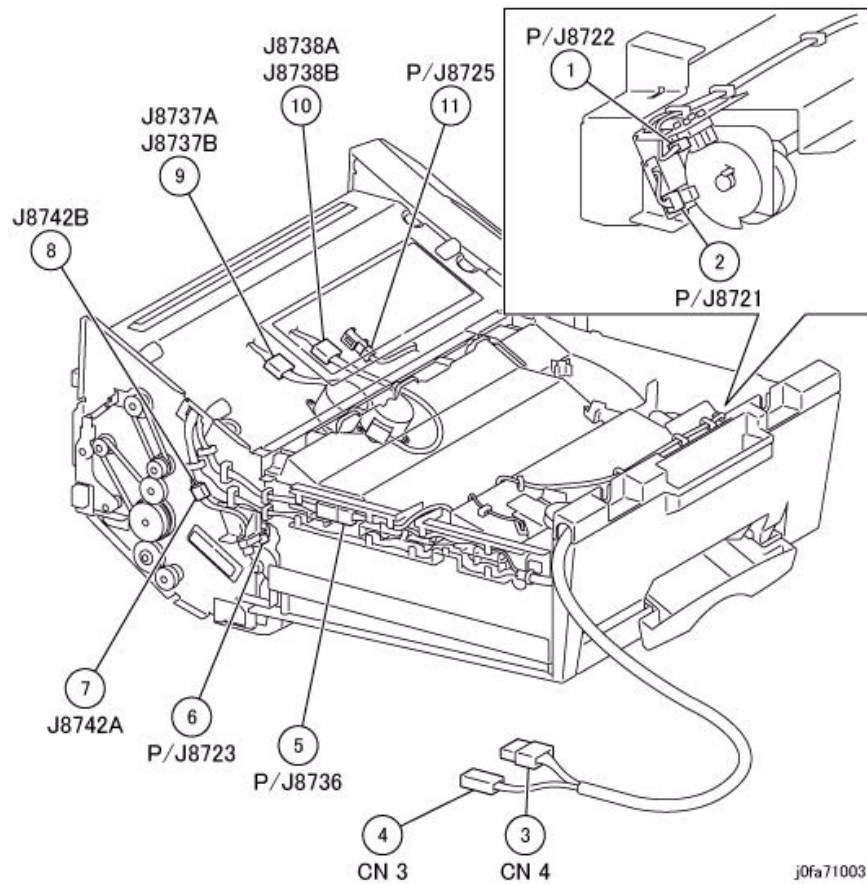


Figure 2 A-Finisher PWB Location (j0fa71002)

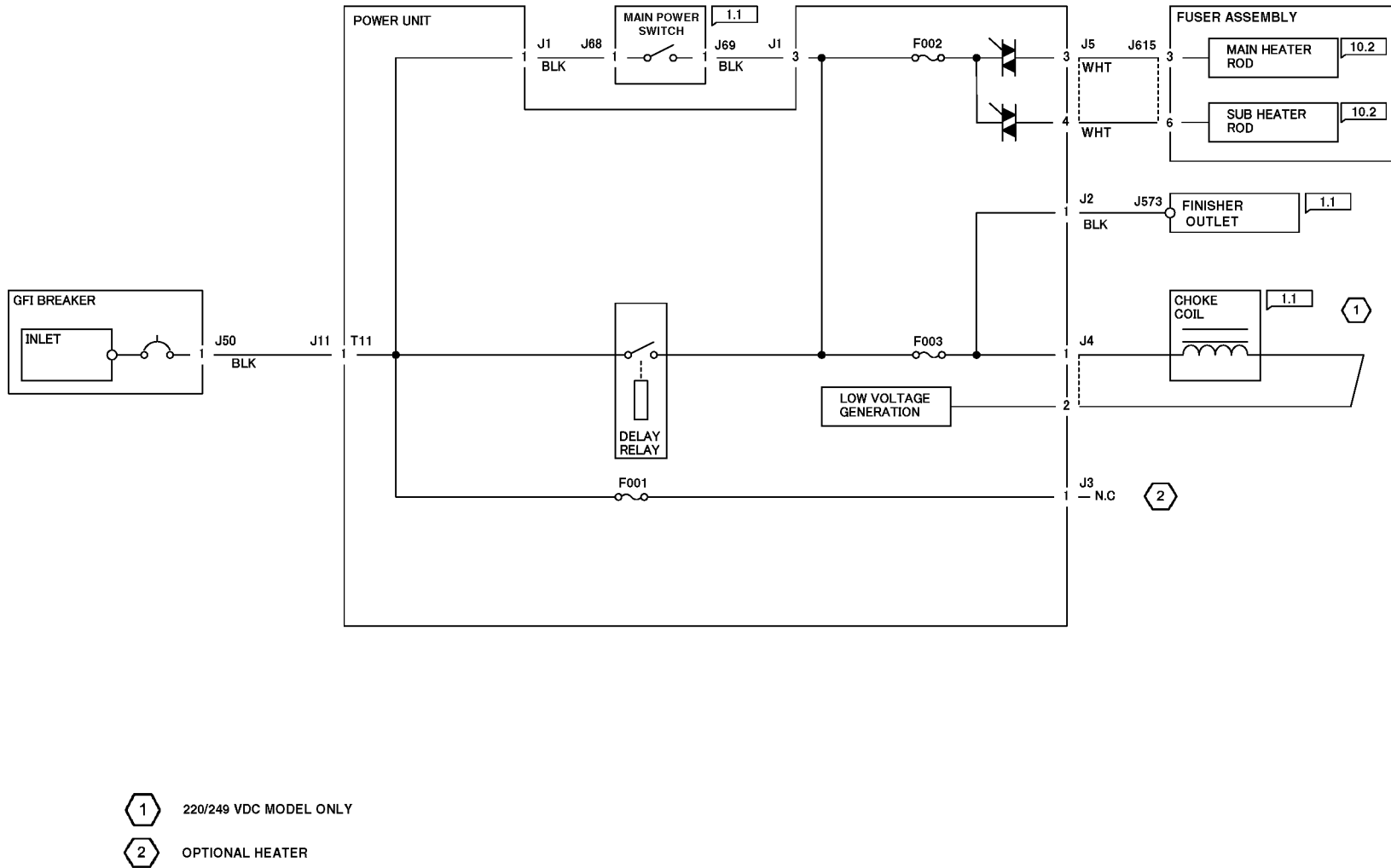


j0fa71003

Figure 3 A-Finisher Bottom Location (j0fa71003)

7.3.1 Wire Net AC POWER (HOT)

7.3.1 WIRE NET AC POWER (HOT)

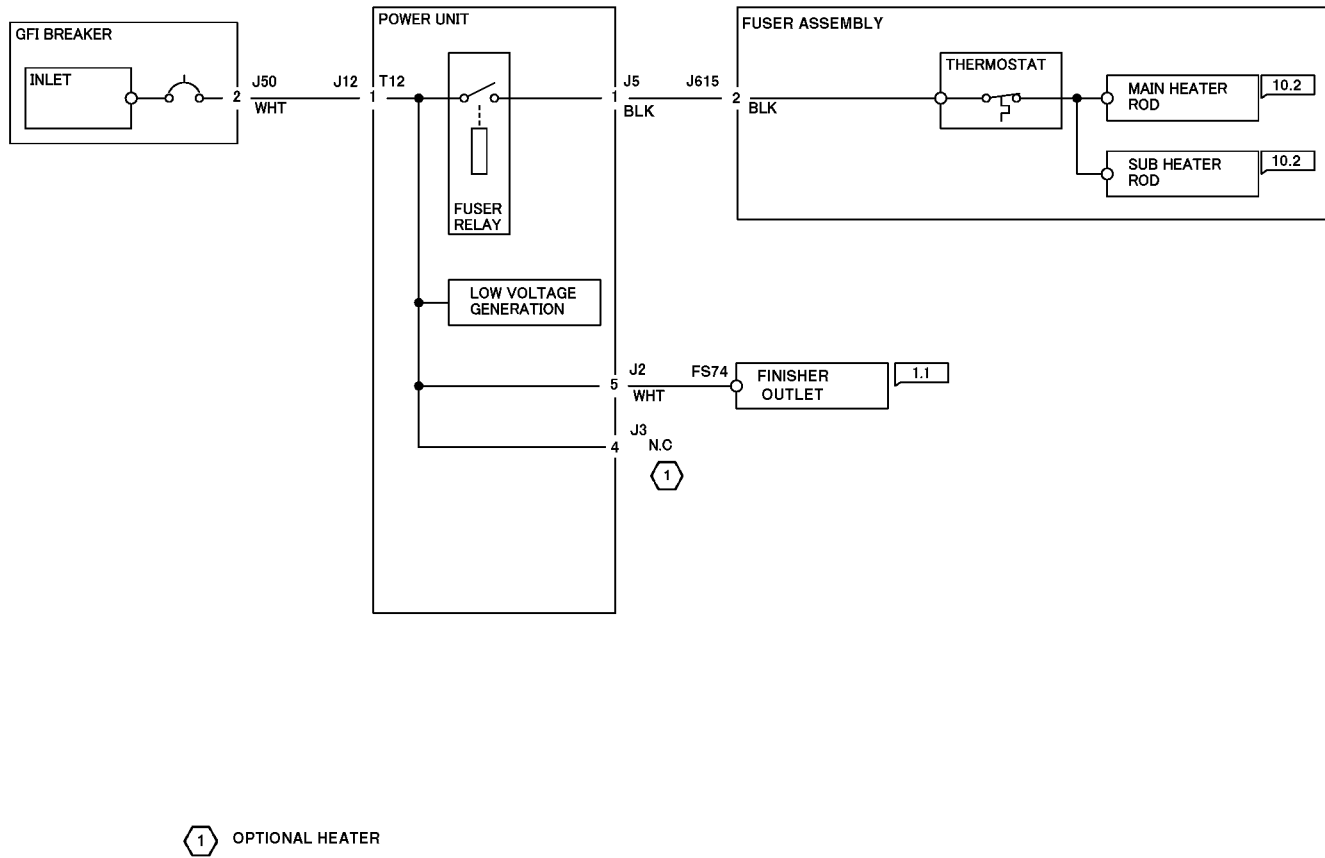


1720001:

Figure 1 Wire Net AC POWER (HOT)

7.3.2 Wire Net AC POWER (NUT)

7.3.2 WIRE NET AC POWER (NEUTRAL)

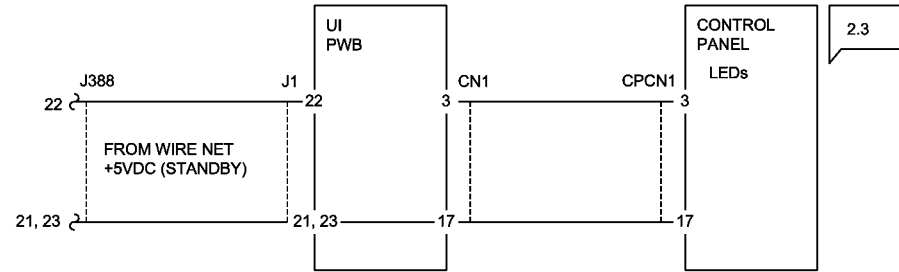
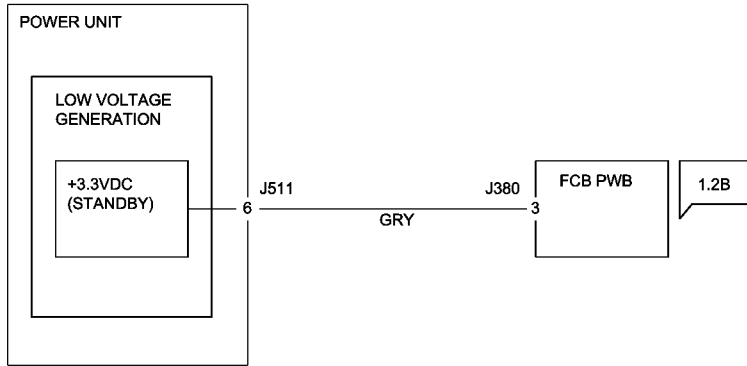


t720002

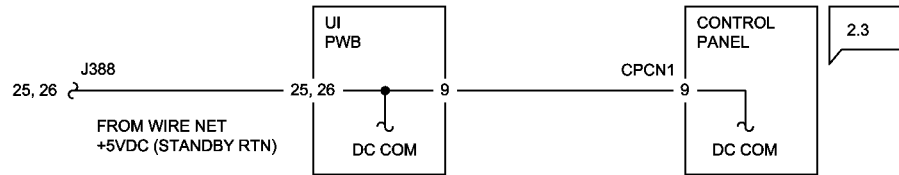
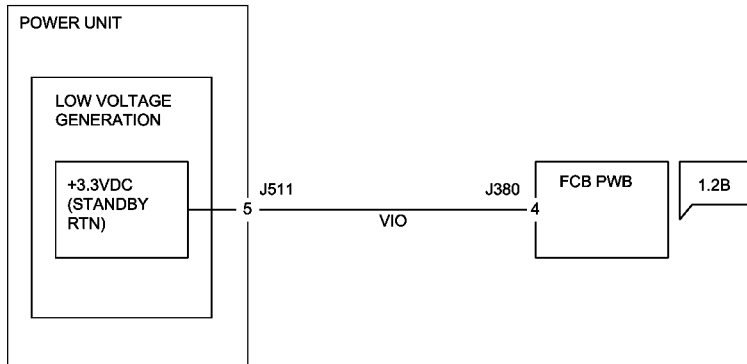
Figure 1 Wire Net AC POWER (NUT)

7.3.3 Wire Net +3.3VDC (Standby, Standby RTN)

WIRE NET +3.3VDC (STANDBY)



WIRE NET +3.3VDC (STANDBY RTN)

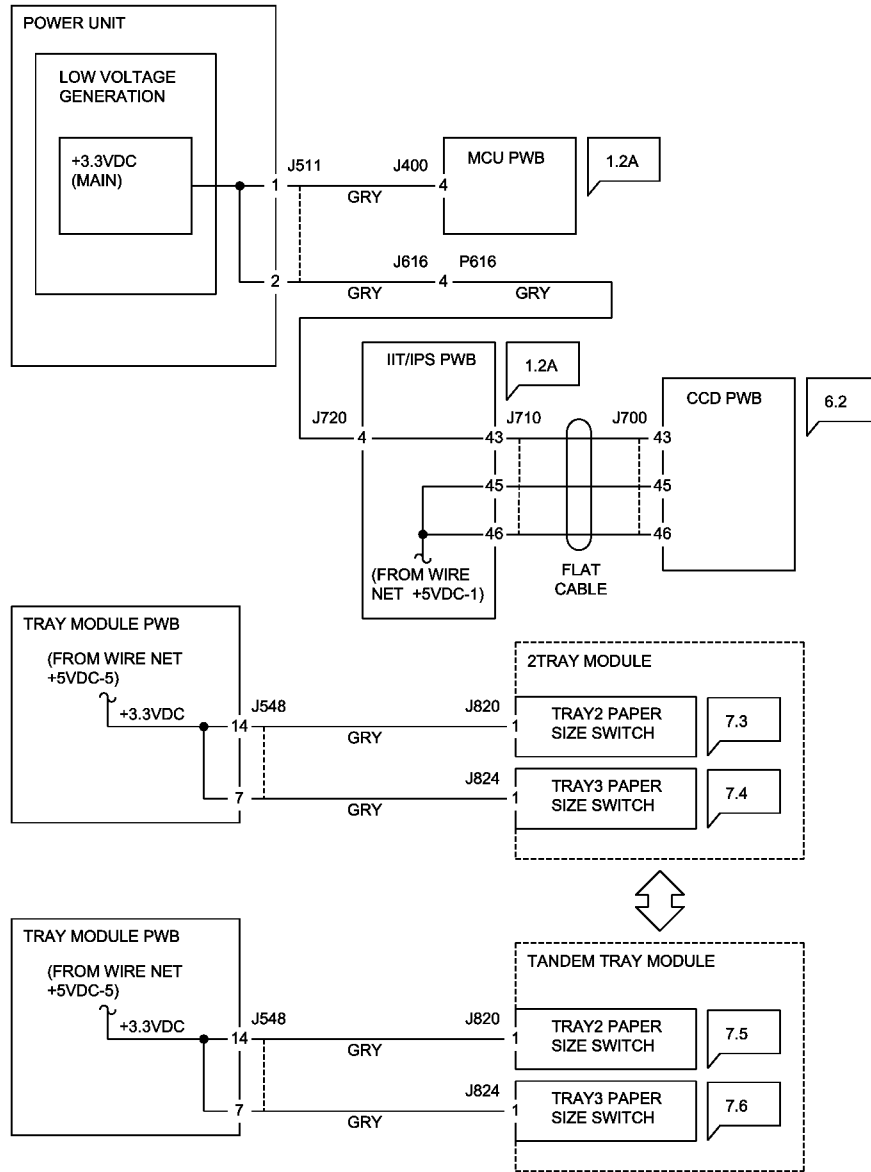


T720003A-ELN

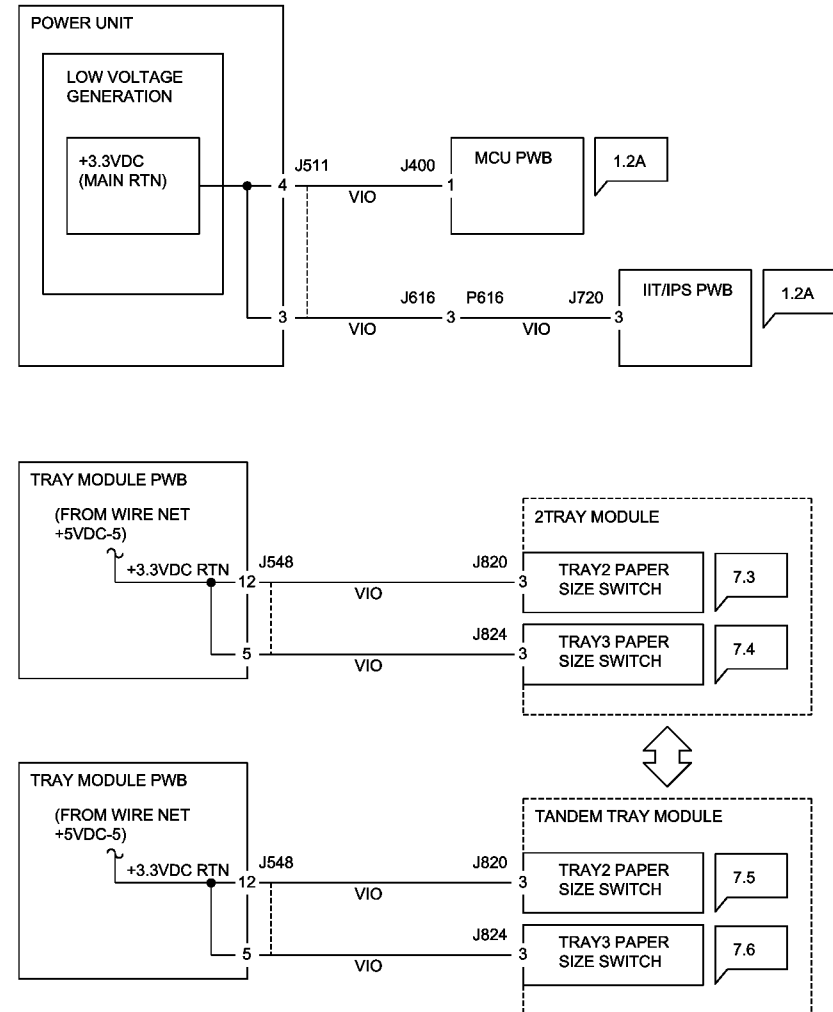
Figure 1 Wire Net +3.3VDC (STANDBY, STANDBY RETURN)

7.3.4 Wire Net +3.3VDC (Main, Main RTN)

WIRE NET +3.3VDC (MAIN)



WIRE NET +3.3VDC (MAIN RTN)

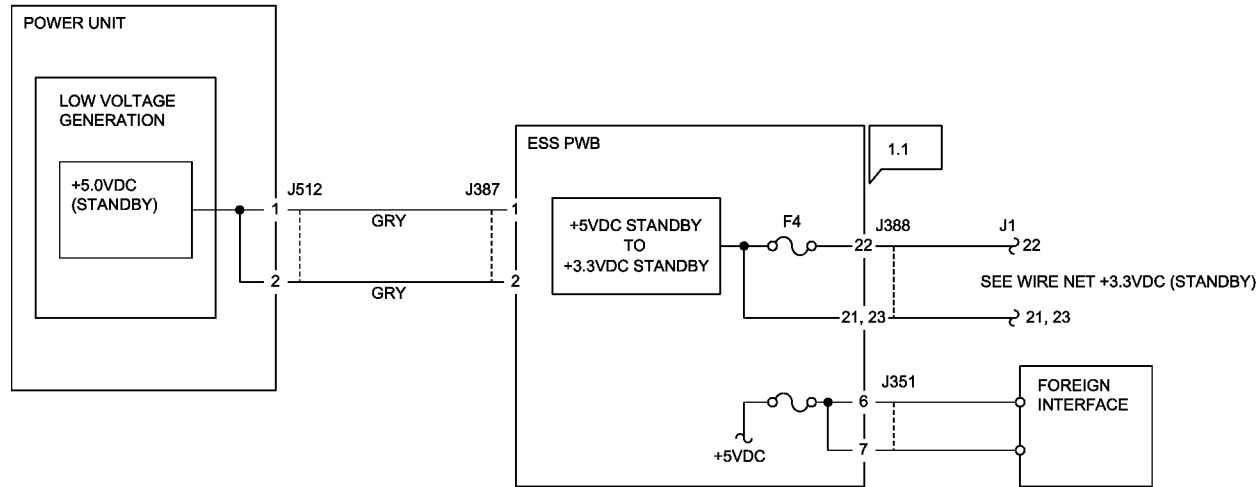


T720004A-ELN

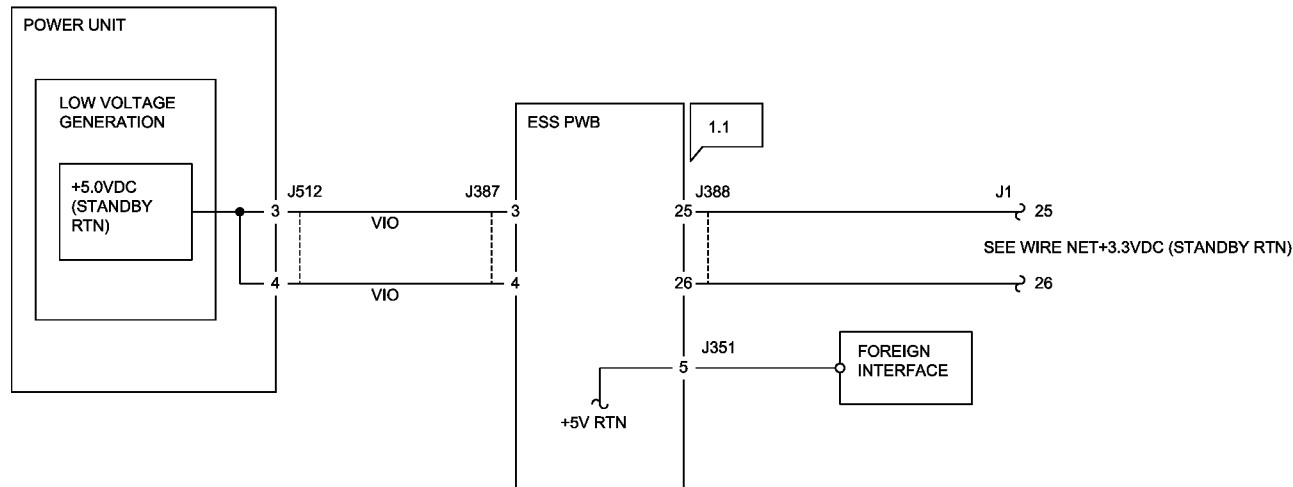
Figure 1 Wire Net +3.3VDC (Main, Main RTN)

7.3.5 Wire Net +5VDC (Standby, Standby RTN)

WIRE NET +5.0VDC (STANDBY)



WIRE NET +5.0VDC (STANDBY RTN)

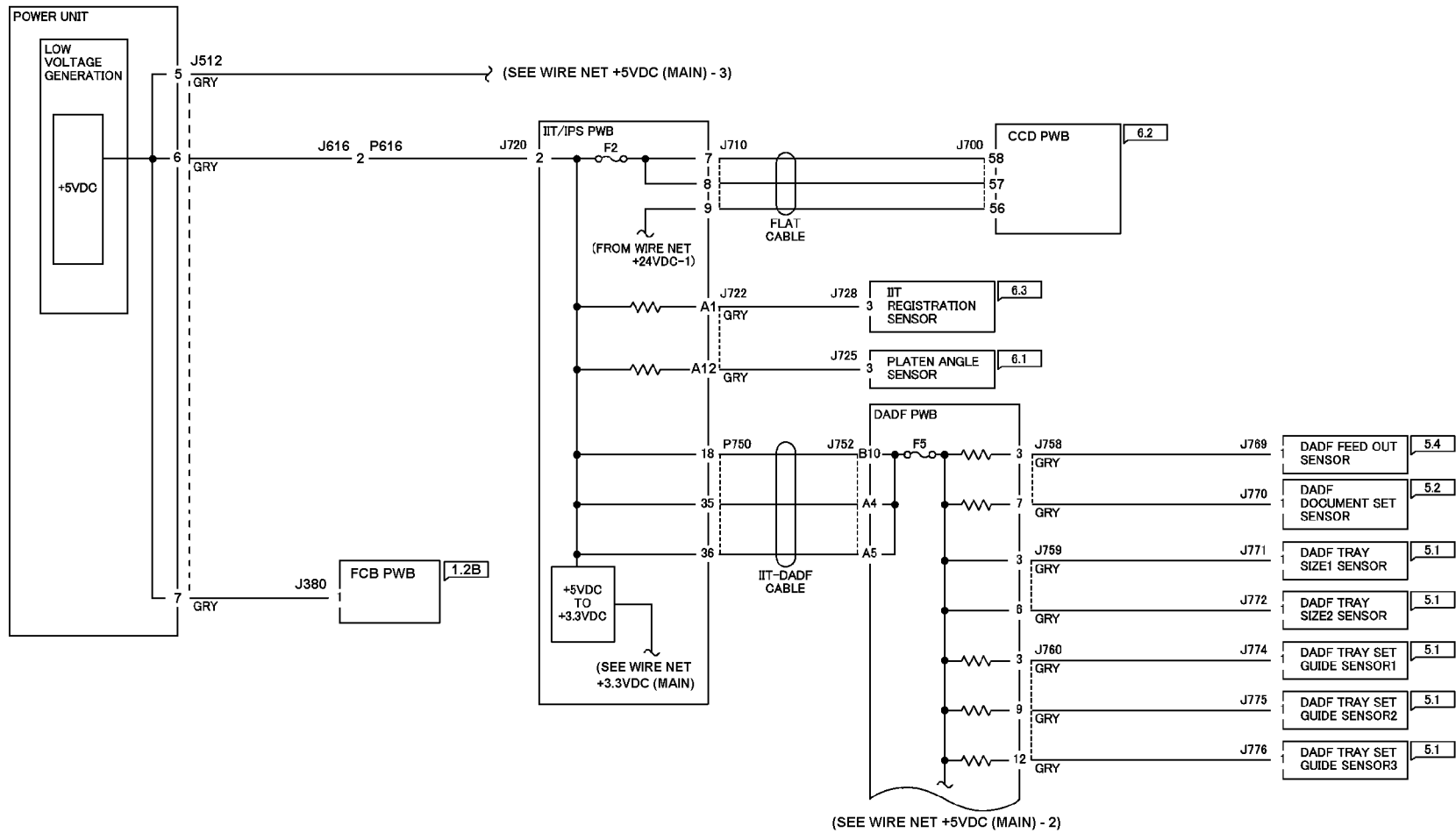


T720005A-ELN

Figure 1 Wire Net +5VDC (Standby, Standby RTN)

7.3.6 Wire Net +5VDC (Main)-1

WIRE NET +5VDC (MAIN)-1



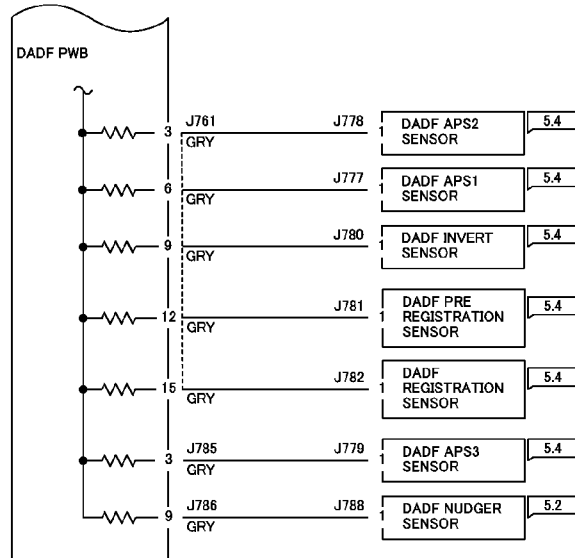
T720006A-ELN

Figure 1 Wire Net +5VDC (Main)-1

7.3.7 Wire Net +5VDC (Main)-2

WIRE NET +5VDC (MAIN) -2

(FROM WIRE NET +5VDC (MAIN) -1)



T720007A-ELN

Figure 1 Wire Net +5VDC (Main)-2

7.3.8 Wire Net +5VDC-3

WIRE NET +5VDC (MAIN) - 3

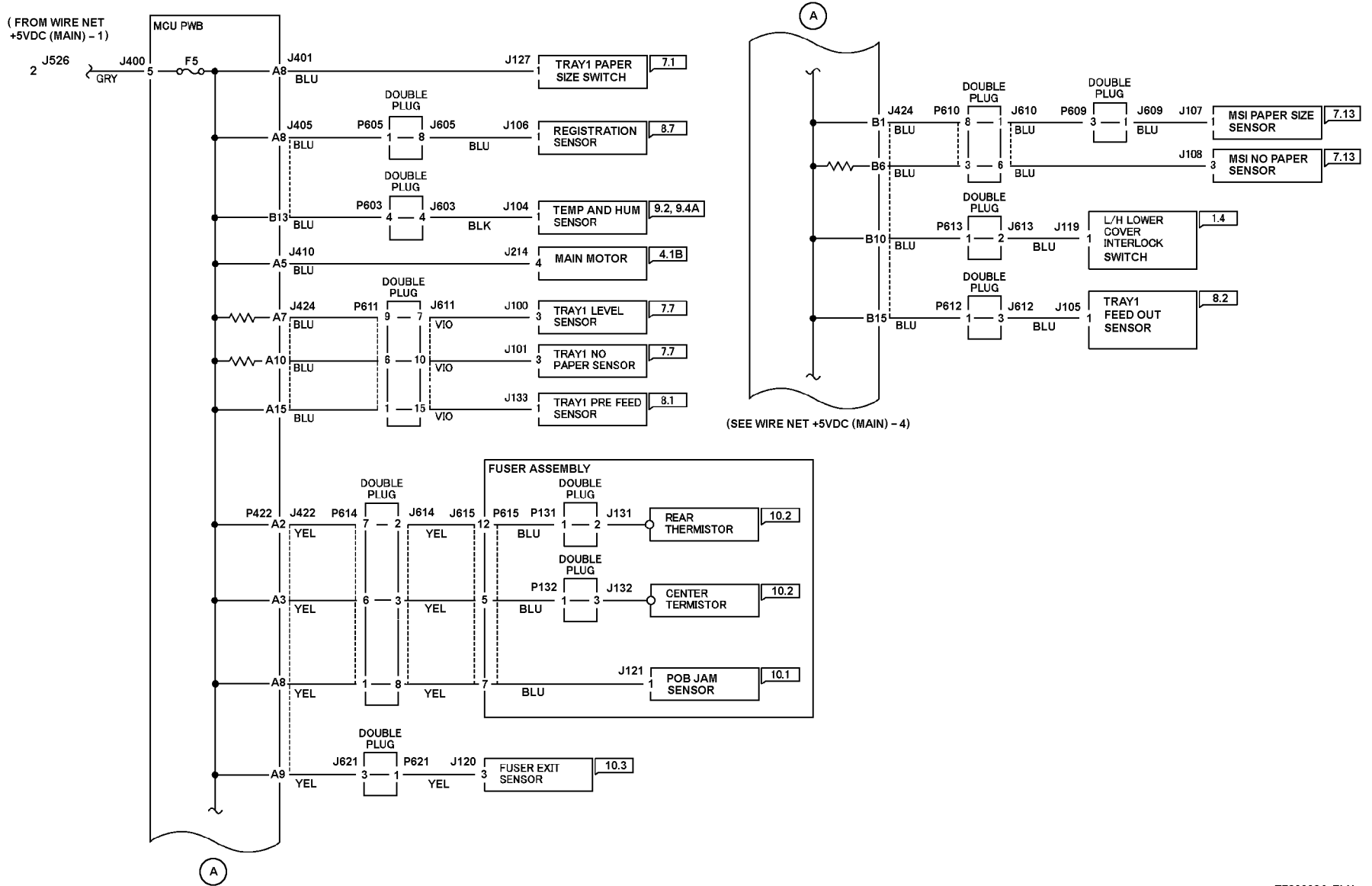


Figure 1 Wire Net +5VDC-3

7.3.9 Wire Net +5VDC-4

WIRE NET +5VDC (MAIN) – 4

(FROM WIRE NET +5VDC (MAIN) – 3)

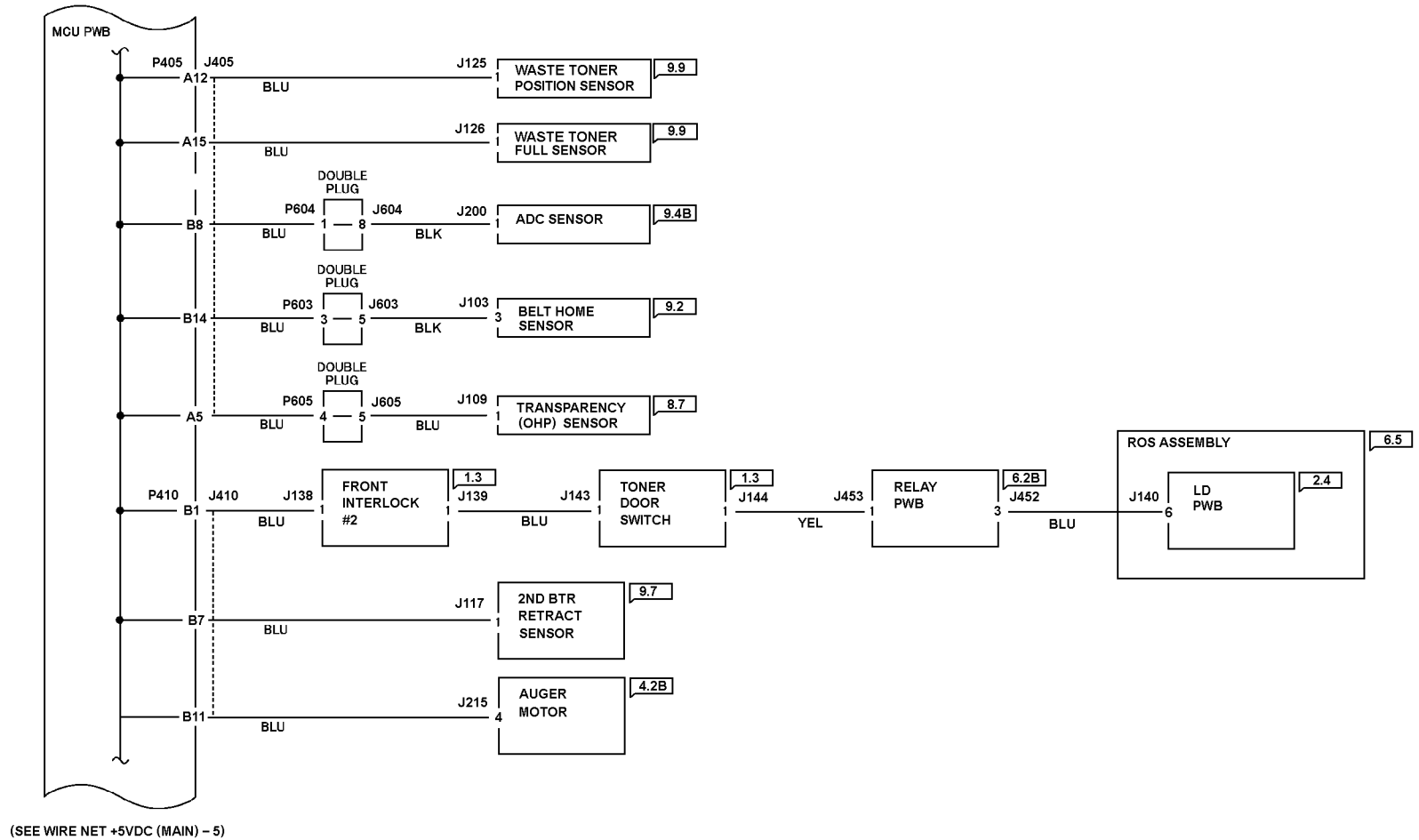


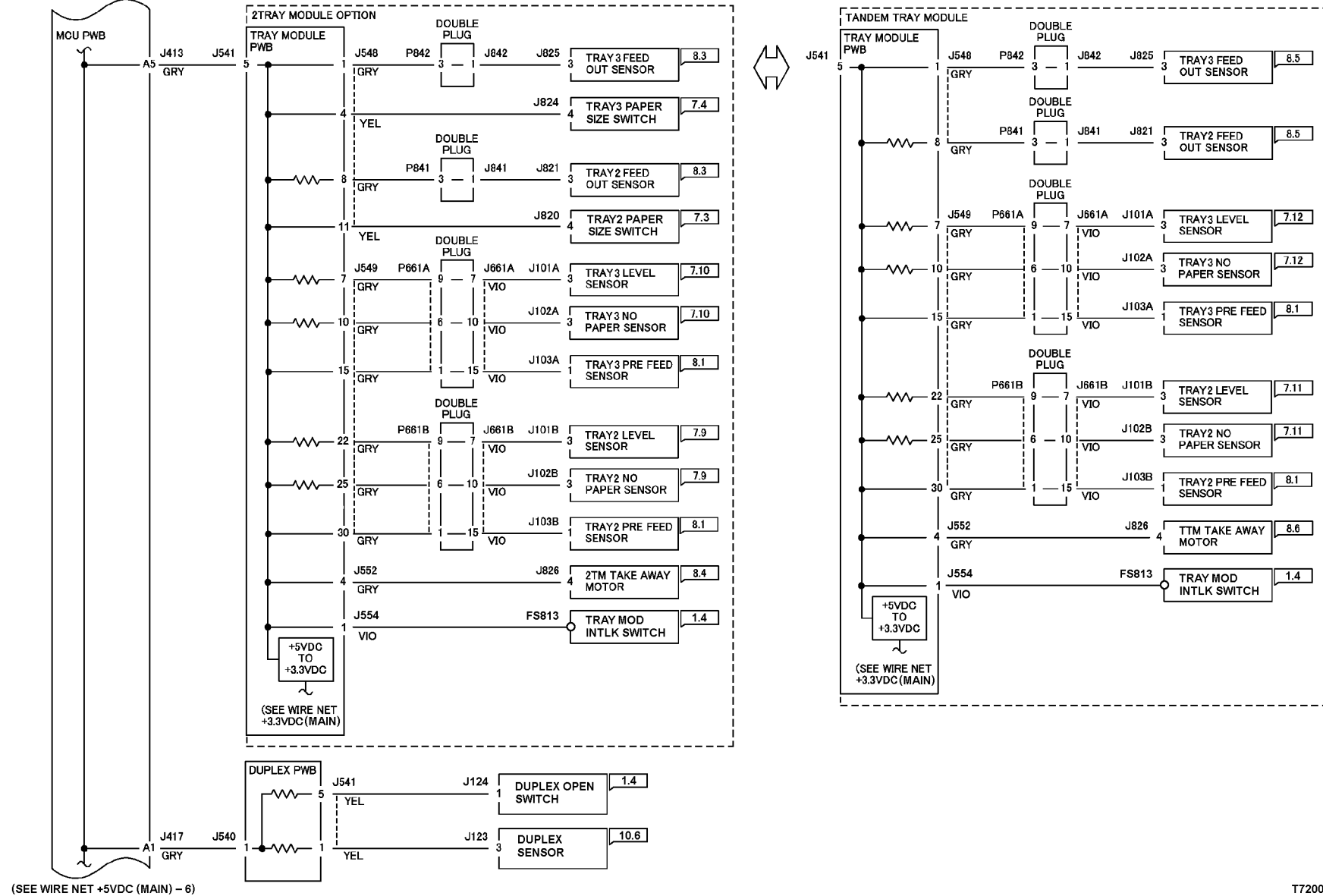
Figure 1 Wire Net +5VDC-3

T72009A-ELN

7.3.10 Wire Net +5VDC-5

WIRE NET +5VDC (MAIN) - 5

(FROM WIRE NET +5VDC (MAIN) - 4)



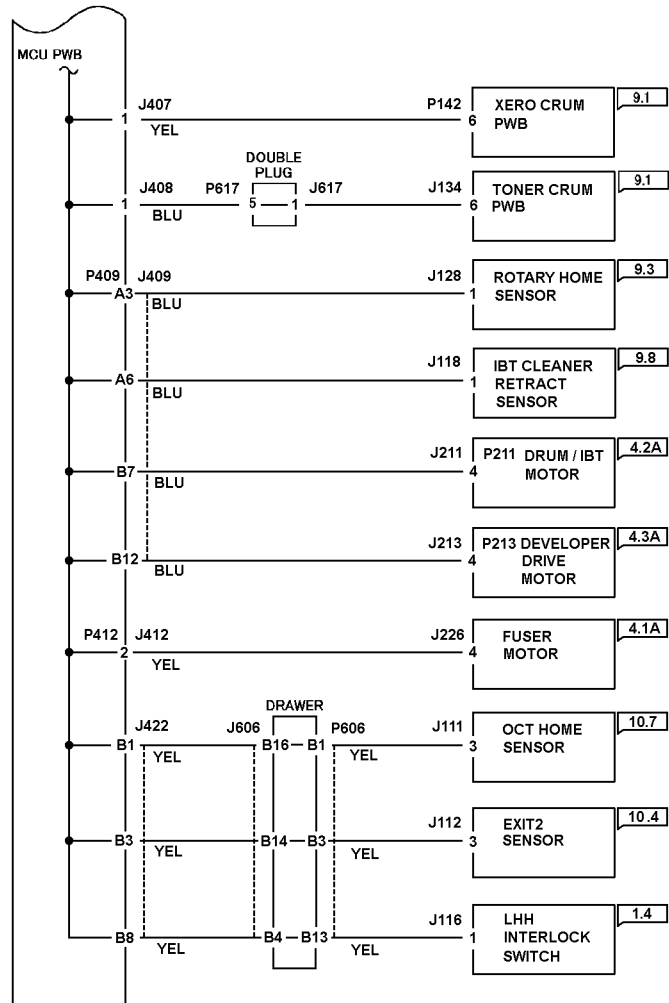
T720010A-ELN

Figure 1 Wire Net +5VDC-5

7.3.11 Wire Net +5VDC-6

WIRE NET +5VDC (MAIN) - 6

(FROM WIRE NET +5VDC (MAIN) - 5)



T720011A-ELN

Figure 1 Wire Net +5VDC-6

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Figure 1 Blank

7.3.14 Wire Net DC COM (+5VRTN)-1

WIRE NET DC COM (+5VRTN) - 1

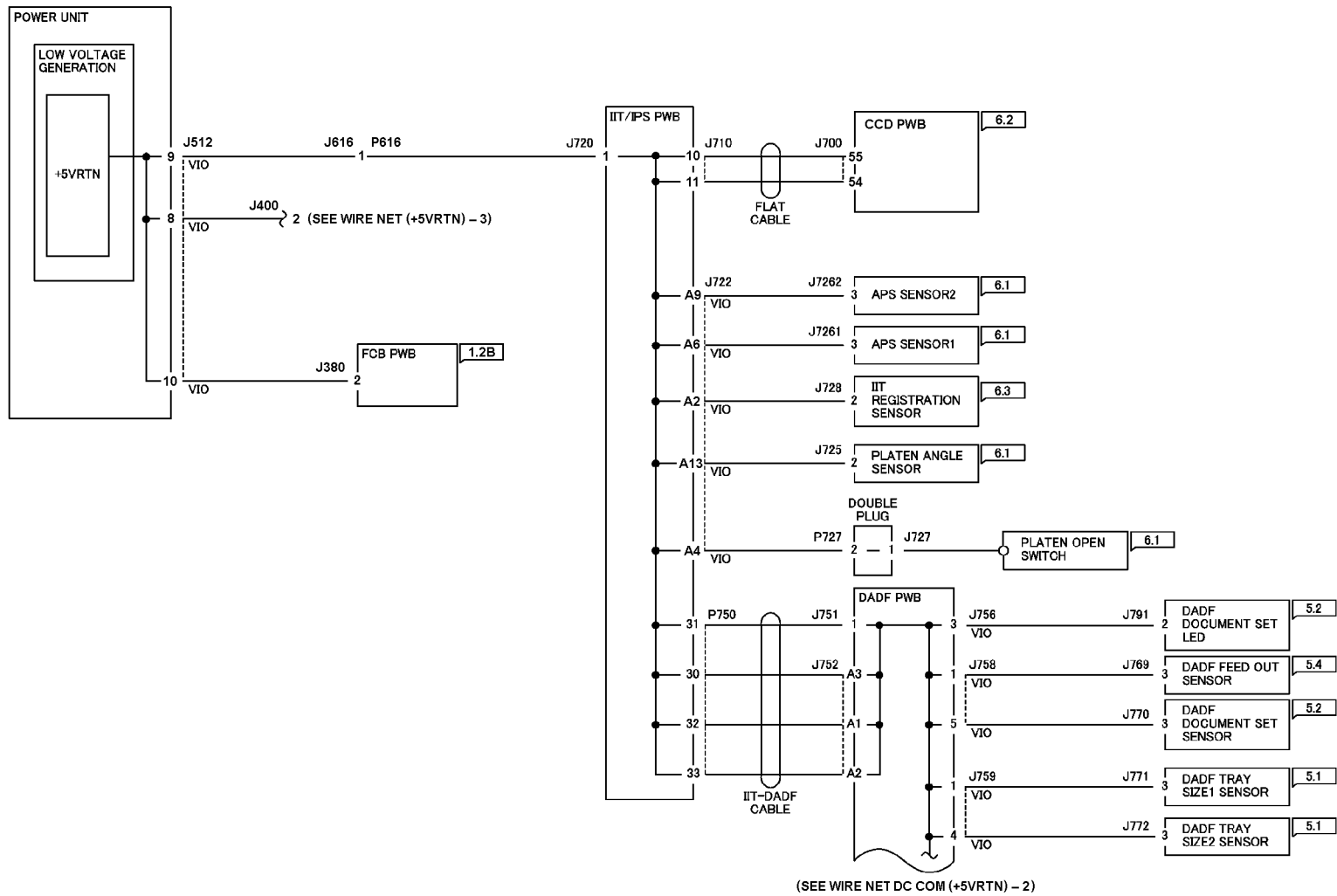


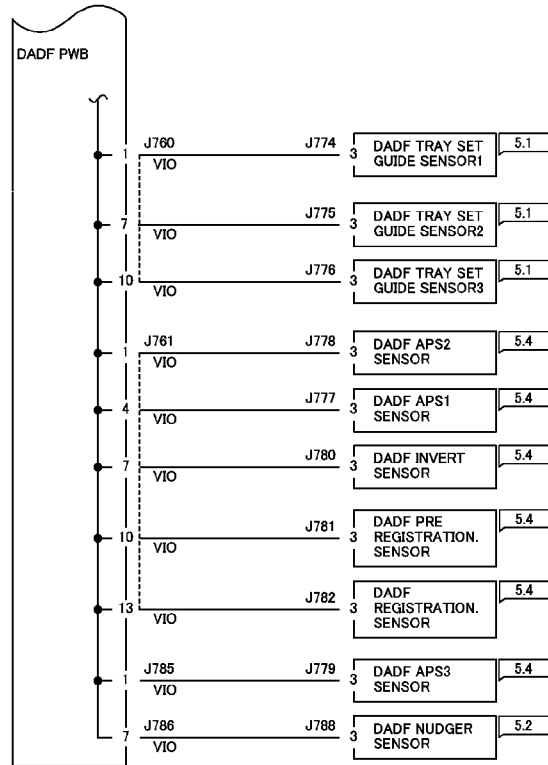
Figure 1 Wire Net DC COM (+5VRTN)-1

T720014A-ELN

7.3.15 Wire Net DC COM (+5VRTN)-2

WIRE NET DC COM (+5VRTN) - 2

(FROM WIRE NET DC COM (+5VRTN) - 1)

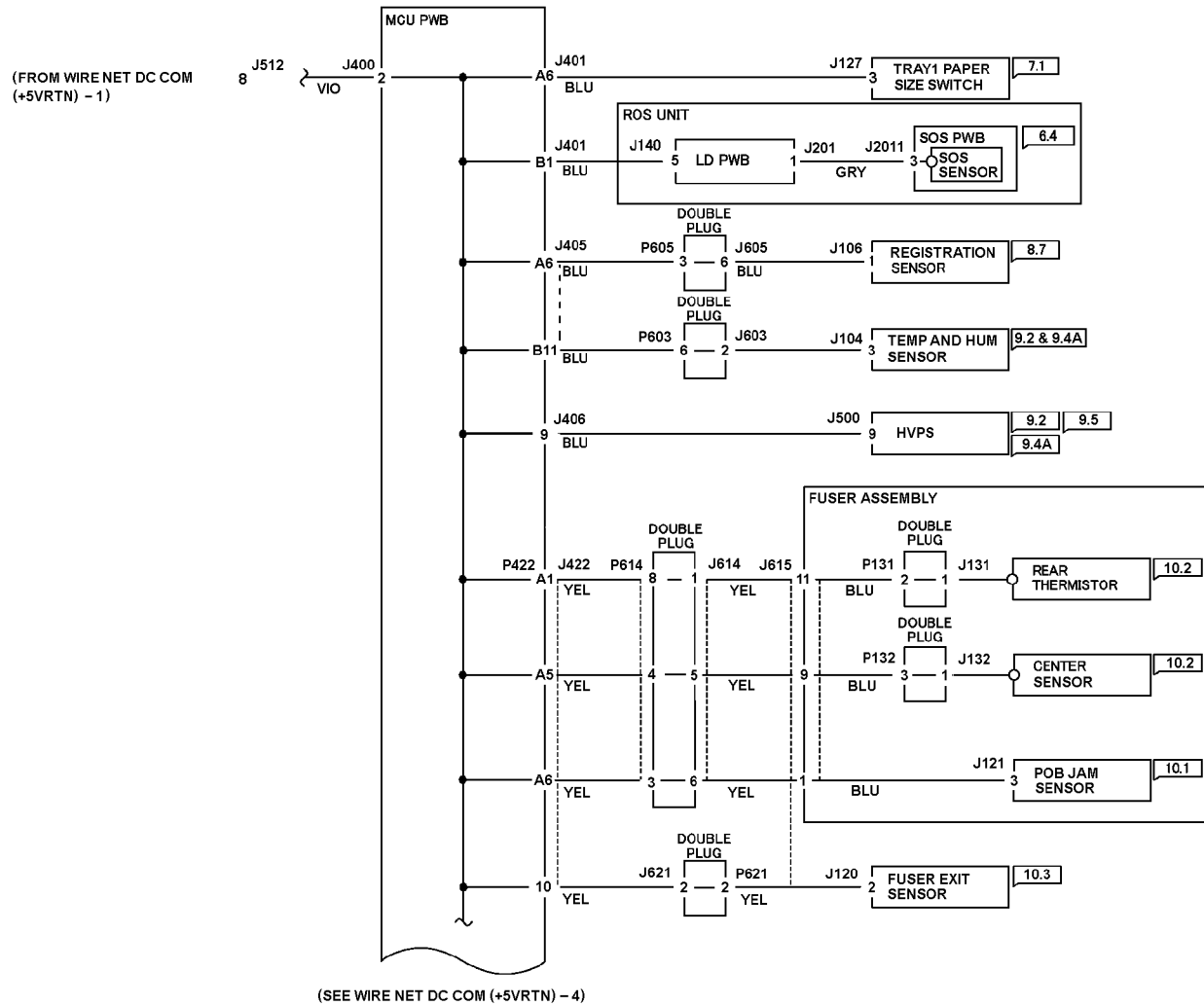


T720015A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-2

7.3.16 Wire Net DC COM (+5VRTN)-3

Wire Net DC COM (+5VRTN) - 3



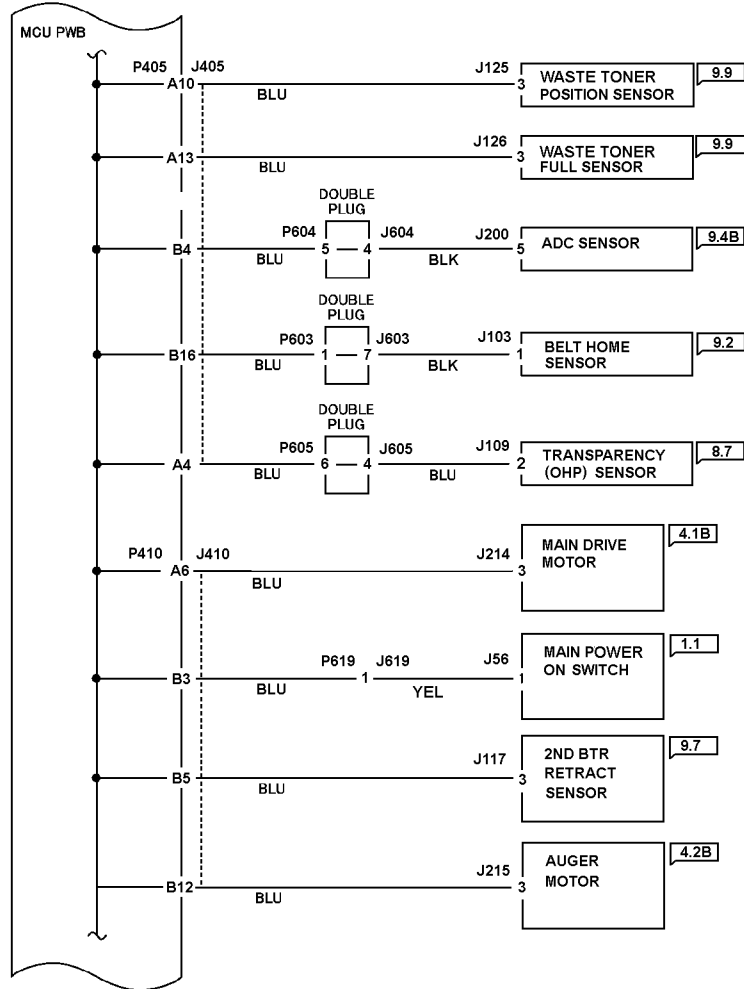
T720016A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-3

7.3.17 Wire Net DC COM (+5VRTN)-4

WIRE NET DC COM (+5VRTN) – 4

(FROM WIRE NET DC COM (+5VRTN) – 3)



(SEE WIRE NET DC COM (+5VRTN) – 5)

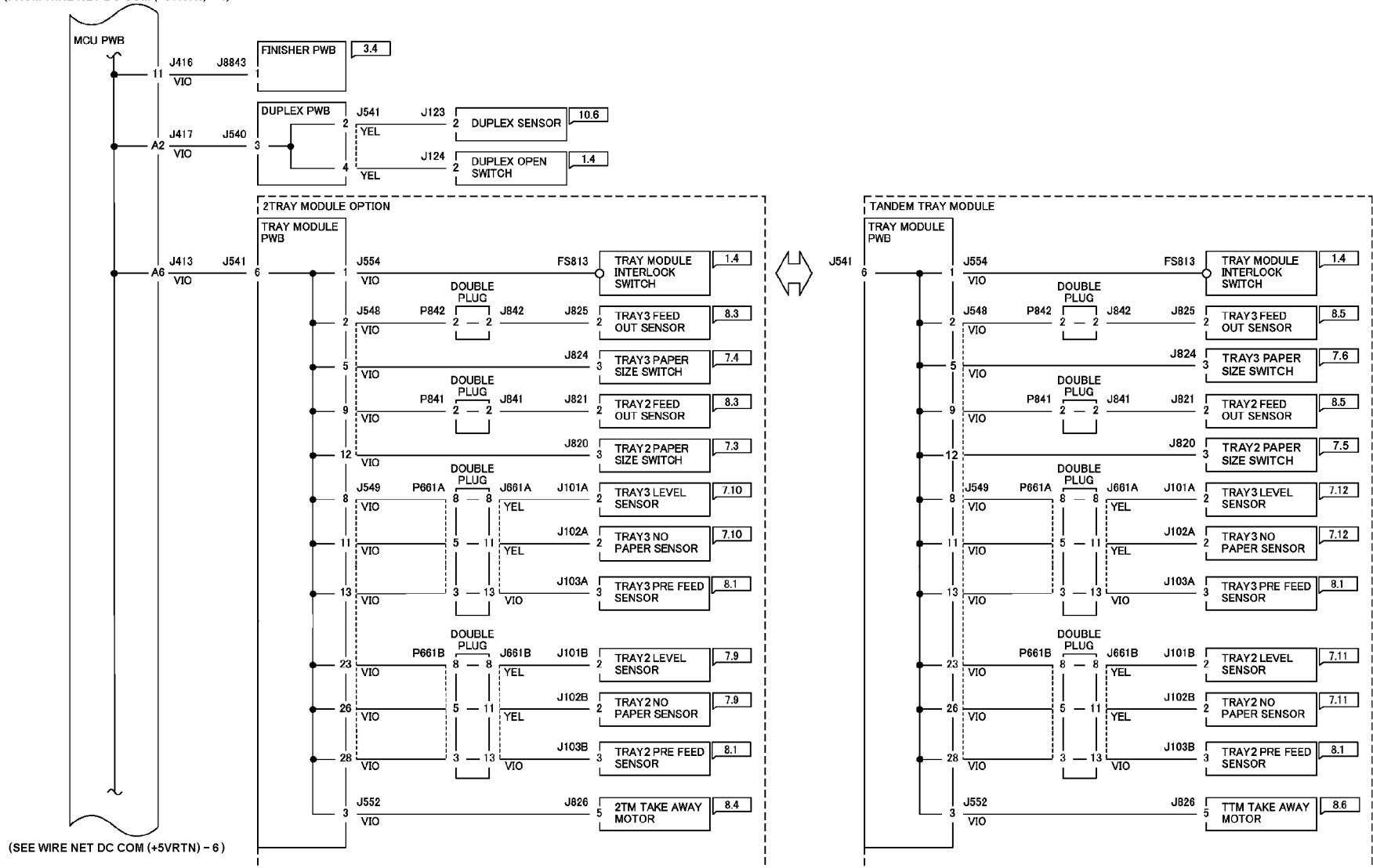
T720017A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-4

7.3.18 Wire Net DC COM (+5VRTN)-5

WIRE NET DC COM (+5VRTN)-5

(FROM WIRE NET DC COM (+5VRTN) - 4)



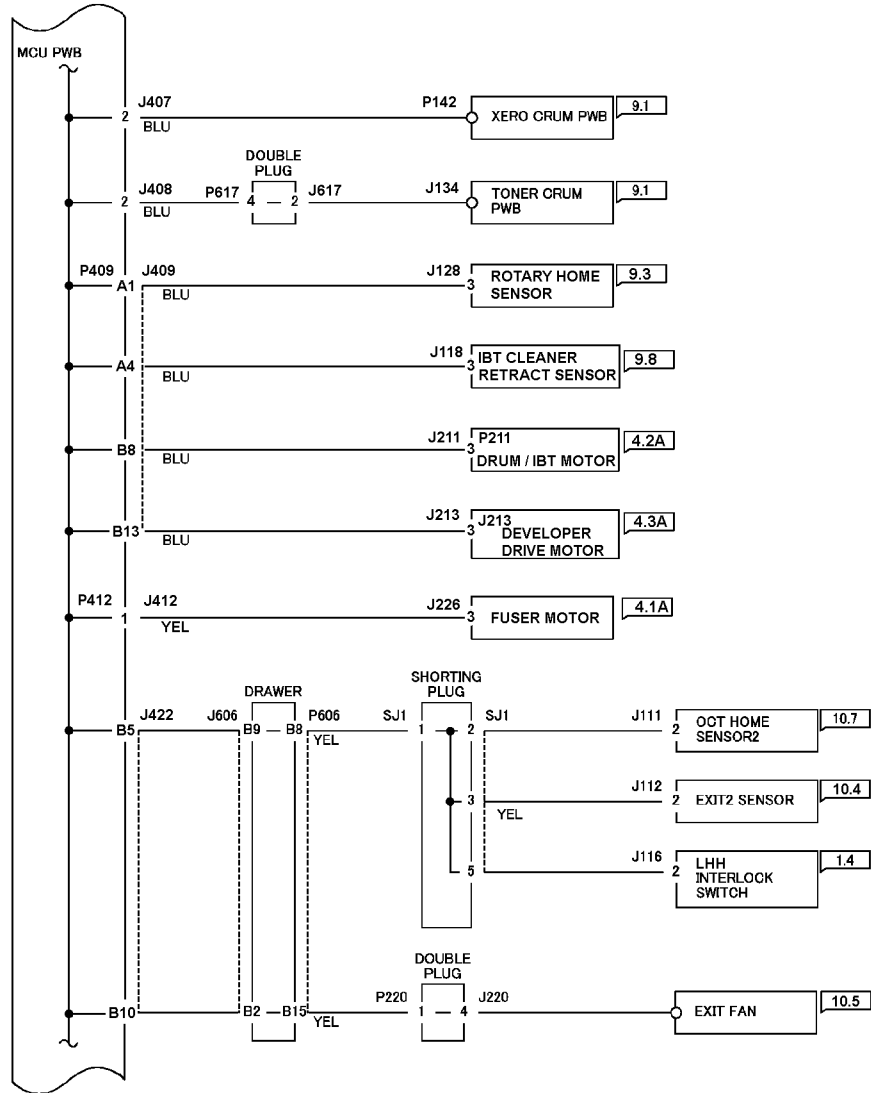
T720018A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-5

7.3.19 Wire Net DC COM (+5VRTN)-6

WIRE NET DC COM(+5VRTN)-6

(FROM WIRE NET DC COM (+5VRTN)-5)



(SEE WIRE NET DC COM (+5VRTN) - 7)

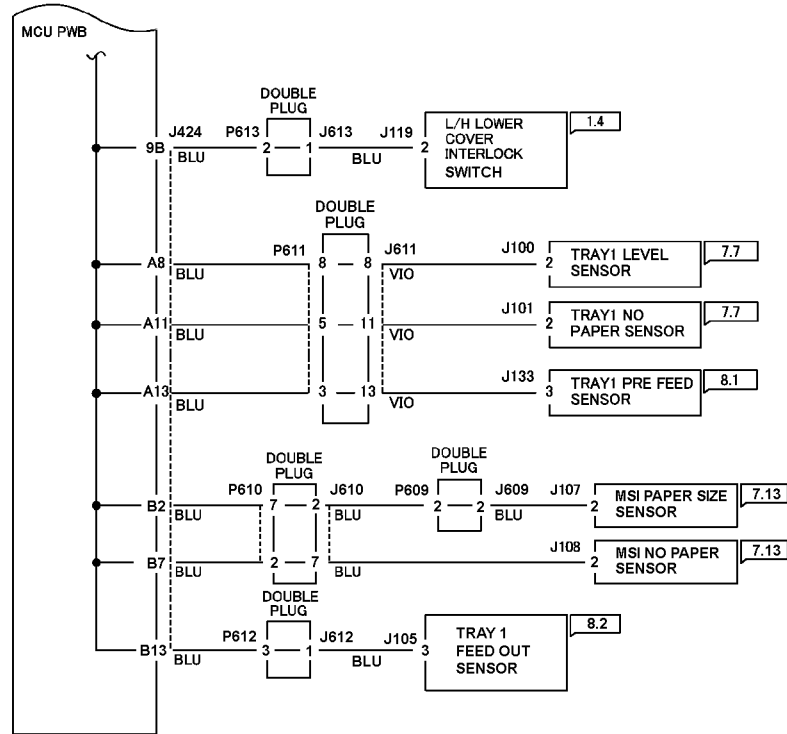
T720019A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-6

7.3.20 Wire Net DC COM (+5VRTN)-7

WIRE NET DC COM (+5VRTN) -7

(FROM WIRE NET DC COM (+5VRTN) -6)



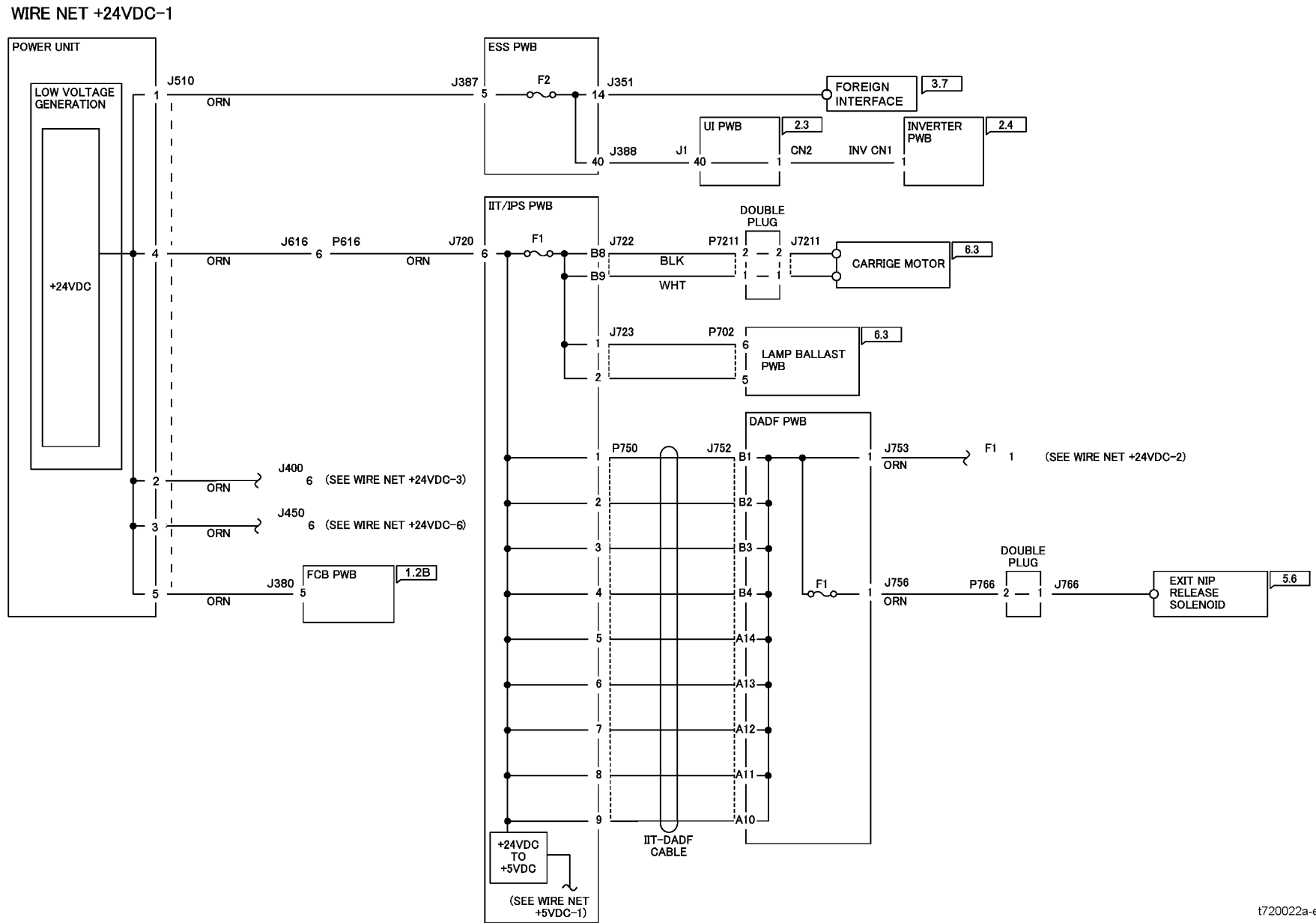
T720020A-ELN

Figure 1 Wire Net DC COM (+5VRTN)-7

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Figure 1 Blank

7.3.22 Wire Net +24VDC-1

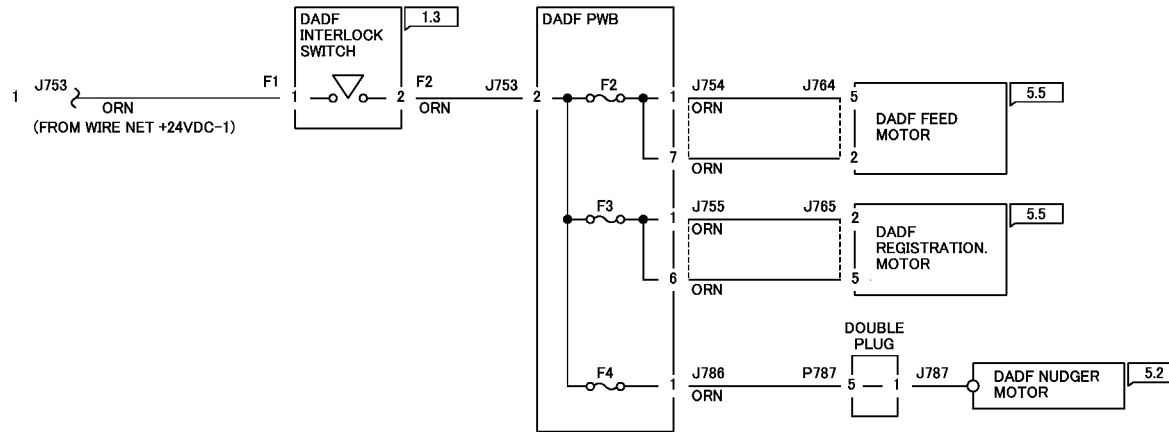


t720022a-el

Figure 1 Wire Net +24VDC-1

7.3.23 Wire Net +24VDC-2

WIRE NET +24VDC-2

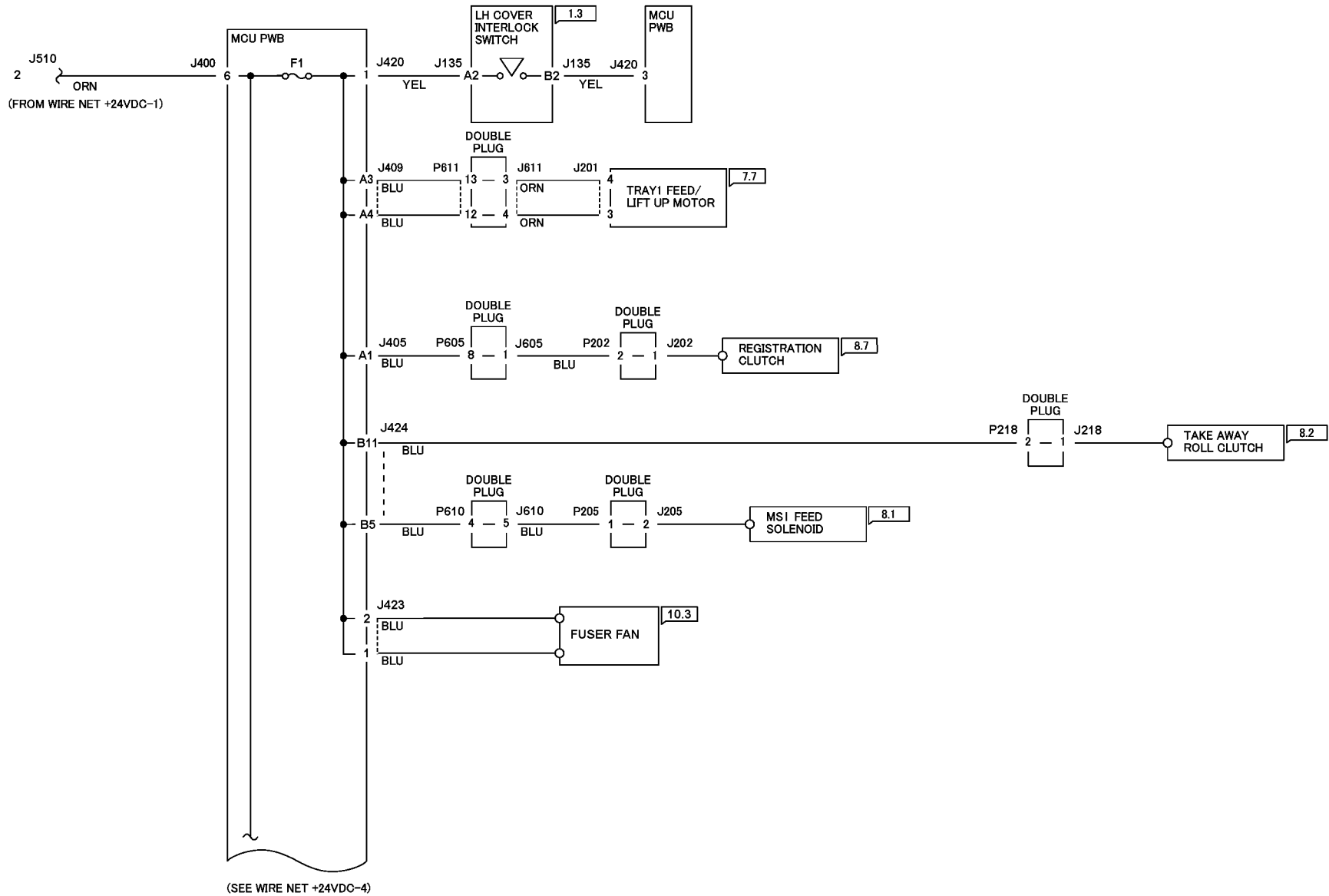


T720023A-ELN

Figure 1 Wire Net +24VDC-2

7.3.24 Wire Net +24VDC-3

WIRE NET +24VDC-3



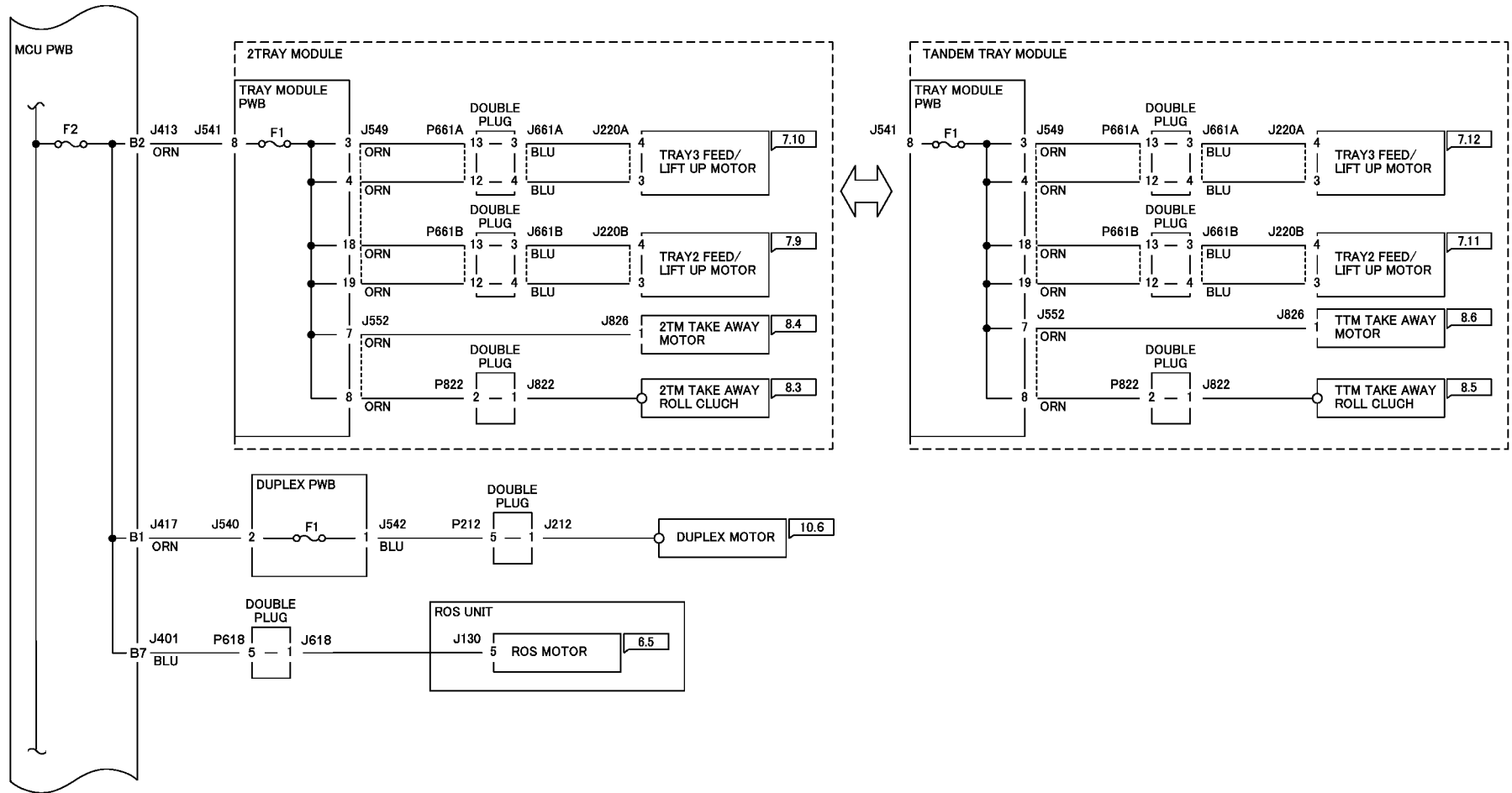
T720024A-ELN

Figure 1 Wire Net +24VDC-3

7.3.25 Wire Net +24VDC-4

WIRE NET +24VDC-4

(FROM WIRE NET +24VDC-3)



(See Wire Net +24VDC - 5)

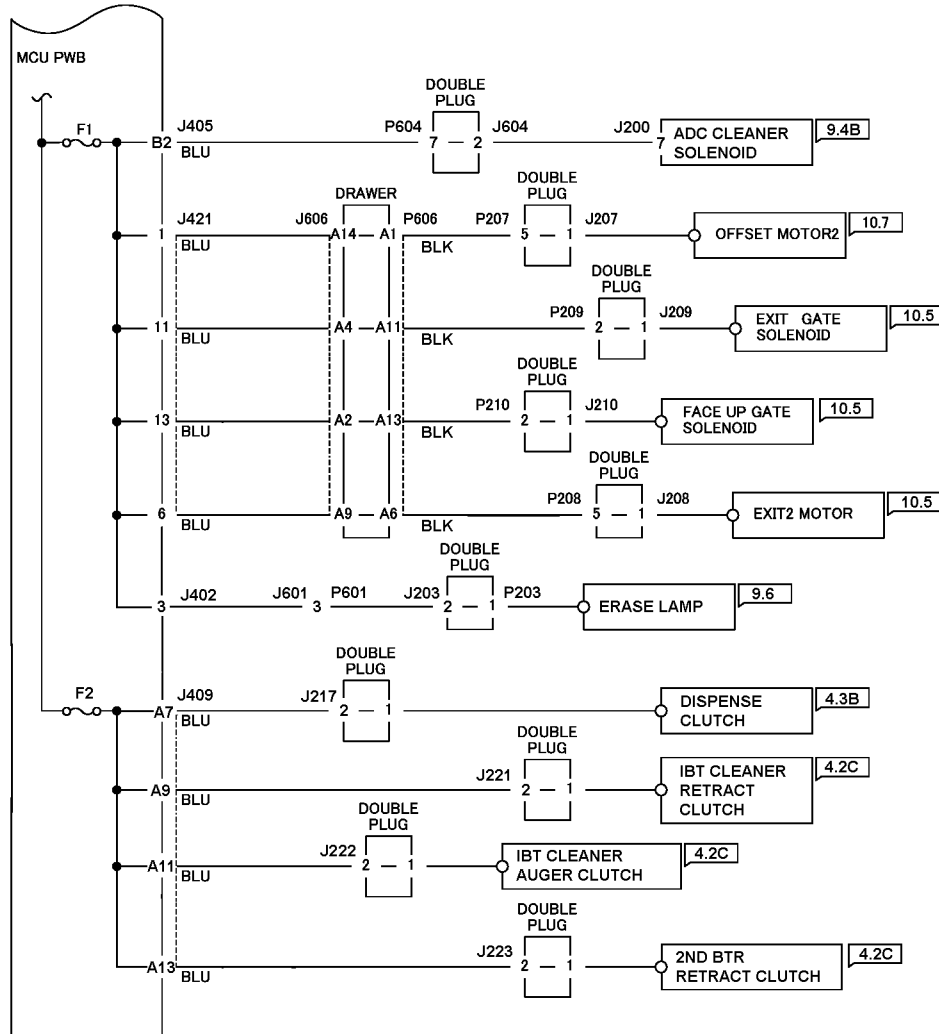
T720025A-ELN

Figure 1 Wire Net +24VDC-4

7.3.26 Wire Net +24VDC-5

WIRE NET +24VDC-5

(FROM WIRE NET +24VDC-4)

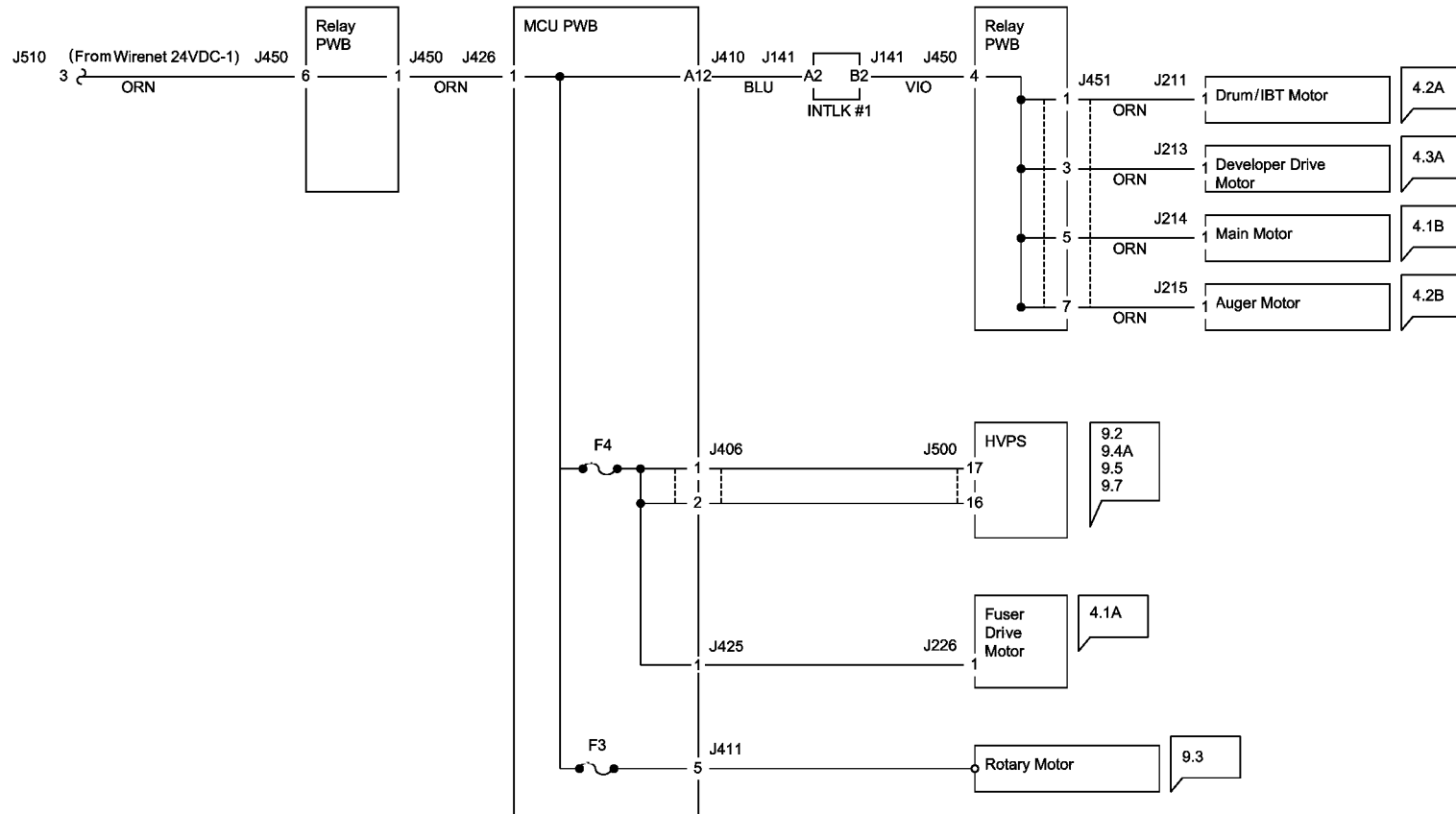


T720026A-ELN

Figure 1 Wire Net +24VDC-5

7.3.27 Wire Net +24VDC-6

WIRENET +24VDC-6

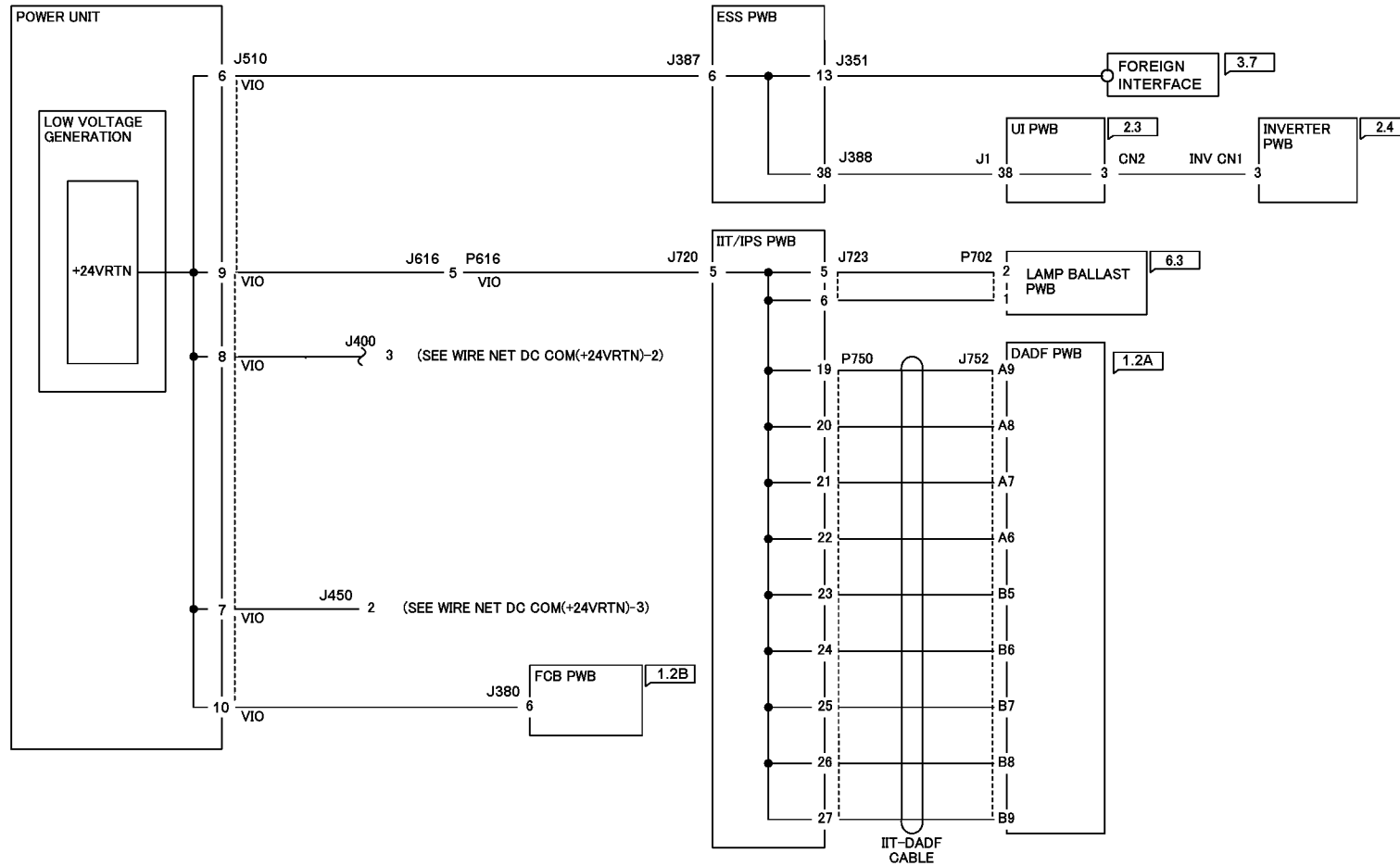


T720027A-ELN

Figure 1 Wire Net +24VDC-6

7.3.28 Wire Net DC COM (+24VRTN)-1

WIRE NET DC COM(+24VRTN)-1

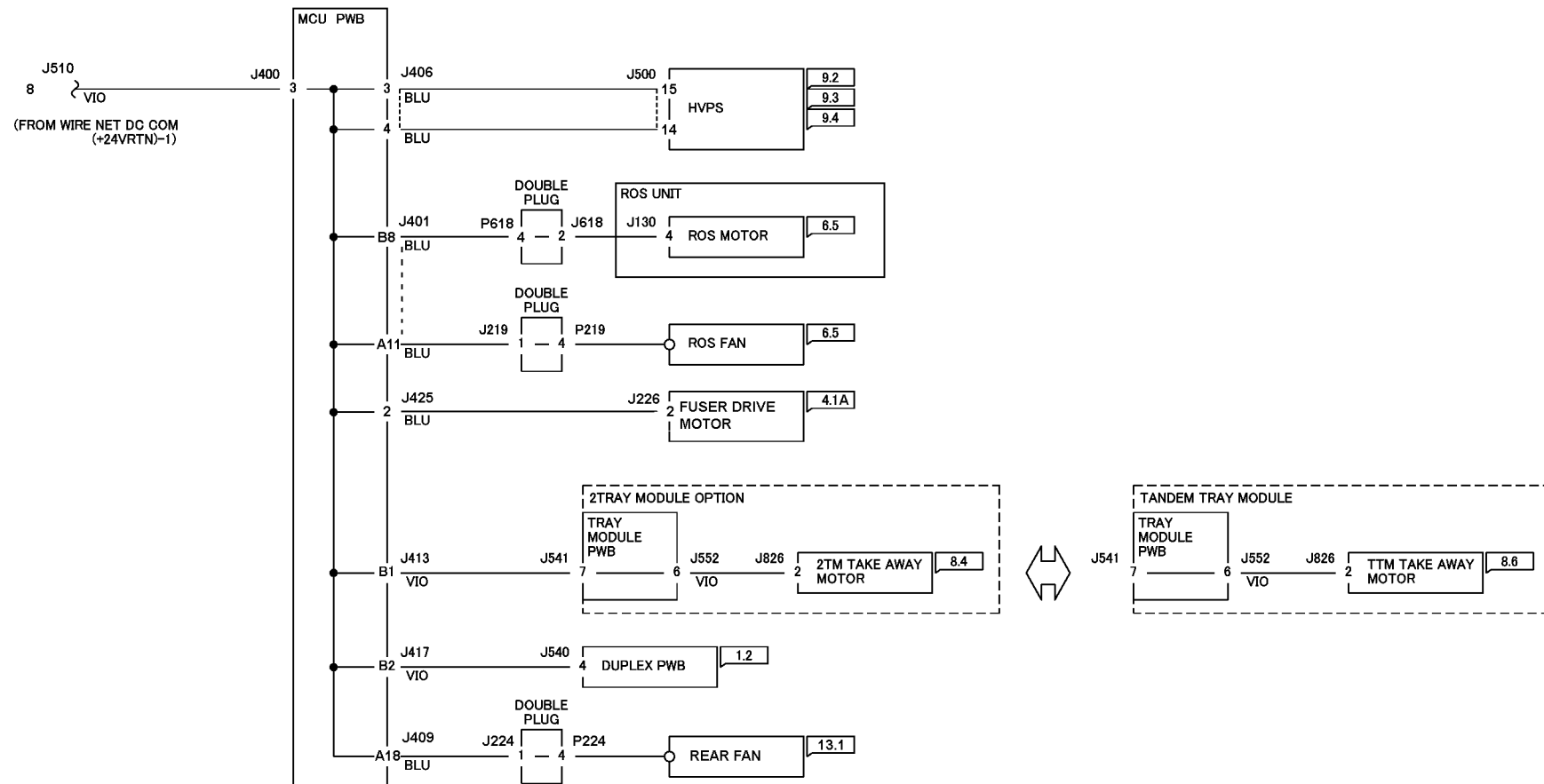


T720028A-ELN

Figure 1 Wire Net DC COM (+24VRTN)-1

7.3.29 Wire Net DC COM (+24VRTN)-2

WIRE NET DC COM(+24VRTN)-2

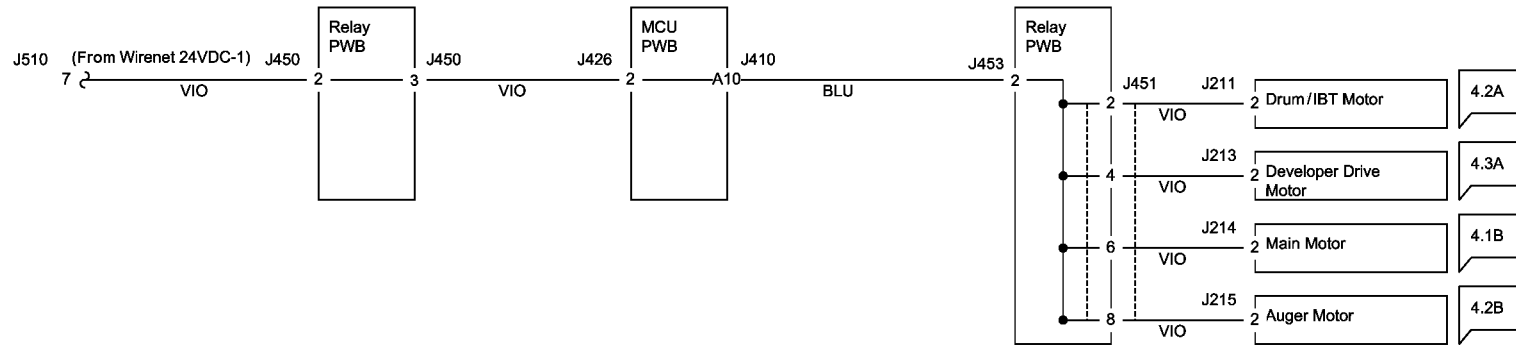


T720029A-ELN

Figure 1 Wire Net DC COM (+24VRTN)-2

7.3.30 Wire Net DC COM (+24VRTN)-3

WIRENET DC COM (+24VRTN) -3



T720030A-ELN

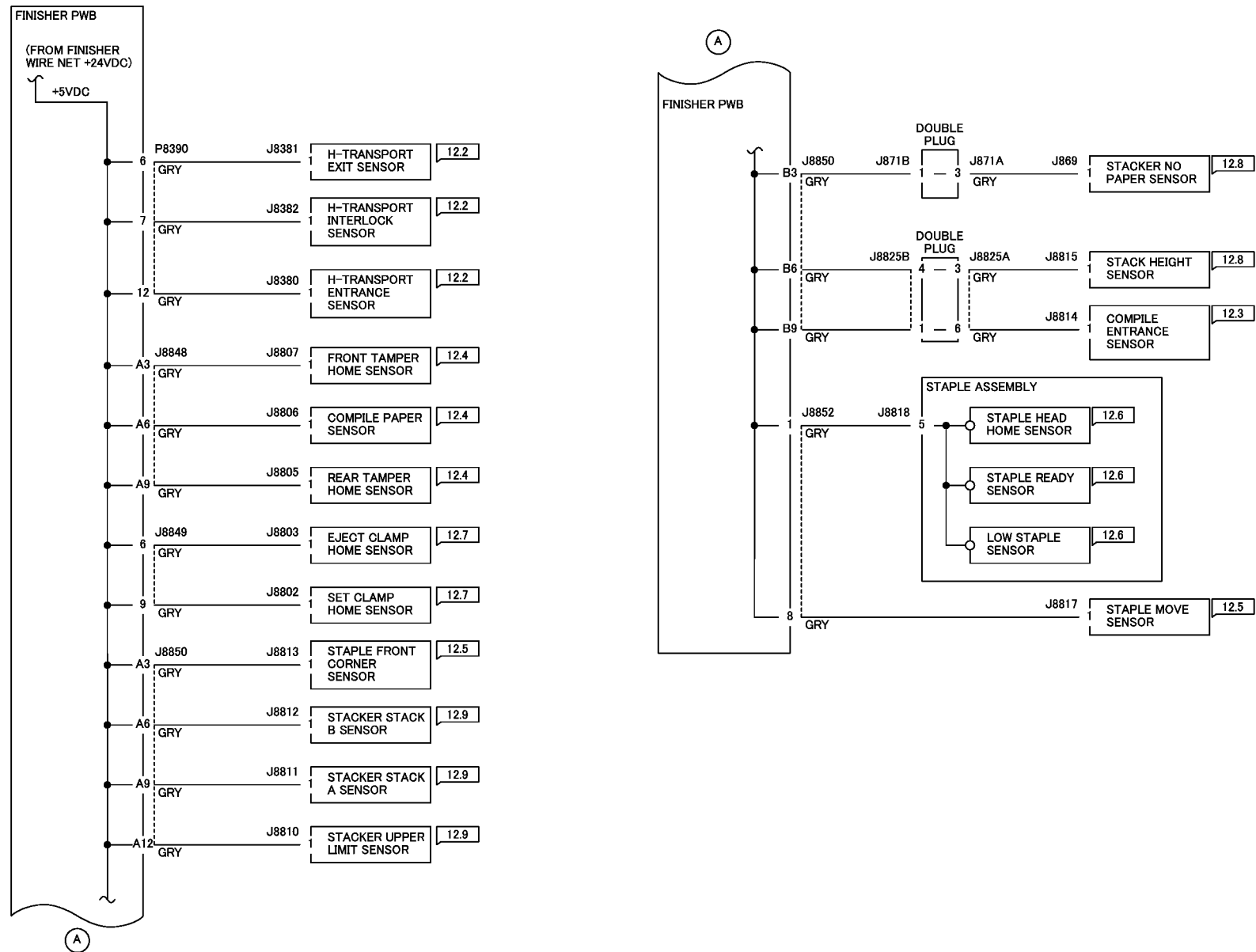
Figure 1 Wire Net DC COM (+24VRTN)-3

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Figure 1 Blank

7.3.32 Finisher Wire Net +5VDC

FINISHER WIRE NET +5VDC

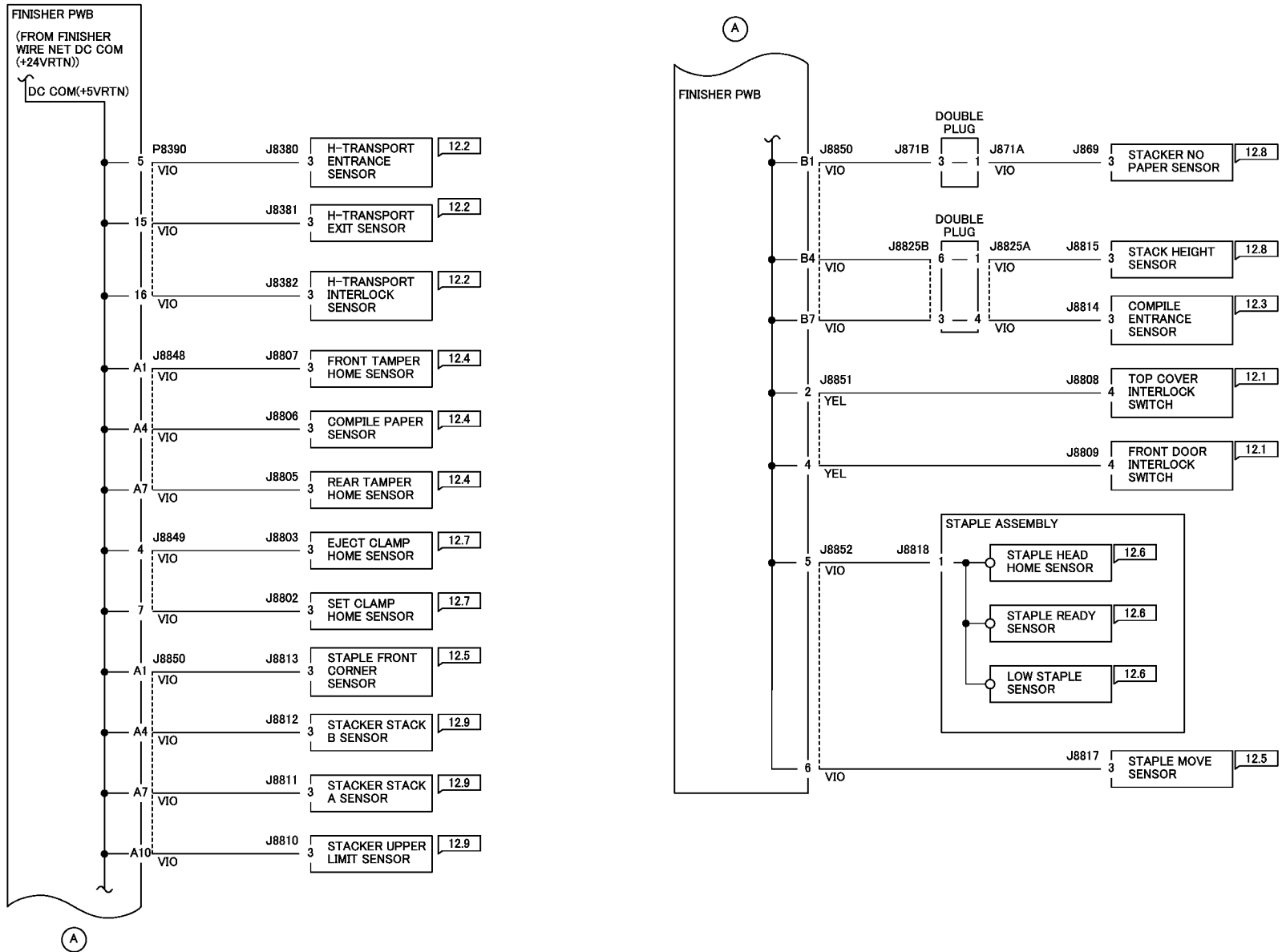


T720032A-ELN

Figure 1 Finisher Wire Net +5VDC

7.3.3 Finisher Wire Net DC COM(+5VRTN)

FINISHER WIRE NET DC COM(+5VRTN)

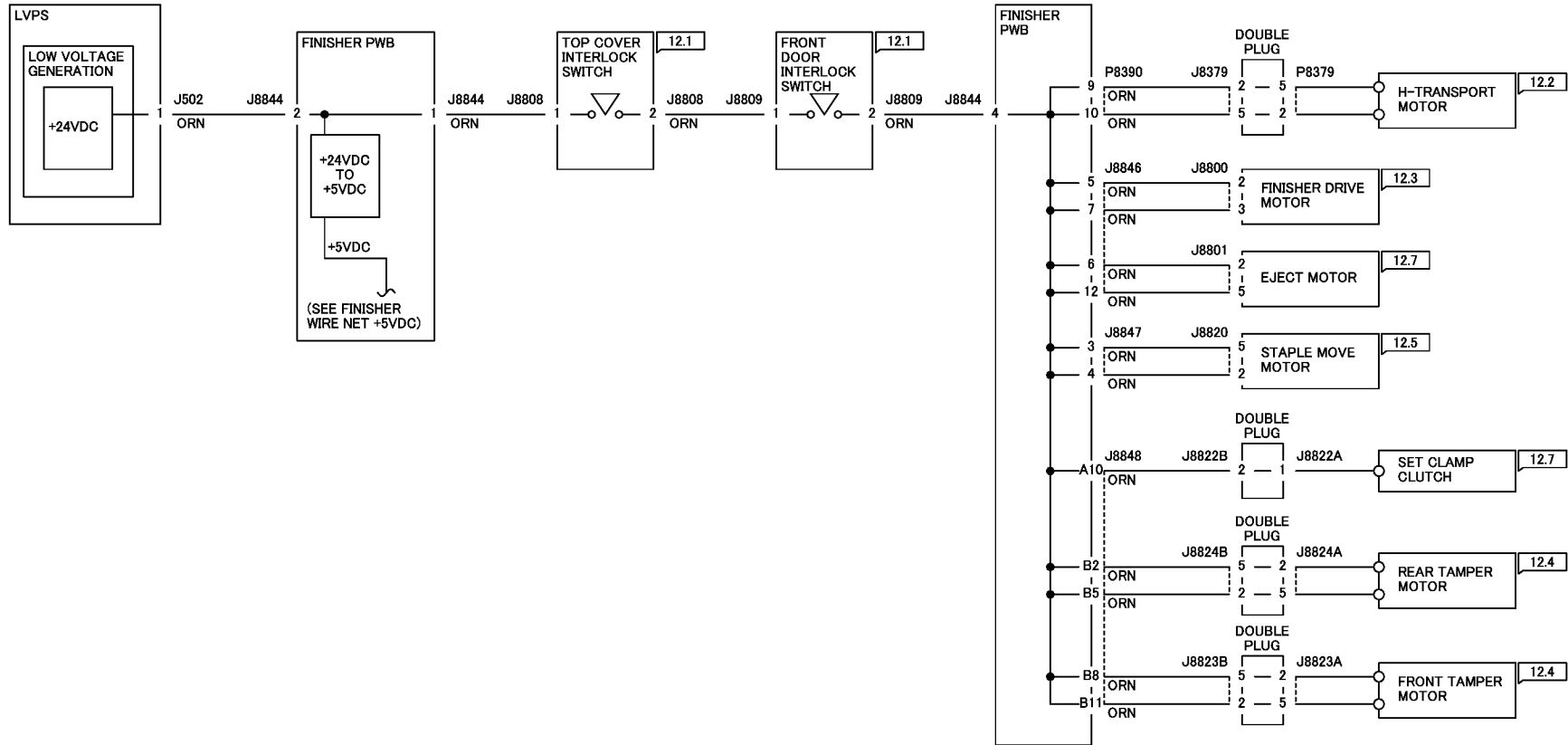


T720033A-ELN

Figure 1 Finisher Wire Net DC COM(+5VRTN)

7.3.34 Finisher Wire Net +24VDC

FINISHER WIRE NET +24VDC

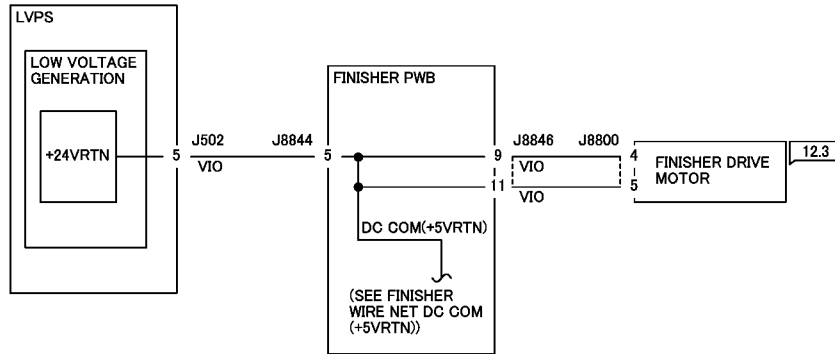


t720034A-ELN

Figure 1 Finisher Wire Net +24VDC

7.3.35 Finisher Wire Net DC COM (+24VRTN)

FINISHER WIRE NET DC COM(+24VRTN)



T720035A-ELN

Figure 1 Finisher Wire Net DC COM(+24VRTN)

7.2.36 A-Finisher Wire Net +5VDC

2.36 A-Finisher Wire Net +5VDC

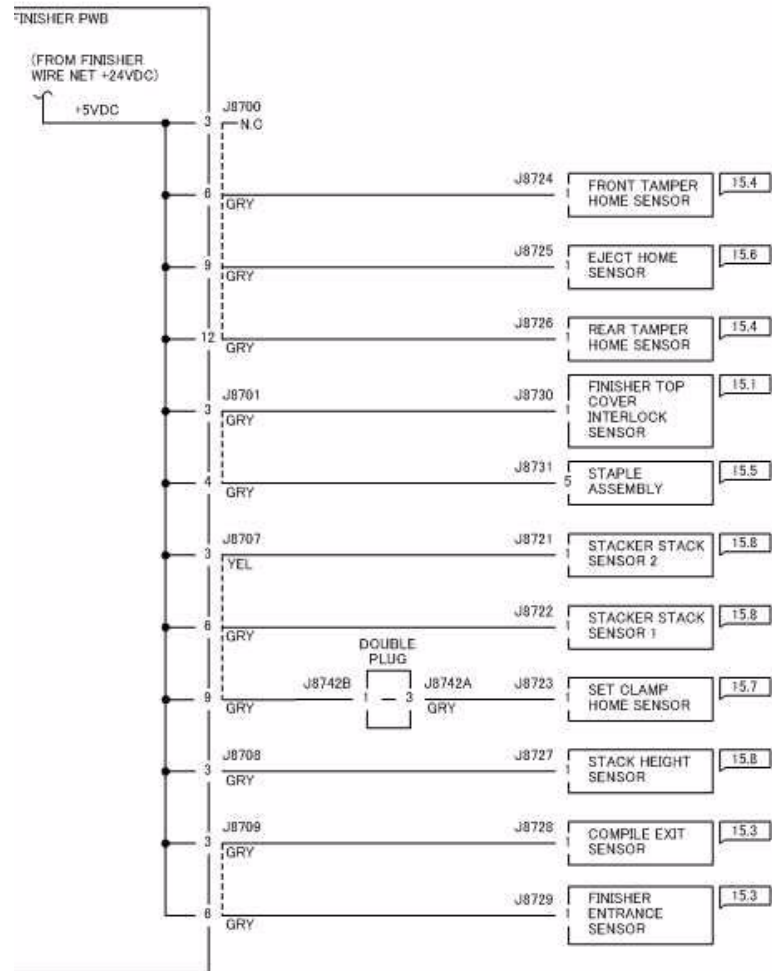
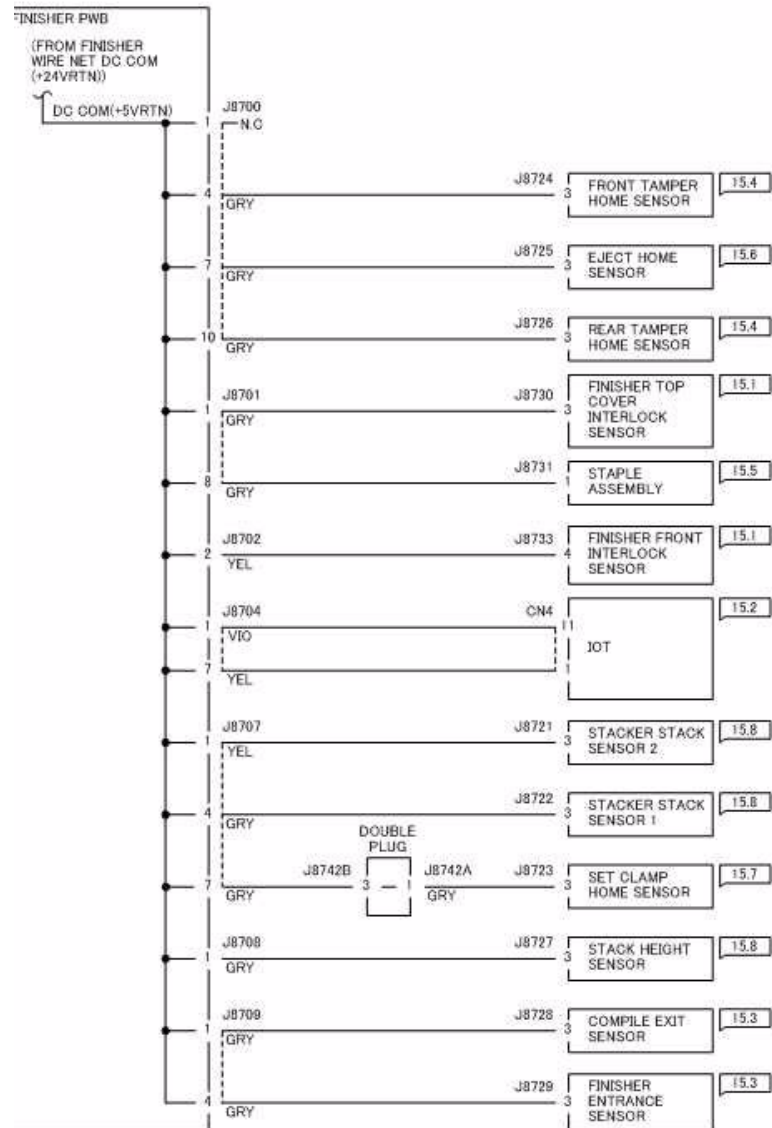


Figure 1 A-Finisher Wire Net +5VDC

7.2.37 A-Finisher Wire Net DC COM(+5VRTN)

2.37 A-Finisher Wire Net DC COM(+5VRTN)

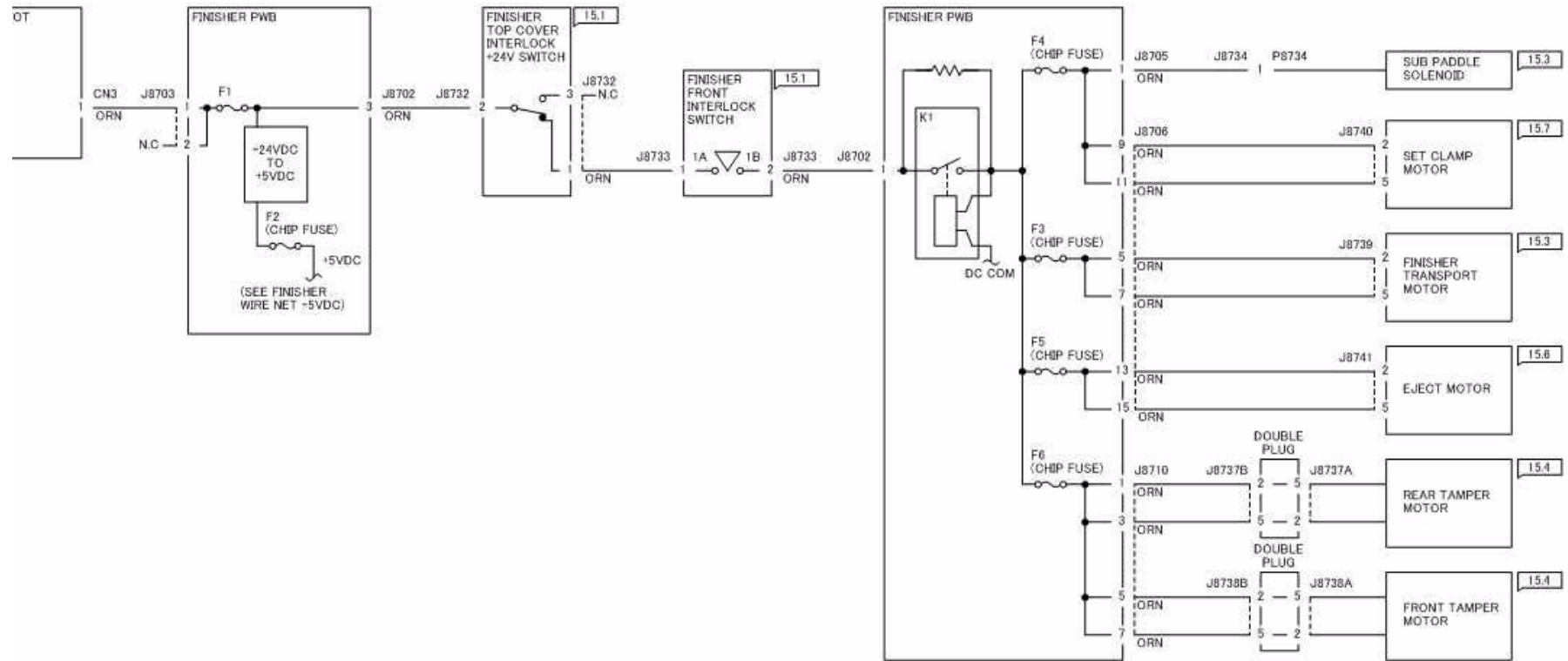


006720

Figure 1 A-Finisher Wire Net DC COM(+5VRTN)

7.2.38 A-Finisher Wire Net +24VDC

2.38 A-Finisher Wire Net +24VDC

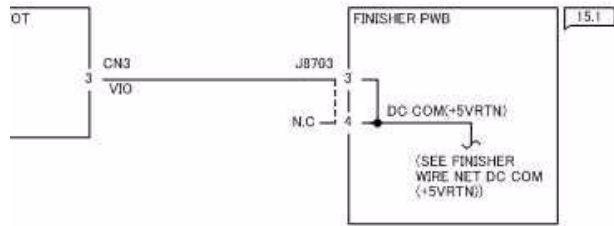


J06a720

Figure 1 A-Finisher Wire Net +24VDC

7.2.39 A-Finisher Wire Net DC COM (+24VRTN)

2.39 A-Finisher Wire Net DC COM(+24VRTN)



04a720

Figure 1 A-Finisher Wire Net DC COM(+24VRTN)

Chain 1 Standby Power

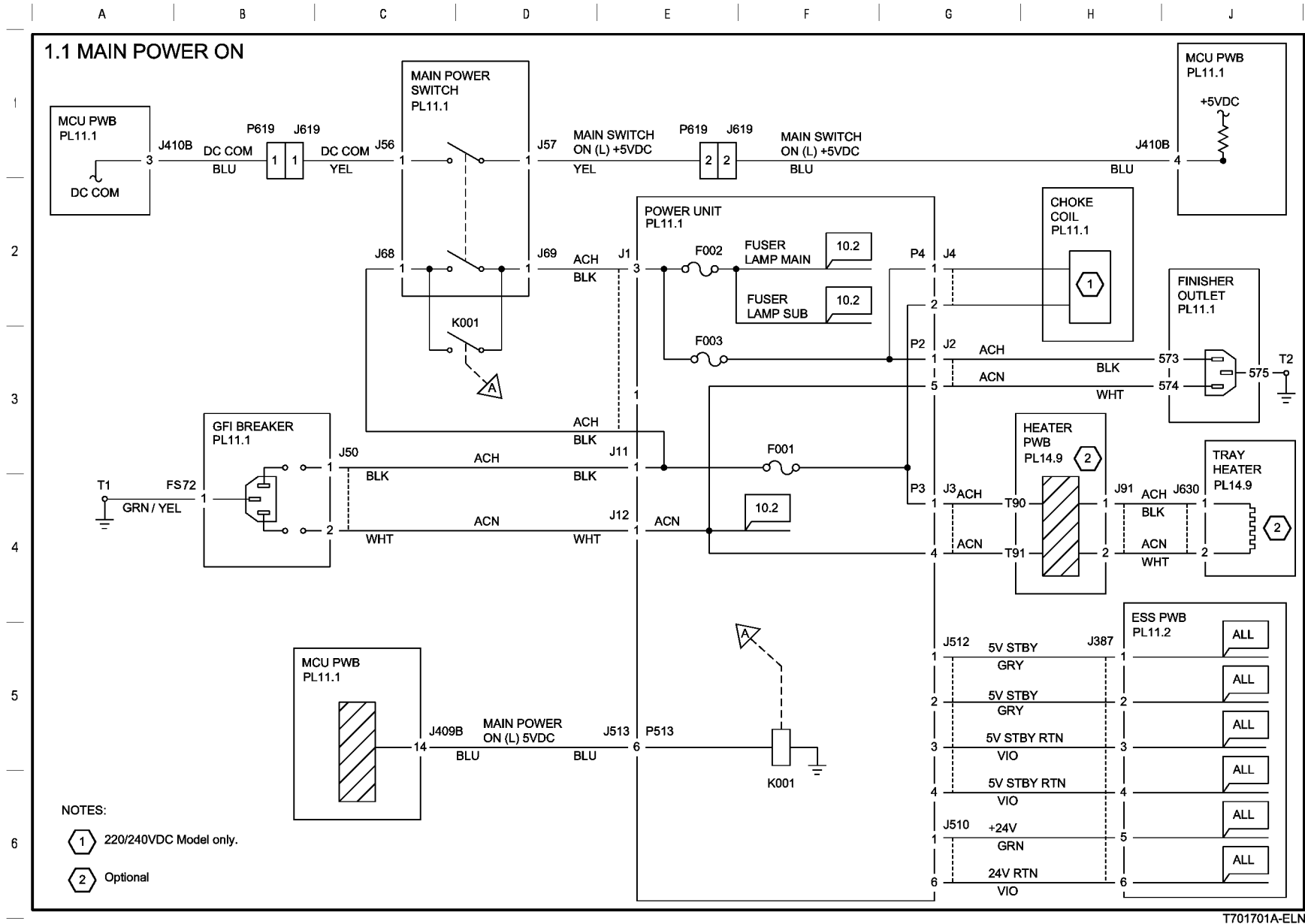
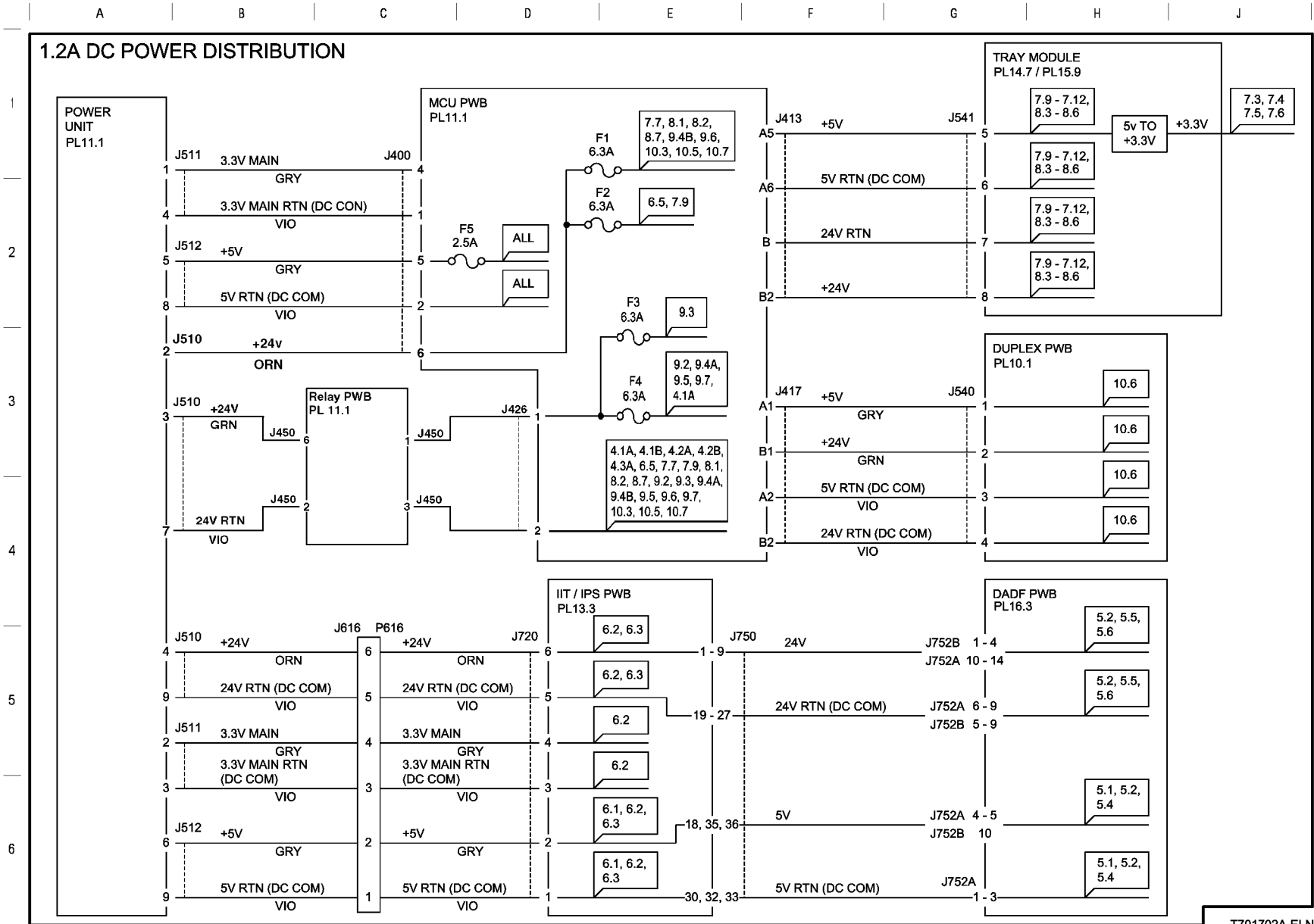
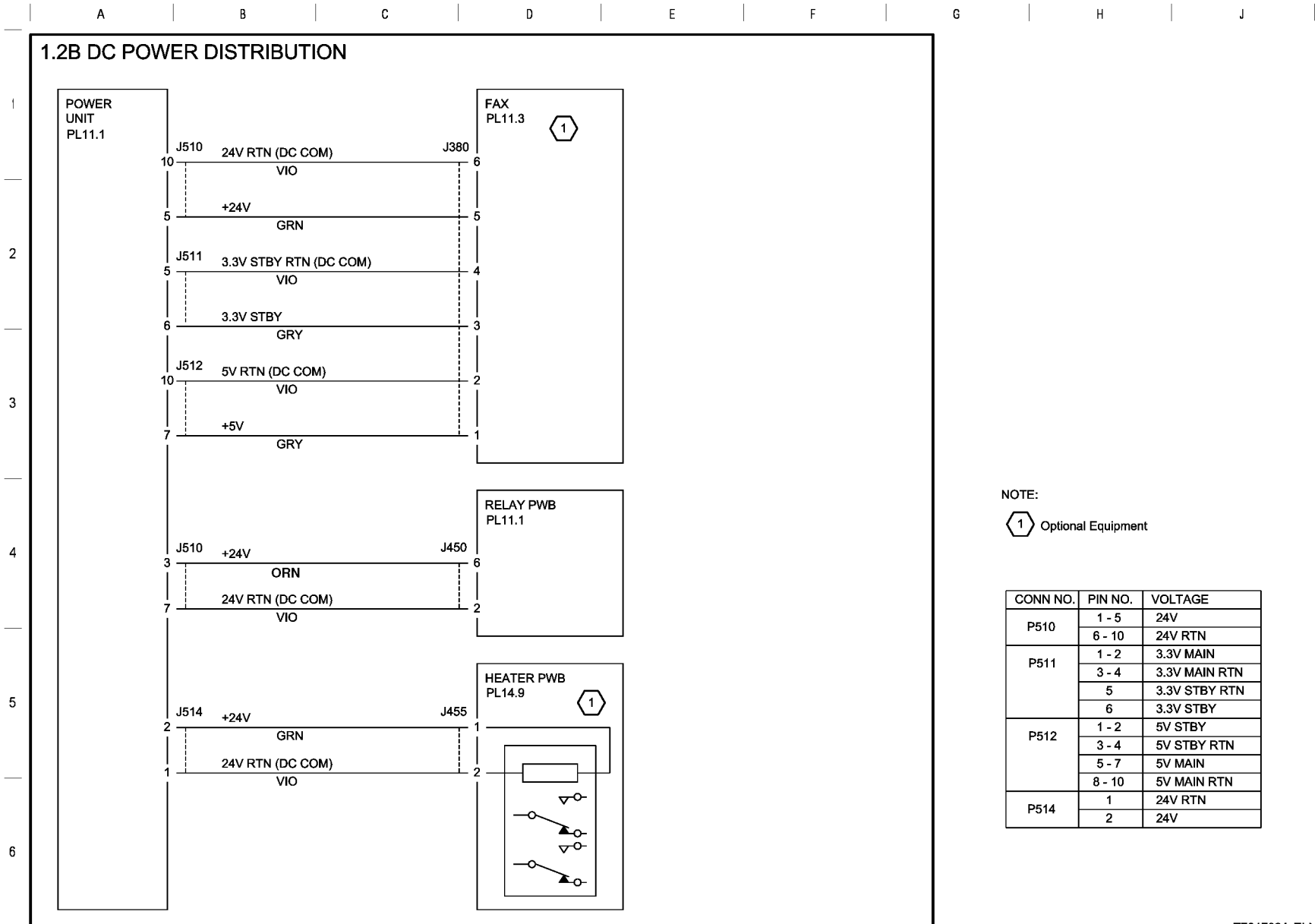


Figure 1 1.1 MAIN POWER ON (t701701a-eln)



T701702A-ELN

Figure 2 1.2ADC POWER DISTRIBUTION (t701702a-eln)



NOTE:
 Optional Equipment

CONN NO.	PIN NO.	VOLTAGE
P510	1 - 5	24V
	6 - 10	24V RTN
P511	1 - 2	3.3V MAIN
	3 - 4	3.3V MAIN RTN
	5	3.3V STBY RTN
	6	3.3V STBY
P512	1 - 2	5V STBY
	3 - 4	5V STBY RTN
	5 - 7	5V MAIN
	8 - 10	5V MAIN RTN
P514	1	24V RTN
	2	24V

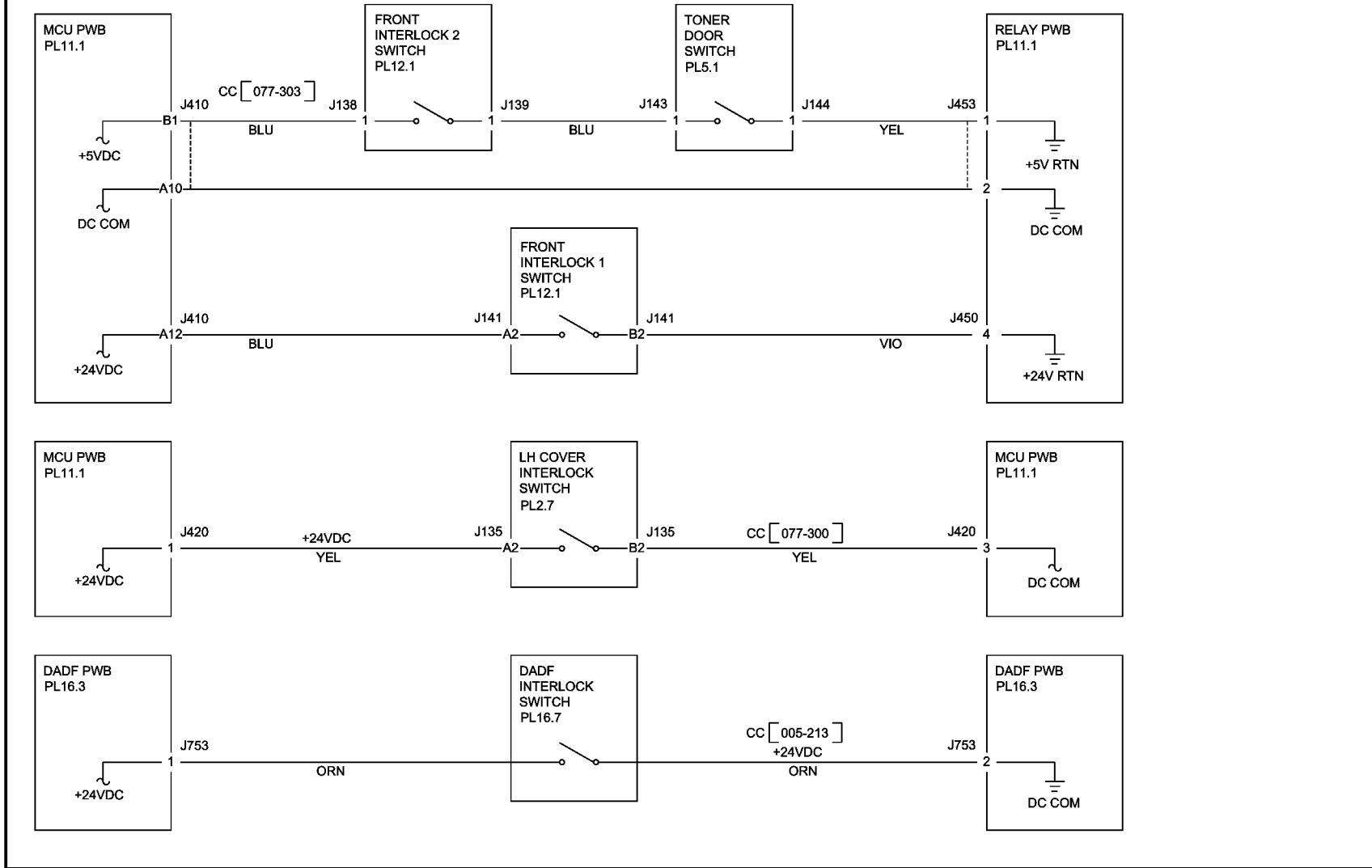
T701703A-ELN

Figure 3 1.2B DC POWER DISTRIBUTION (t701703a-eln)

A | B | C | D | E | F | G | H | J

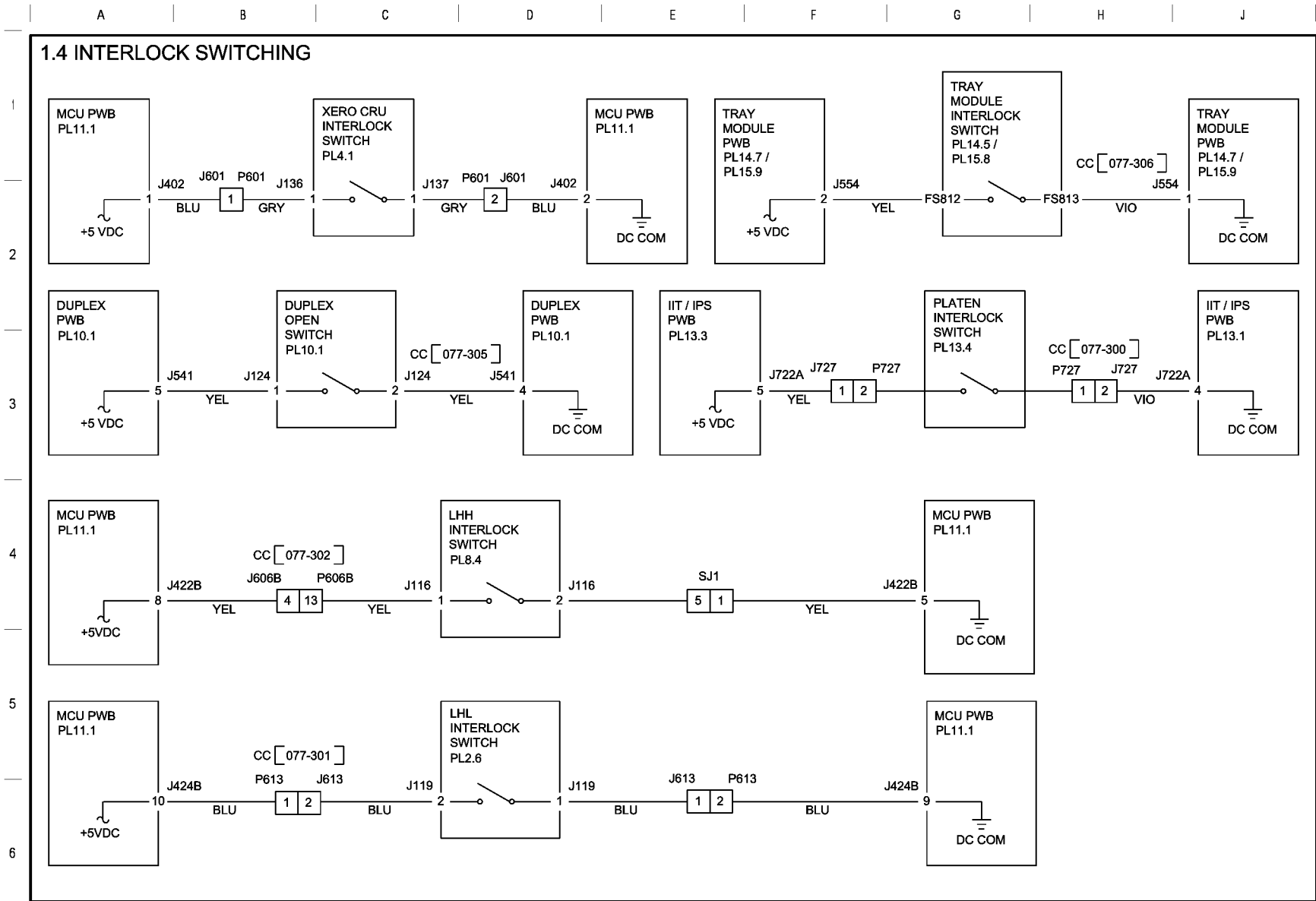
1.3 POWER INTERLOCK SWITCHING

1
2
3
4
5
6



T701704A-ELN

Figure 4 1.3 POWER INTERLOCK SWITCHING (t701704a-eln)



T701705A-ELN

Figure 5 1.4 INTERLOCK SWITCHING (t701705a-eln)

Chain 2 User Interface

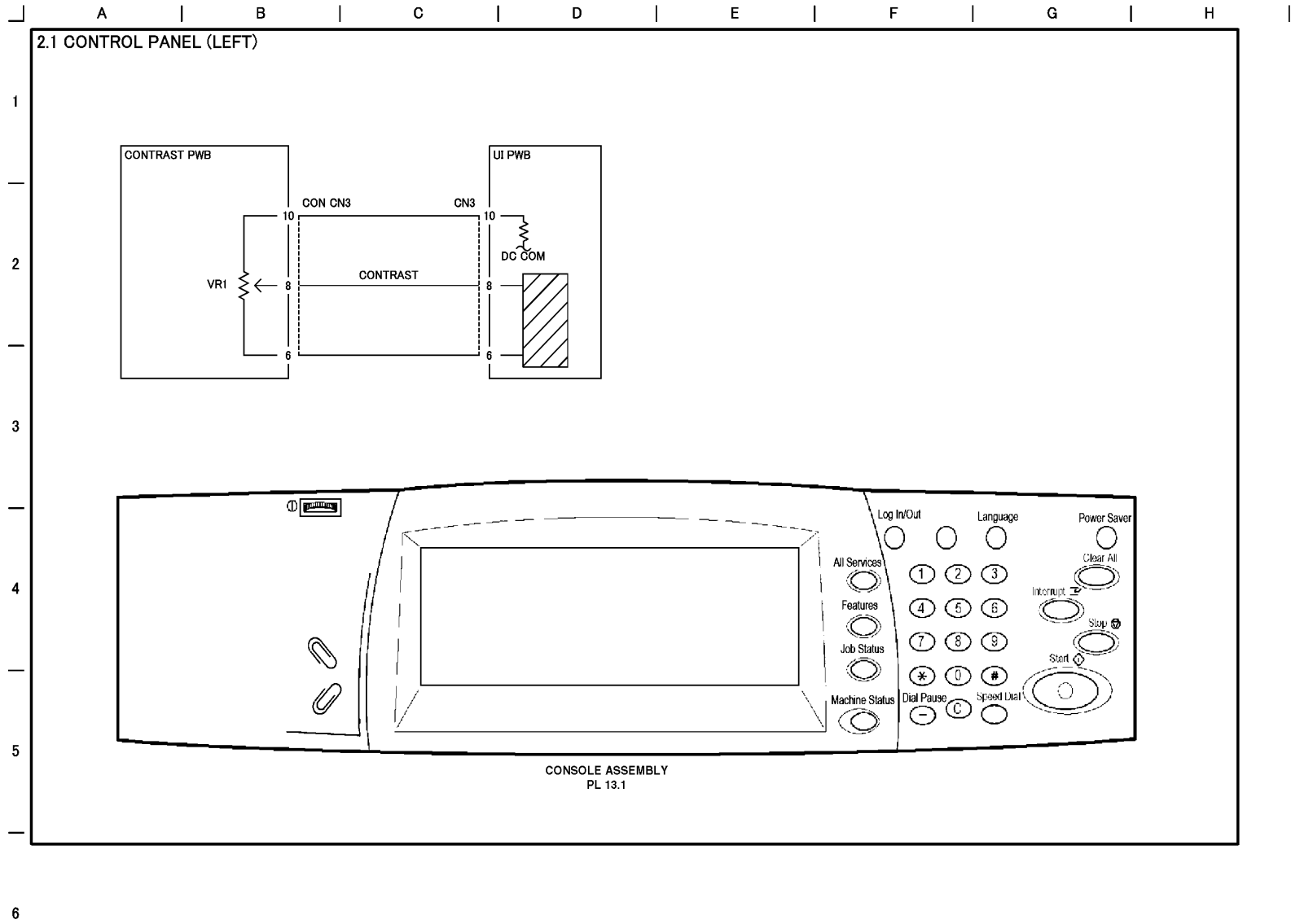
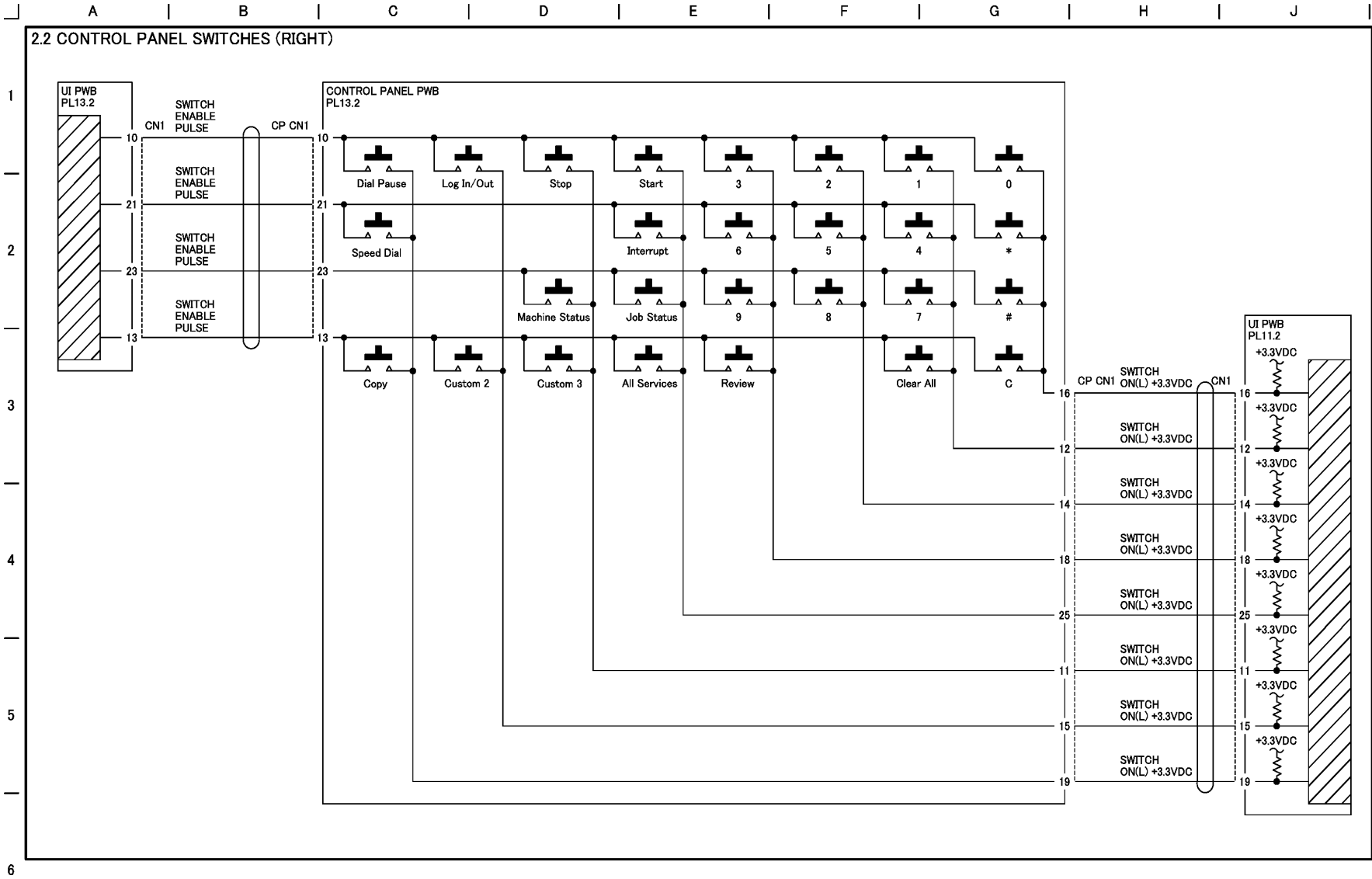
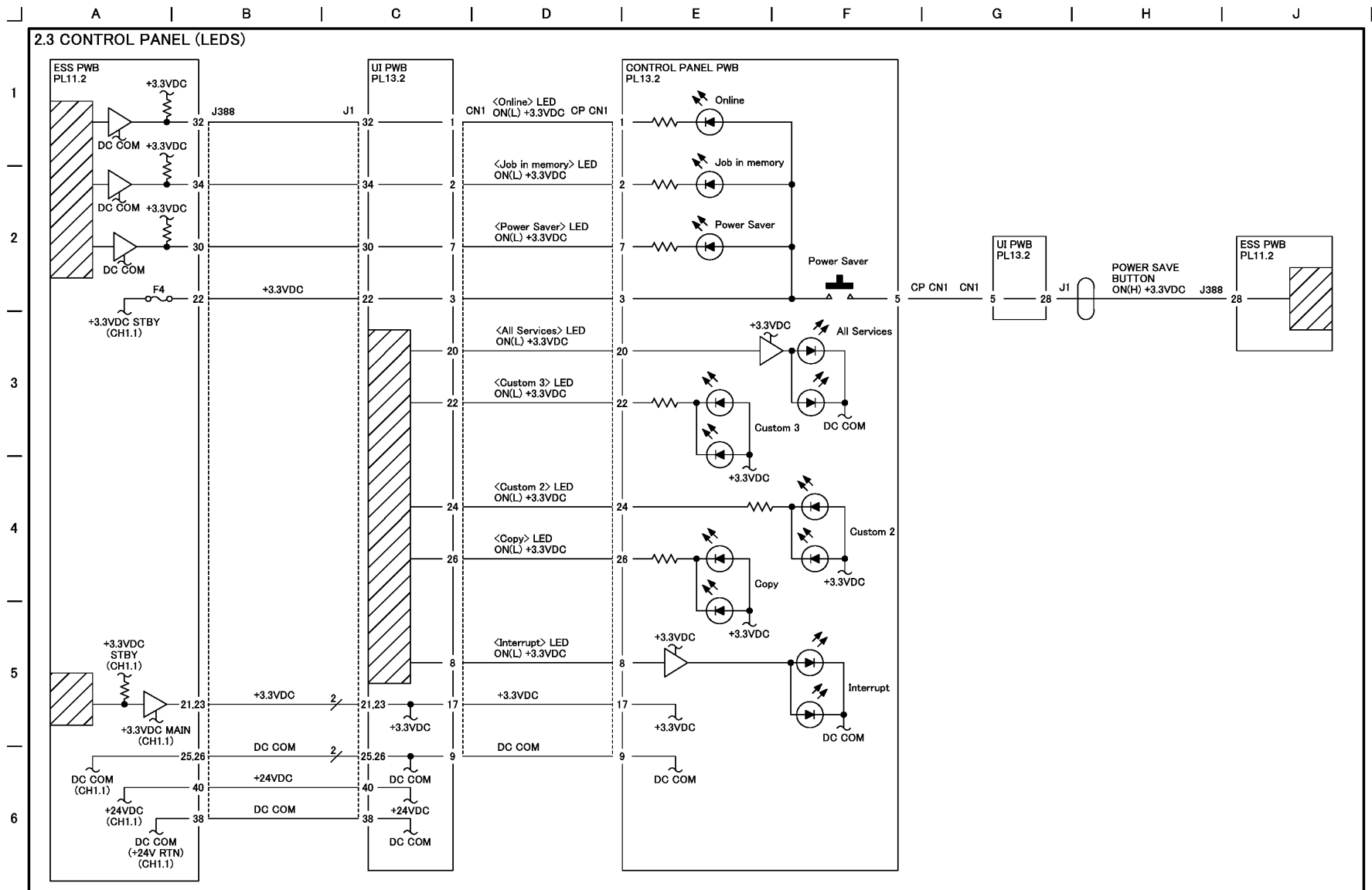


Figure 1 2.1 CONTROL PANEL (LEFT) (t702711a-eln)



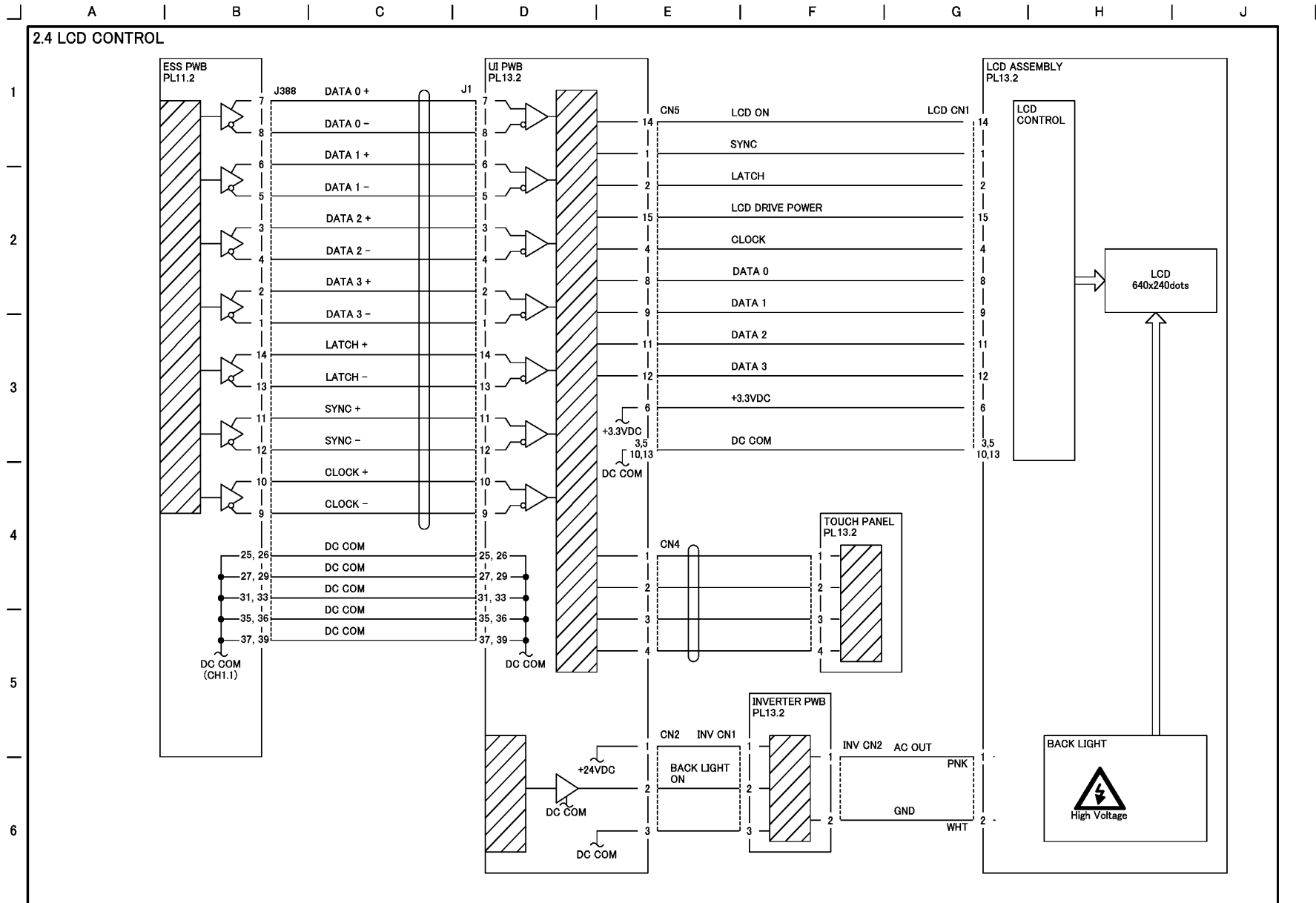
t702712a-eln

Figure 2 2.2 CONTROL PANEL SWITCHES(RIGHT) (t702712a-eln)



t702713a-eln

Figure 3 2.3 CONTROL PANEL(LENS) (t702713a-eln)



1702714a-eln

Figure 4 2.4 LCD CONTROL (t702714a-eln)

Chain 3 Machine Run Control

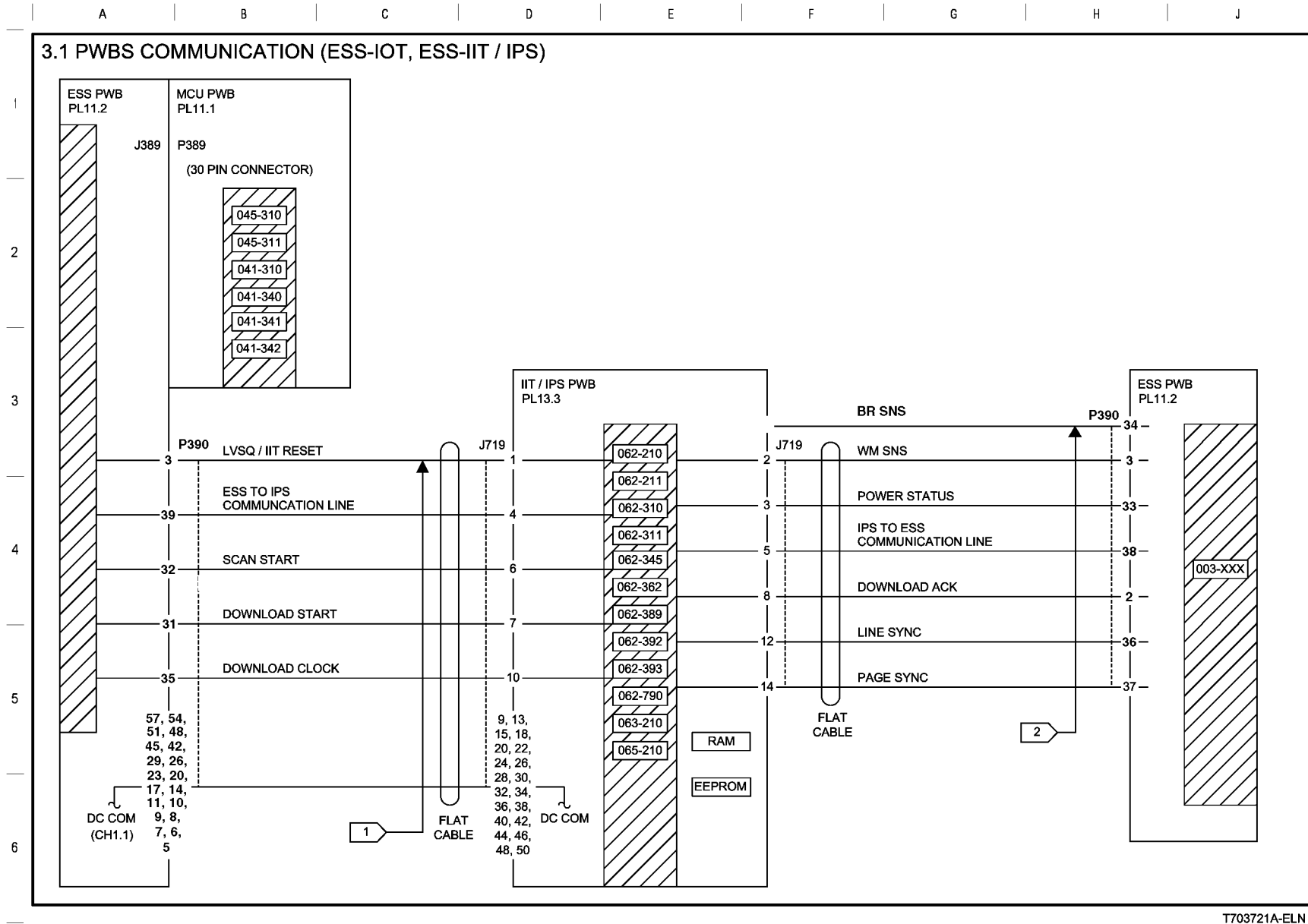
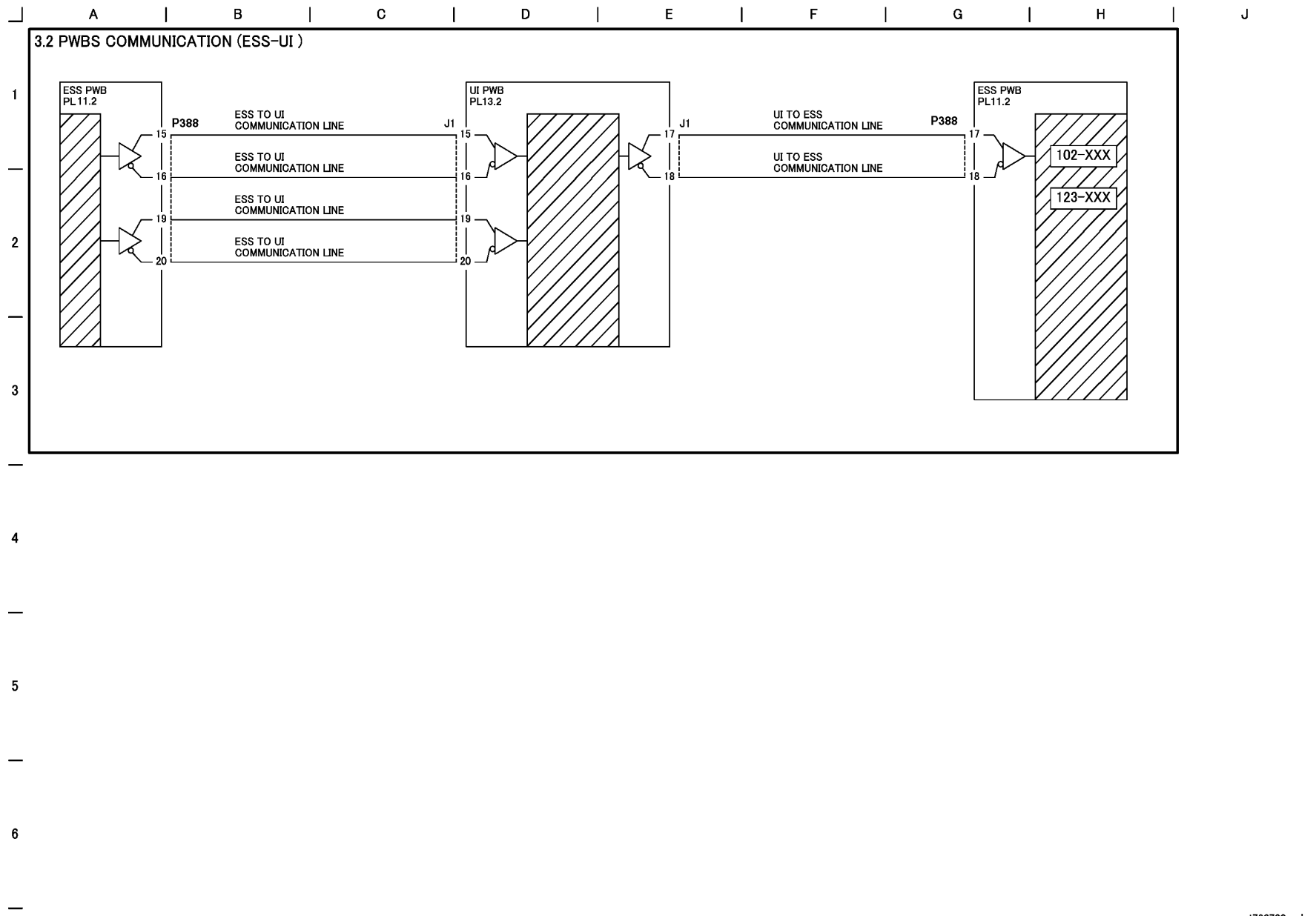
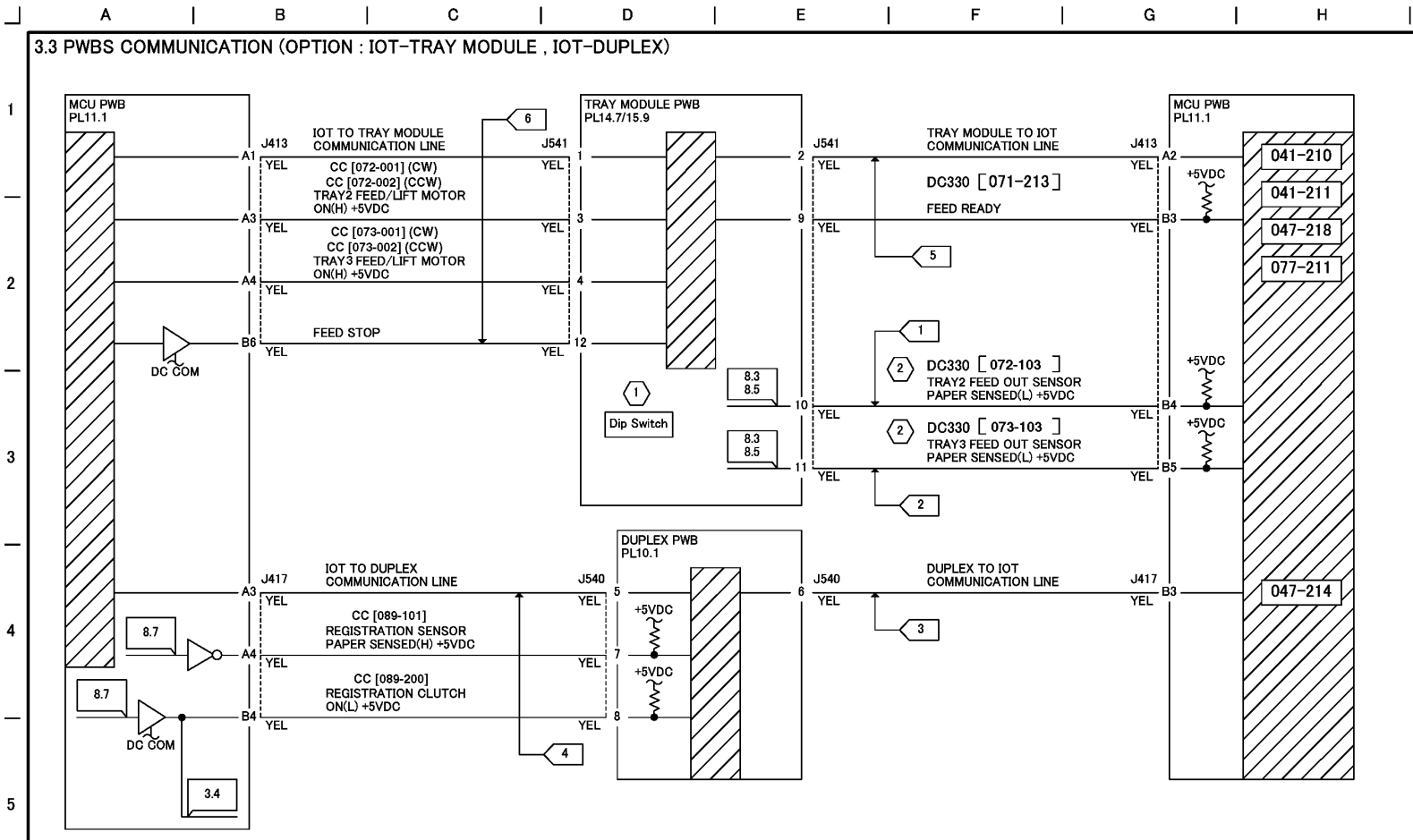


Figure 1 3.1 PWBS COMMUNICATION (ESS-IOT, ESS-IIT/IPS) (t703721a-eln)



t703722a-eln

Figure 2 3.2 PWBS COMMUNICATION(ESS-UI) (t703722a-eln)

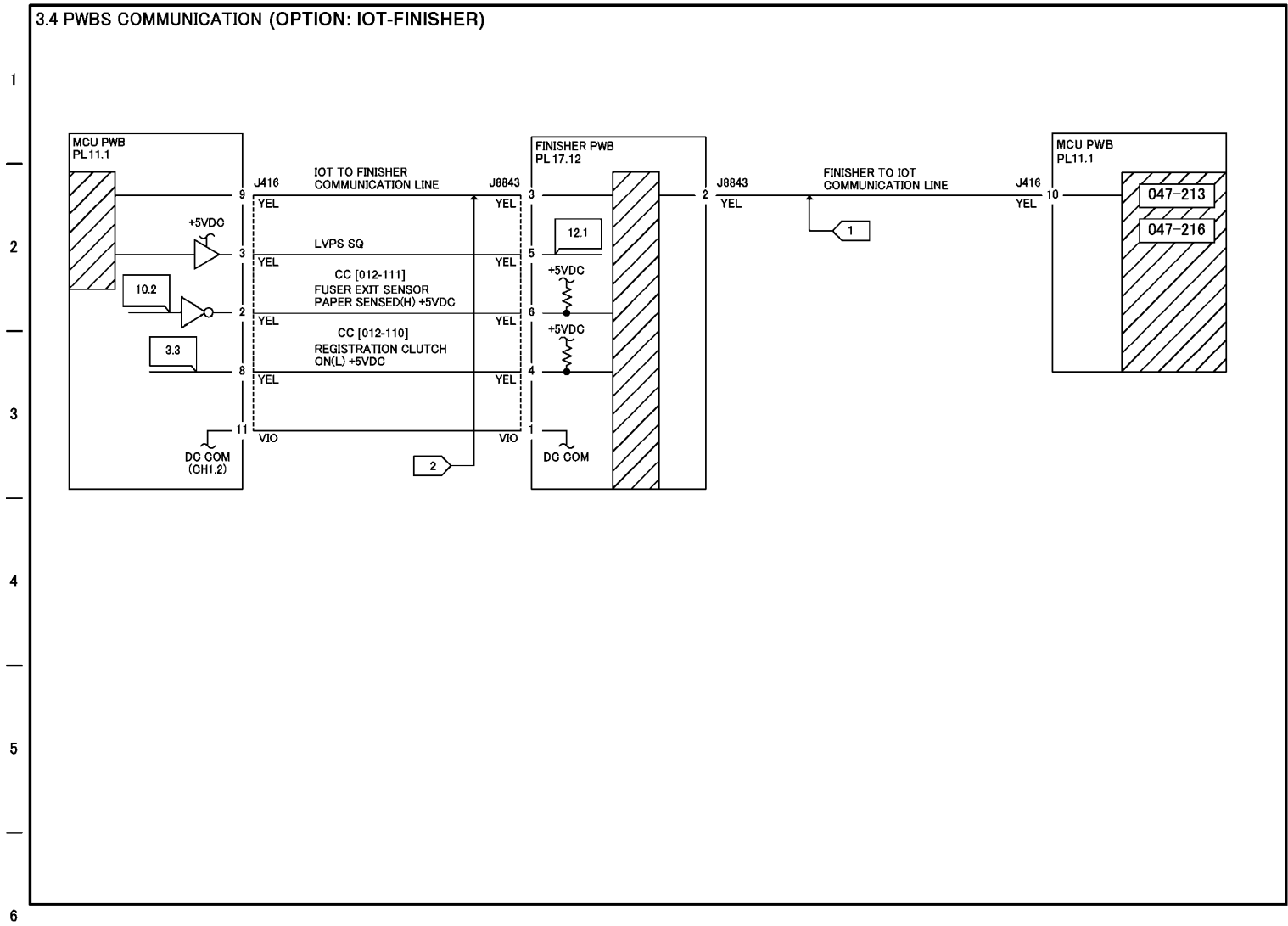


① Dip Switch is used to distinguish between 2-Tray Module and Tandem Tray Module. ② Diag display (High/Low) is the opposite of voltage level.

2-Tray Module		Tandem Tray Module	
ON		ON	
OFF		OFF	
ON		ON	
OFF		OFF	

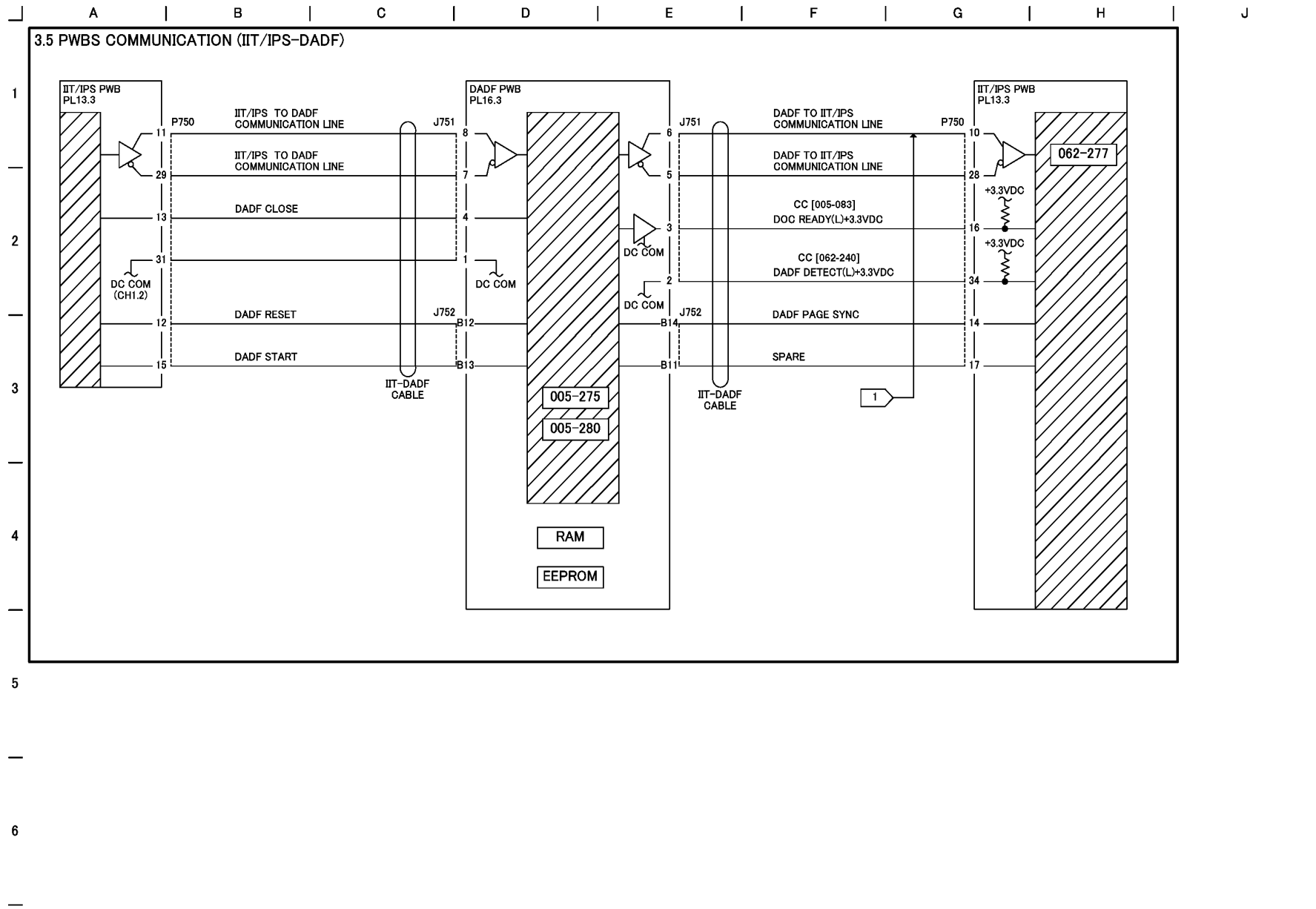
t703723a-eln

Figure 3 3.3 PWBS COMMUNICATION (OPTION:IOT-TRAY MODULE, IOT-DUPLEX) (t703723a-eln)



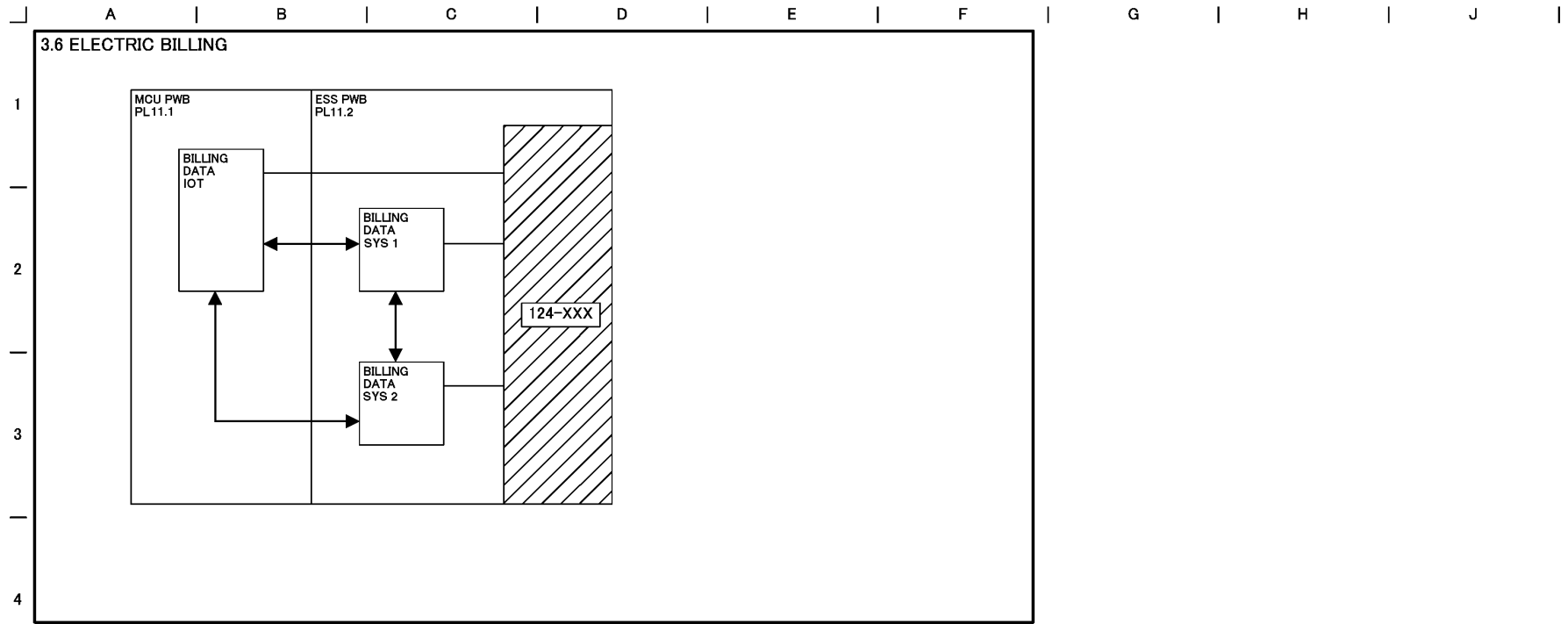
t703724a-eln

Figure 4 3.4 PWBS COMMUNICATION (OPTION:IOT-FINISHER) (t703724a-eln)



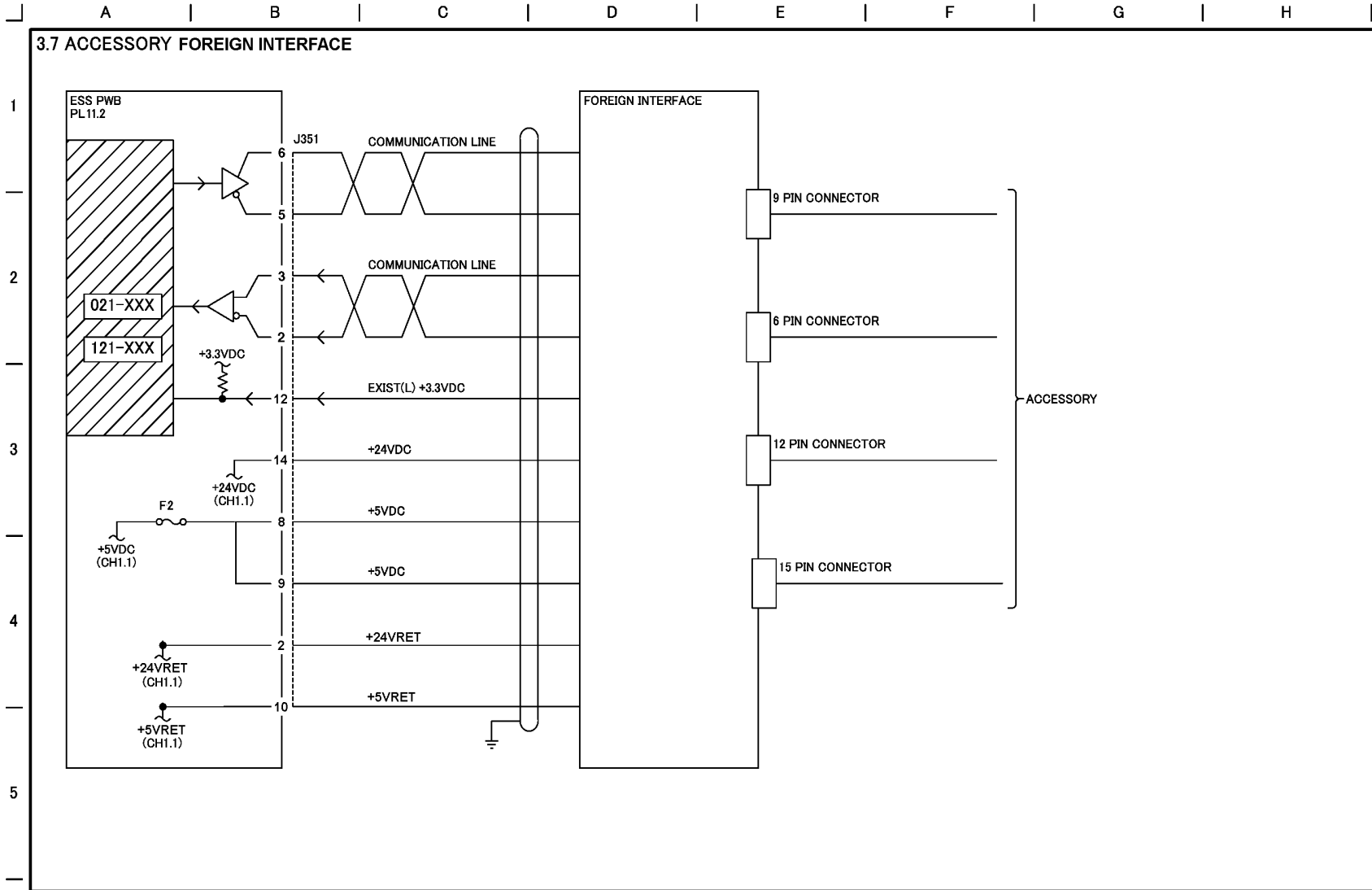
1703725a-eln

Figure 5 3.5 PWBS COMMUNICATION (IIT/IPS-DADF) (t703725a-eln)



t703726a-eln

Figure 6 3.6 ELECTRIC BILLING (t703726a-eln)

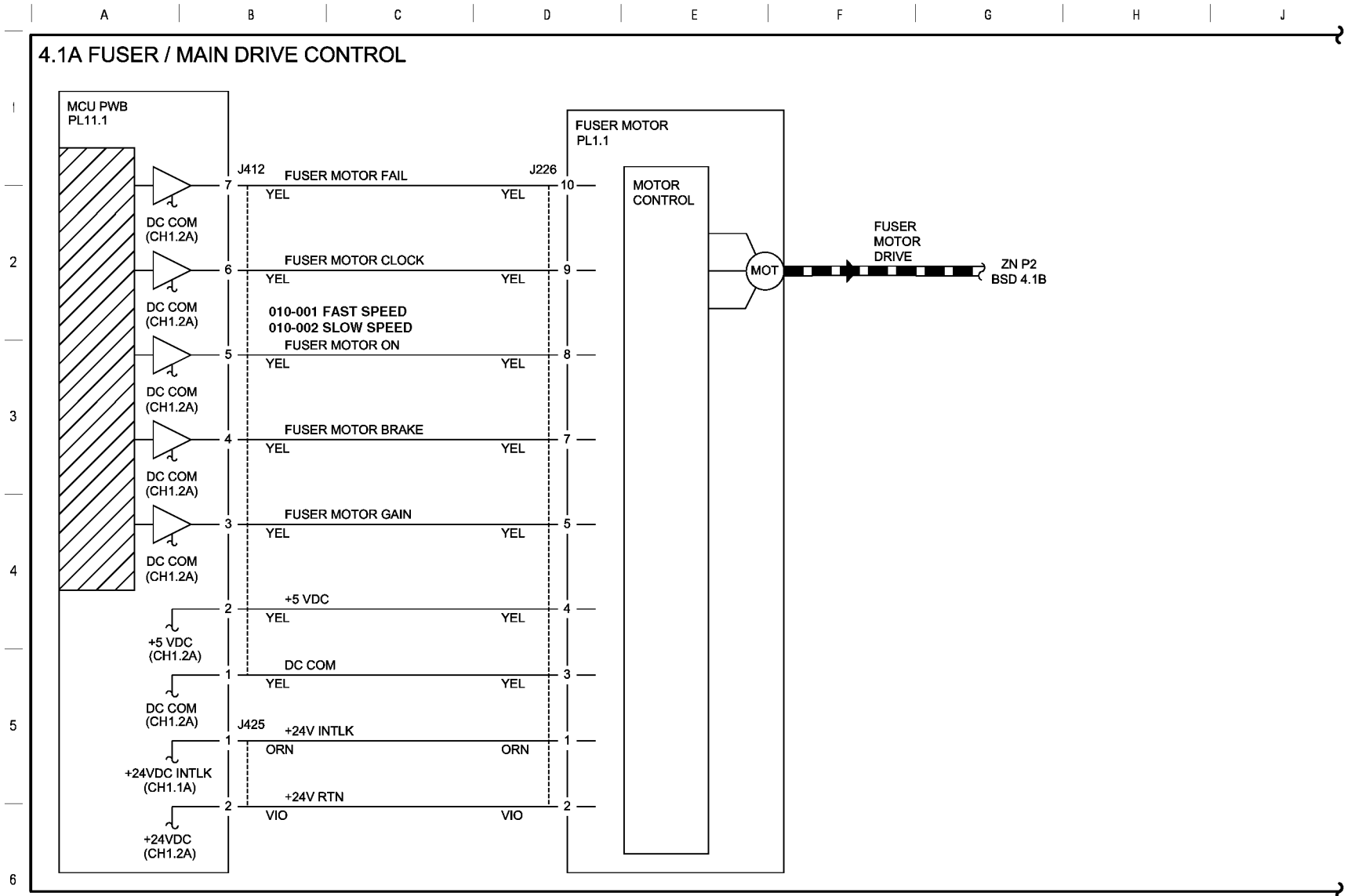


6

T703727A-ELN

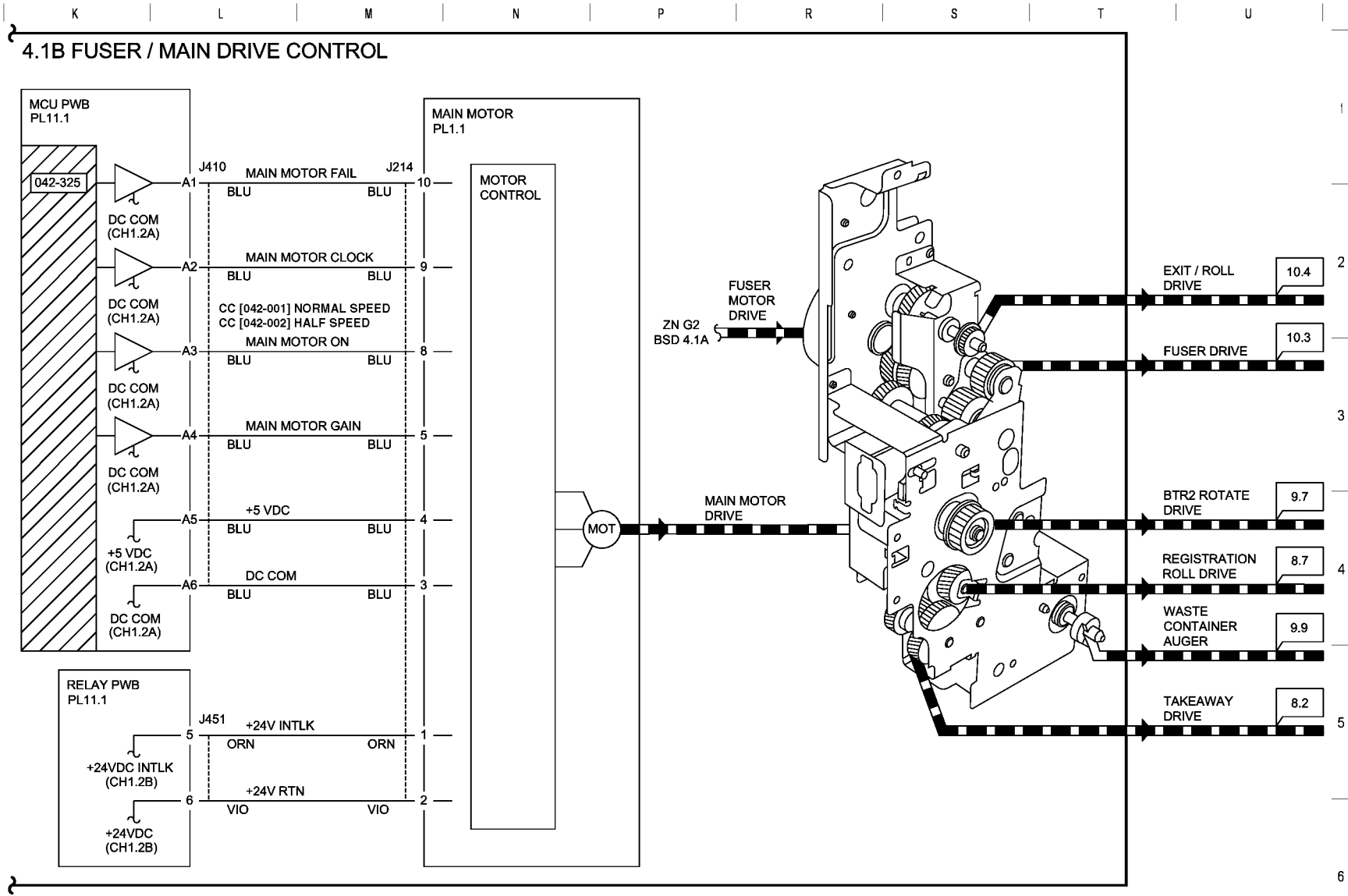
Figure 7 3.7 Accessory Foreign Interface

Chain 4 Start Print Power



T704731A-ELN

Figure 1 4.1A FUSER DRIVE / MAIN DRIVE CONTROL (t704731a-eln)



T704732A-ELN

Figure 2 4.1B FUSER DRIVE / MAIN DRIVE (t704732a-eln)

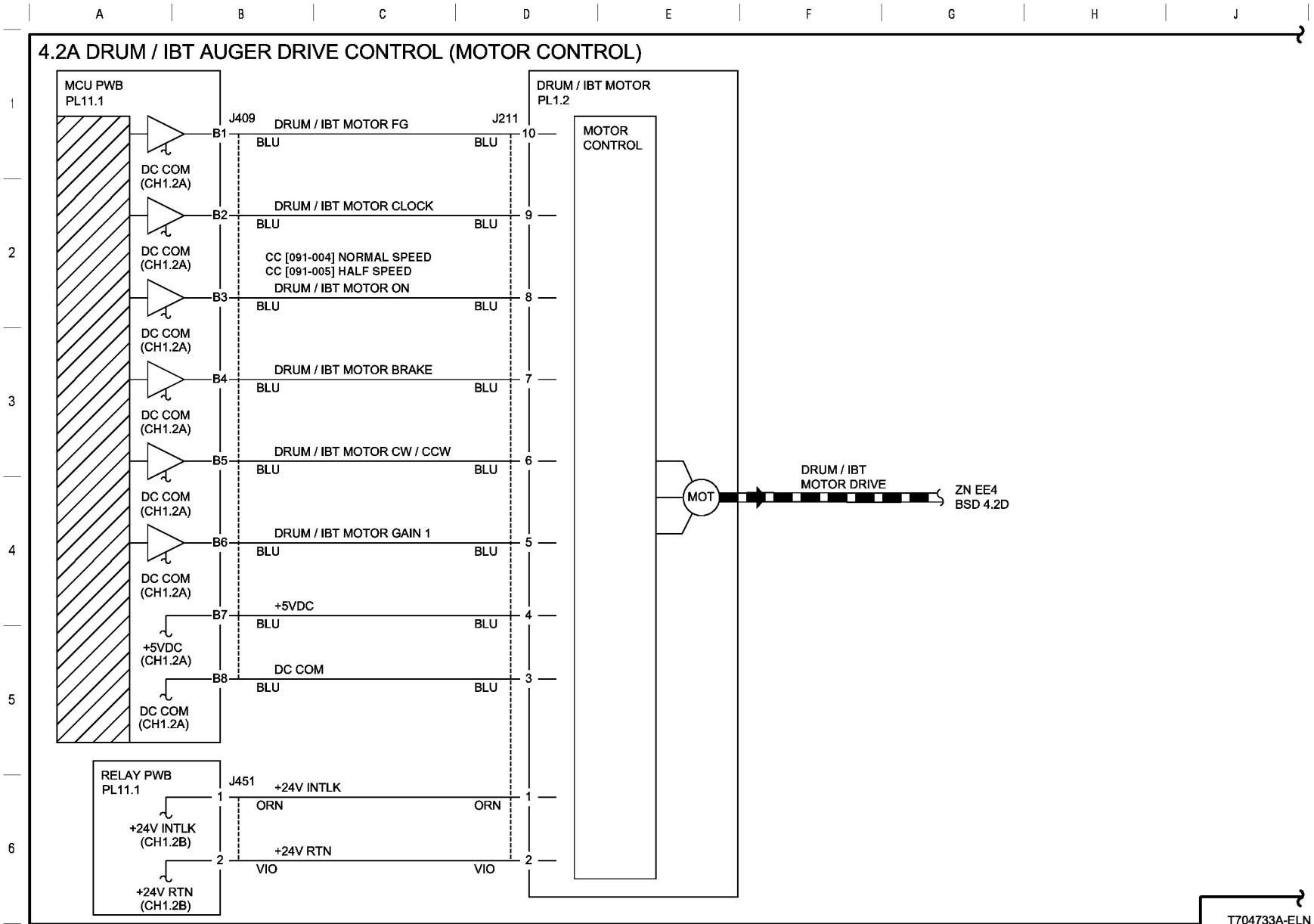
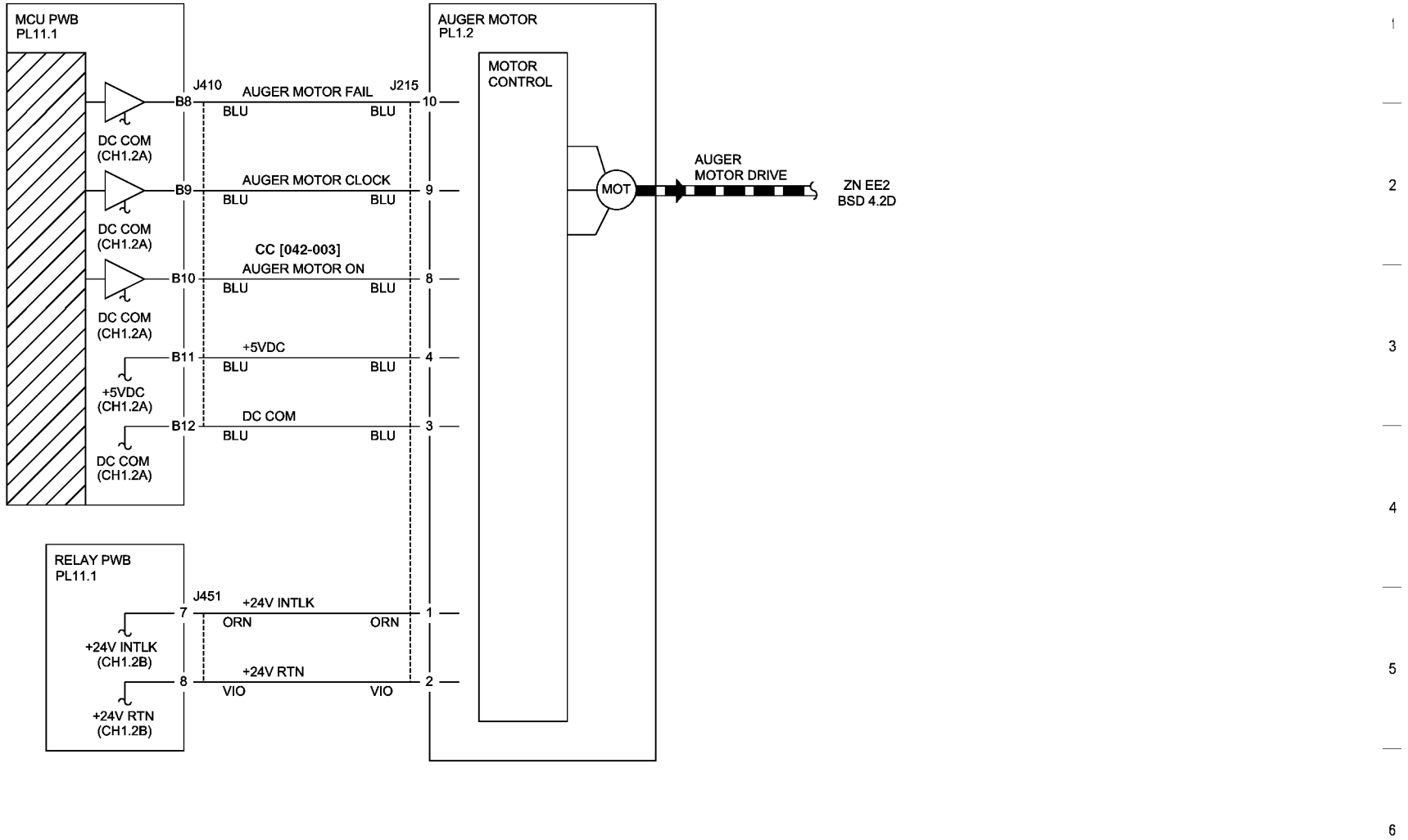


Figure 3 4.2A DRUM / IBT AUGER DRIVE CONTROL (Motor Control) (t704733a-eln)

4.2B DRUM / IBT AUGER DRIVE CONTROL (MOTOR CONTROL)



T704734A-ELN

Figure 4 4.2B DRUM / IBT AUGER DRIVE CONTROL (Motor Control) (t704734a-eln)

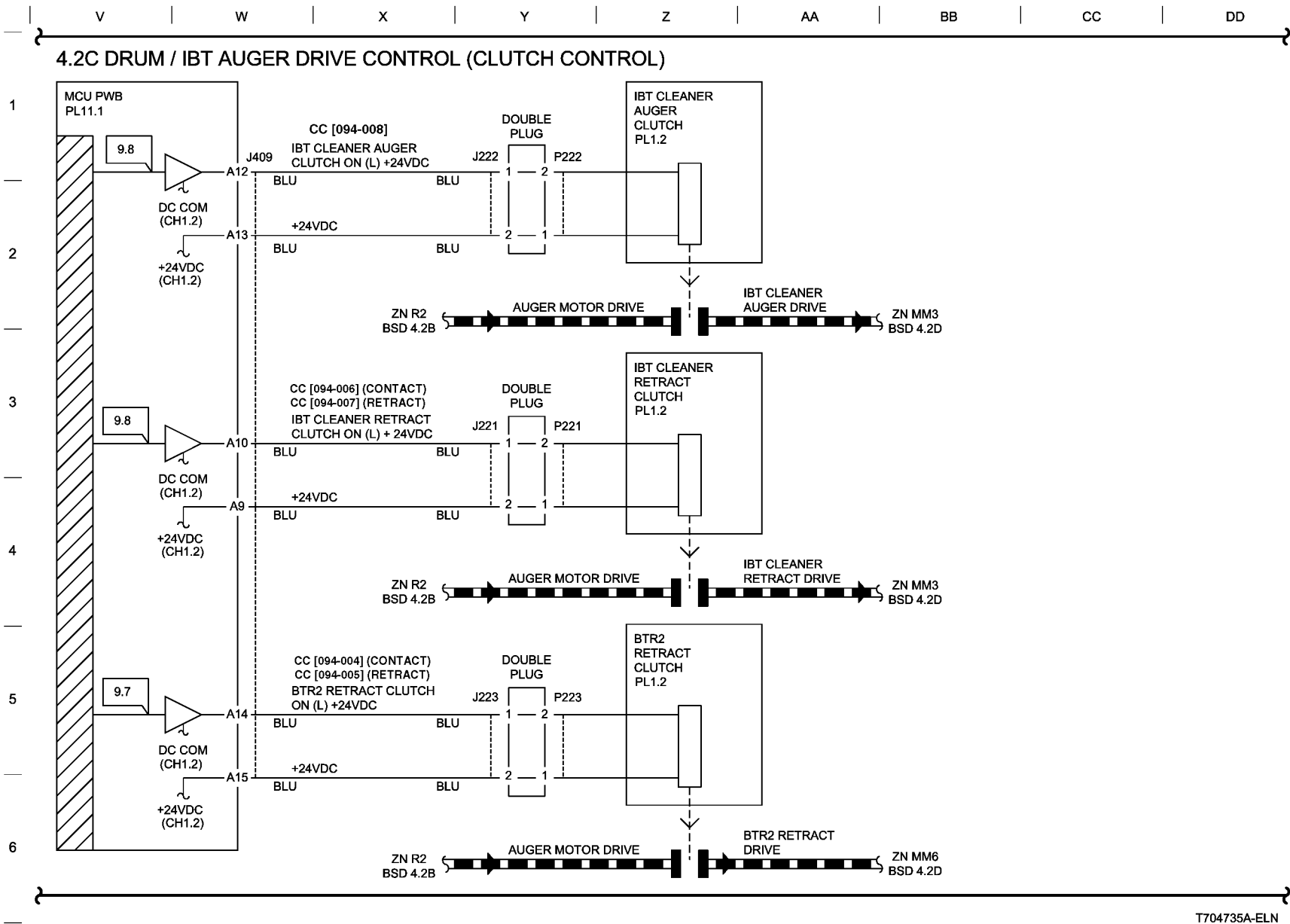


Figure 5 4.2C DRUM / IBT AUGER DRIVE CONTROL (Clutch Control) (t704735a-eln)

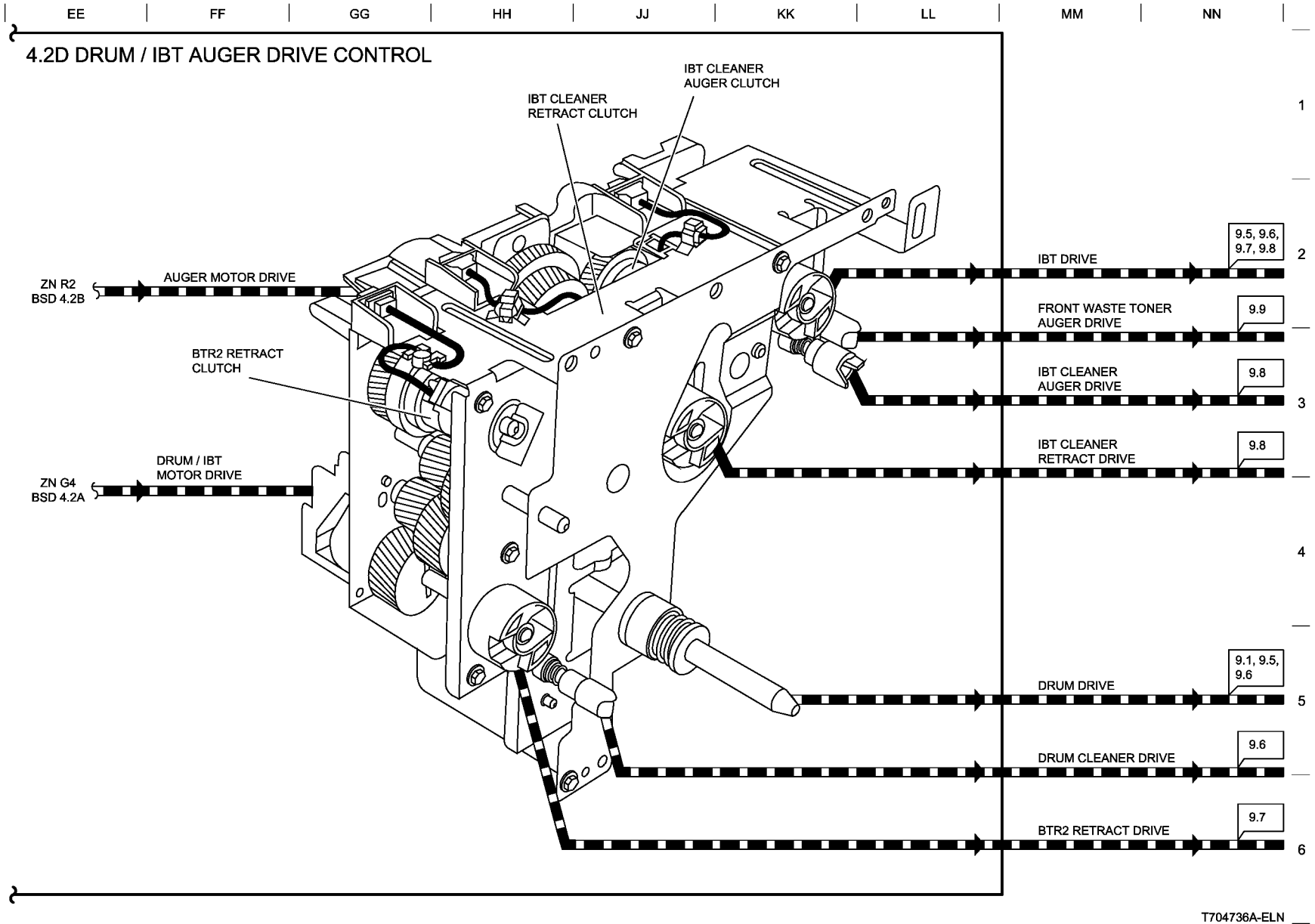
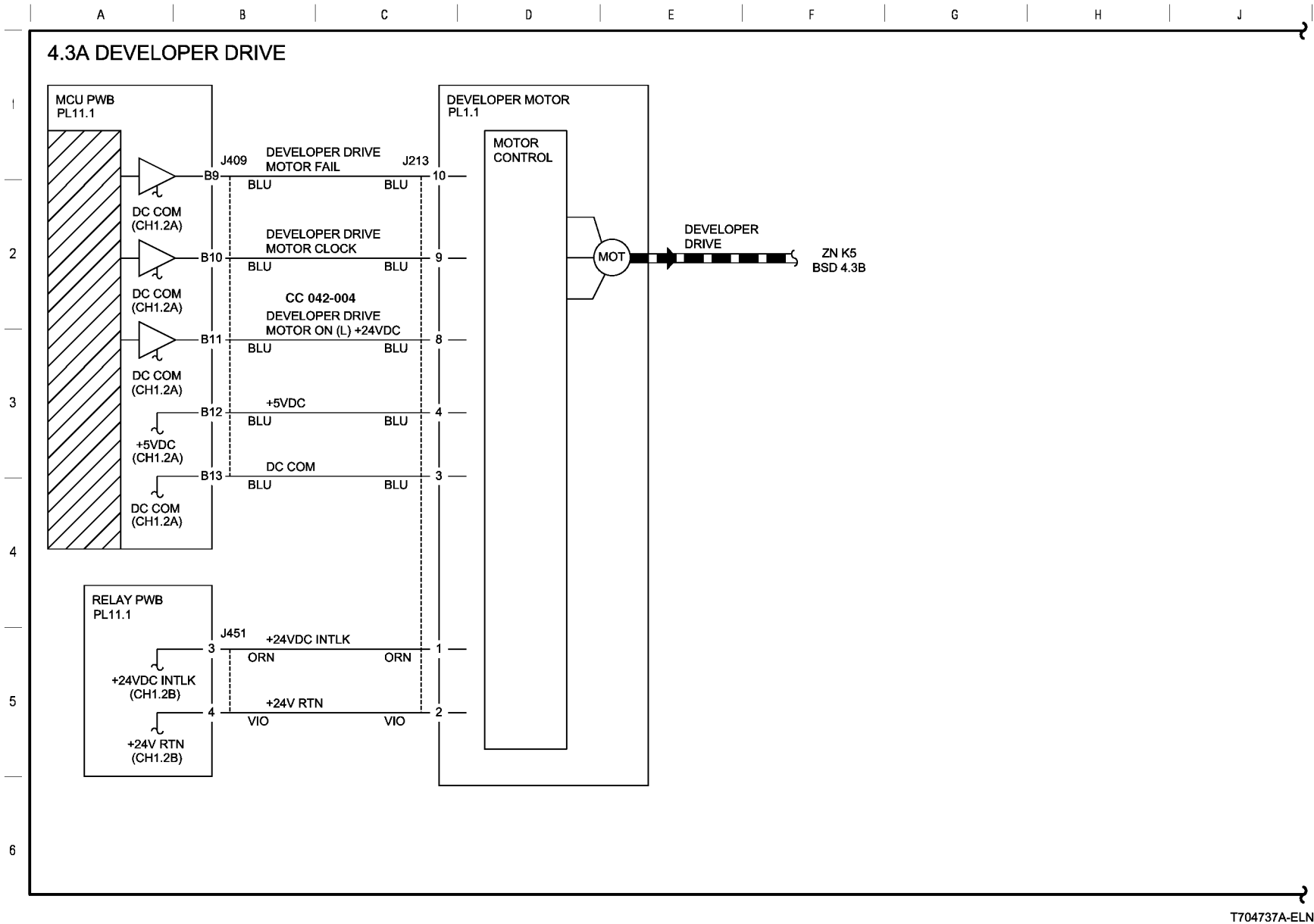


Figure 6 4.2D DRUM / IBT AUGER DRIVE CONTROL (t704736a-eln)



T704737A-ELN

Figure 7 4.3A DEVELOPER DRIVE CONTROL (t704737a-eln)

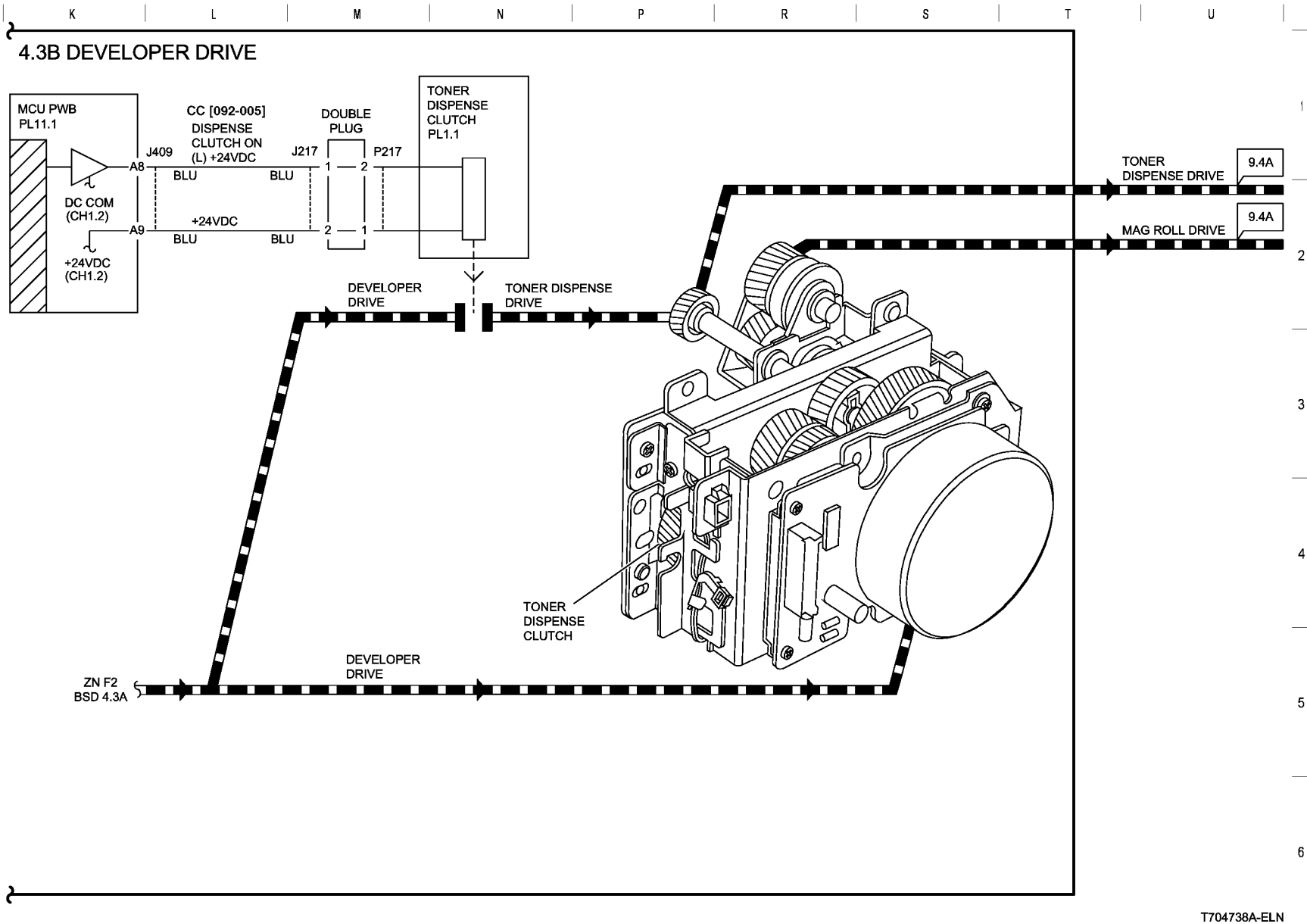


Figure 8 4.3B DEVELOPER DRIVE CONTROL (t704738a-eln)

T704738A-ELN

Chain 5 Document Transportation

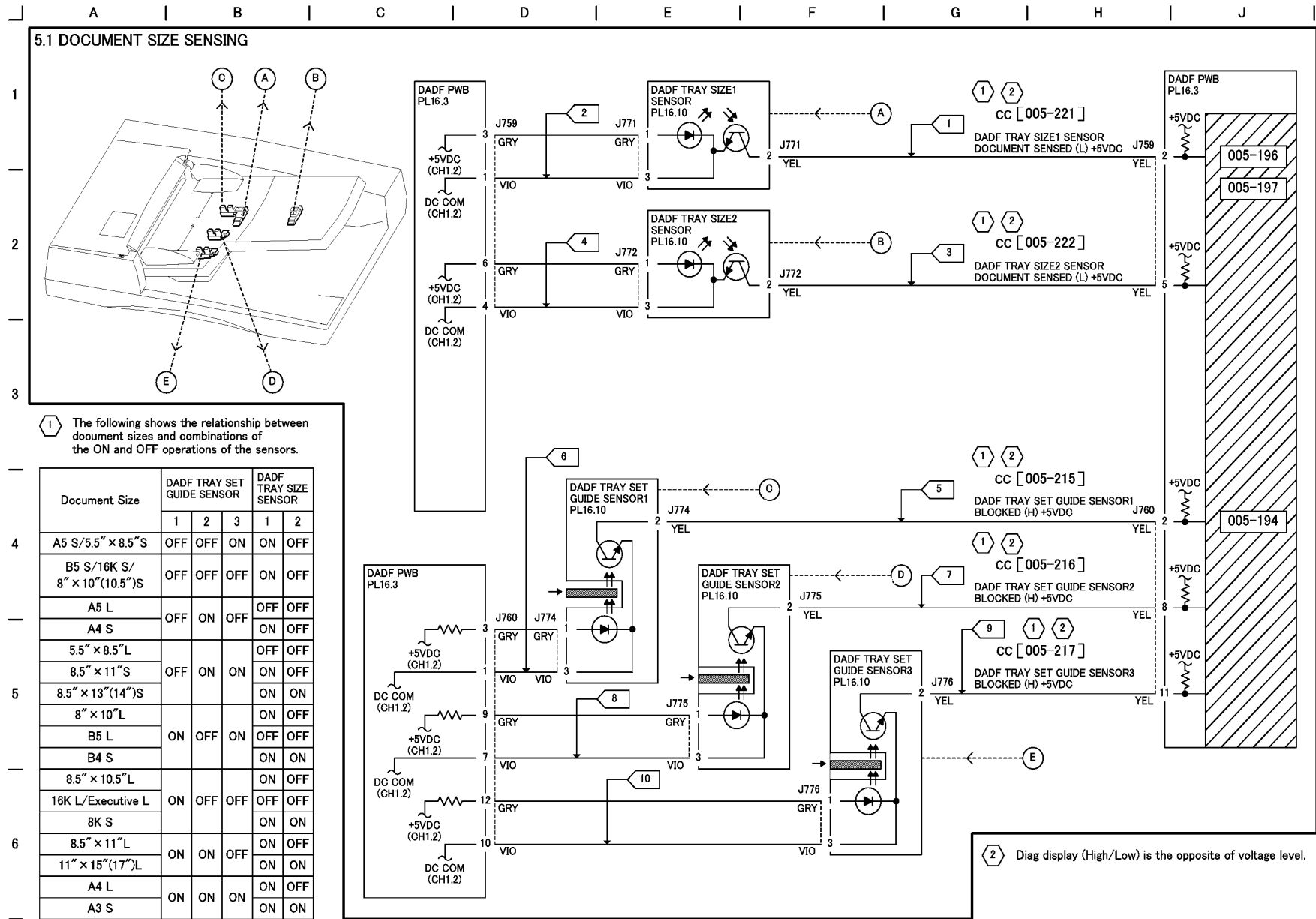
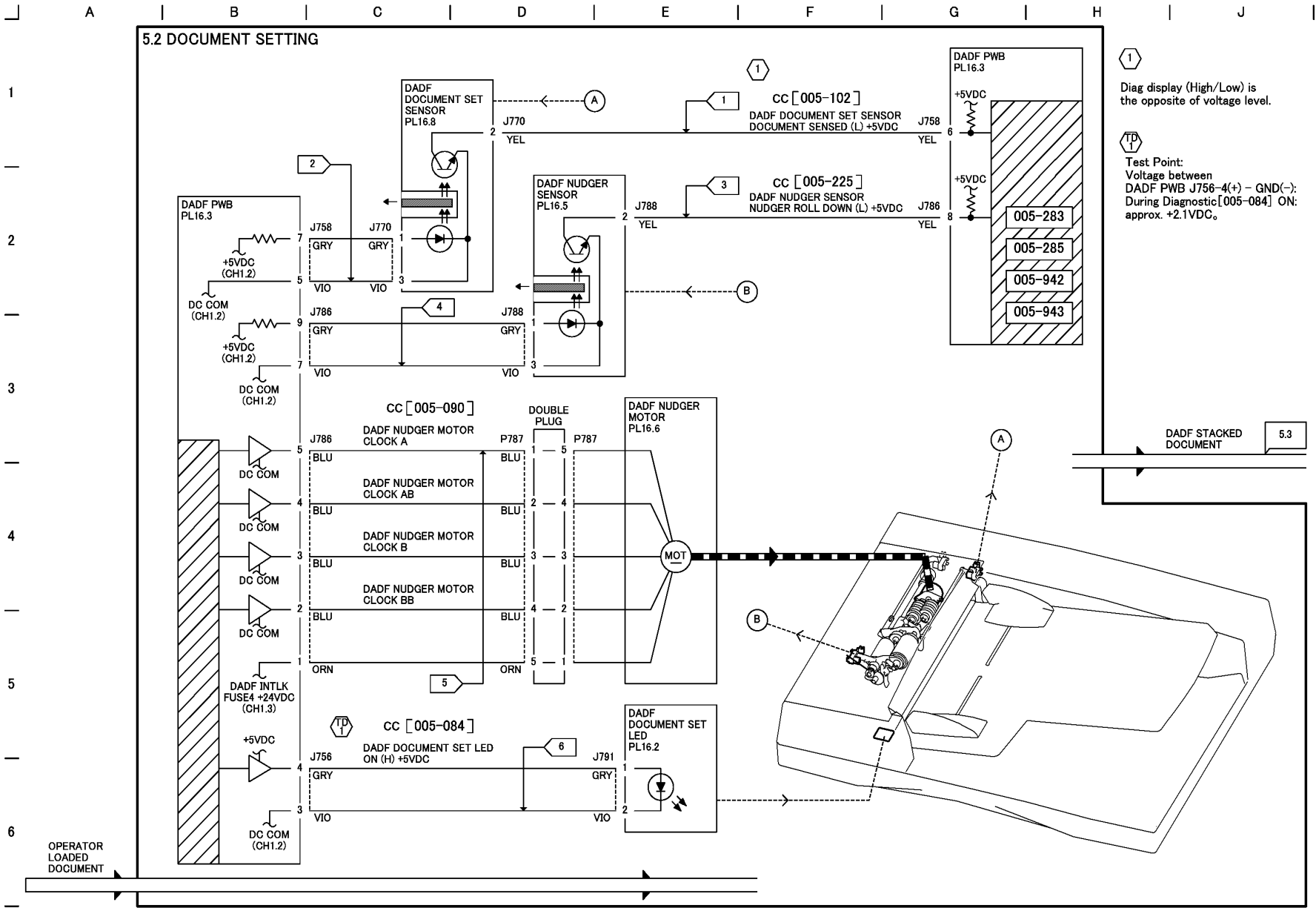


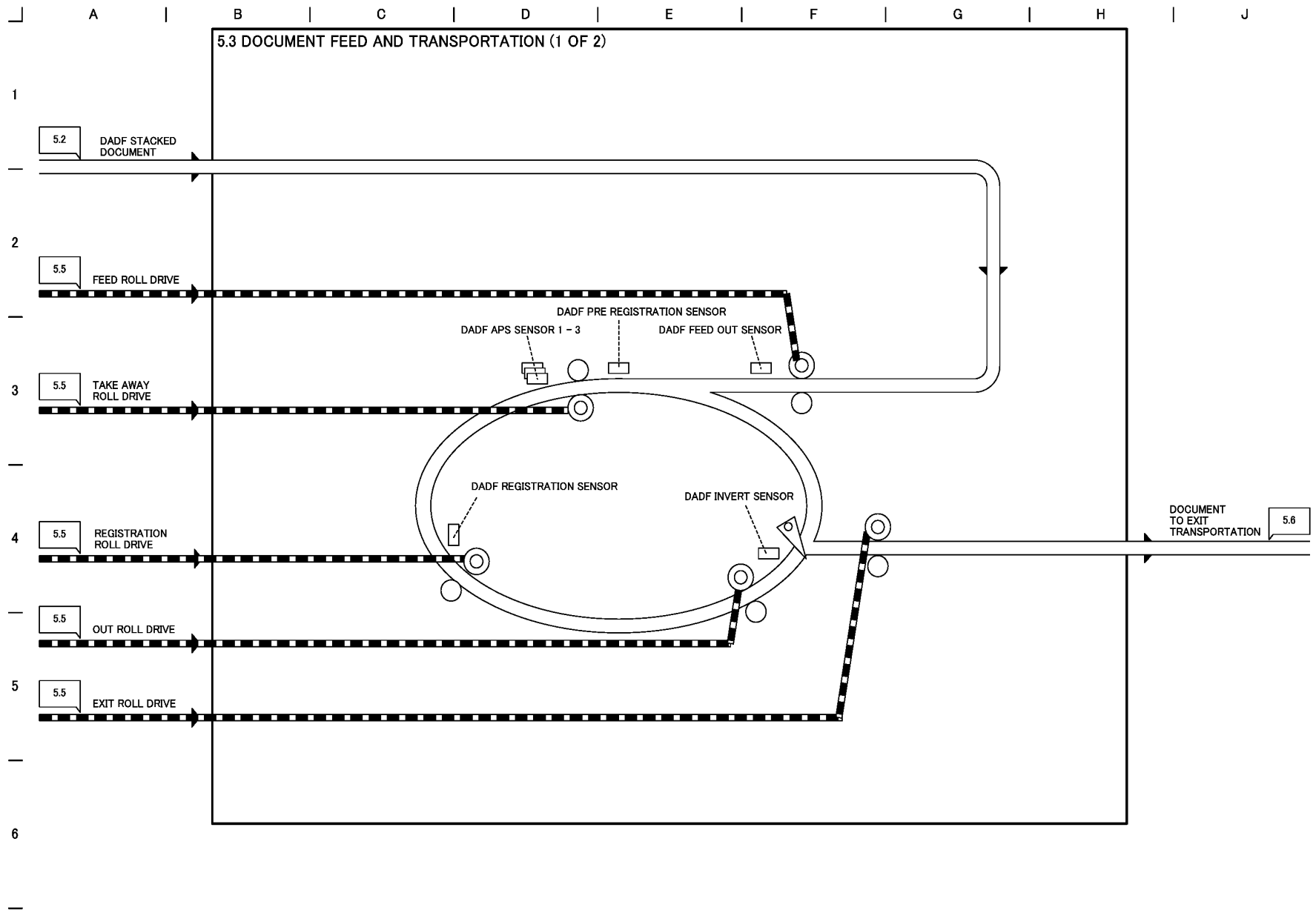
Figure 1 5.1 DOCUMENT SIZE SENSING (t705741a-eln)

t705741a-eln



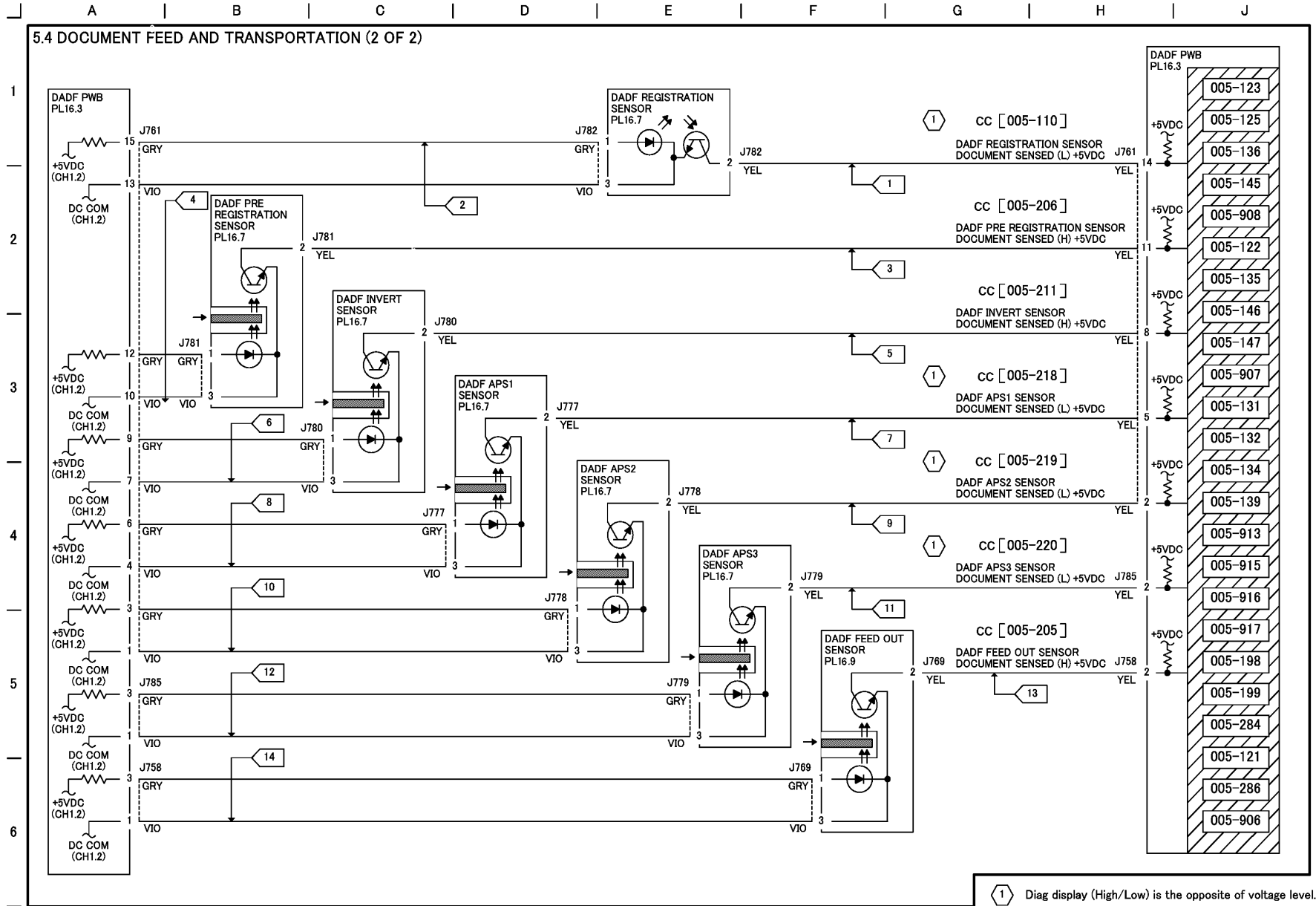
t705742a-eln

Figure 2 5.2 DOCUMENT SETTING (t705742a-eln)



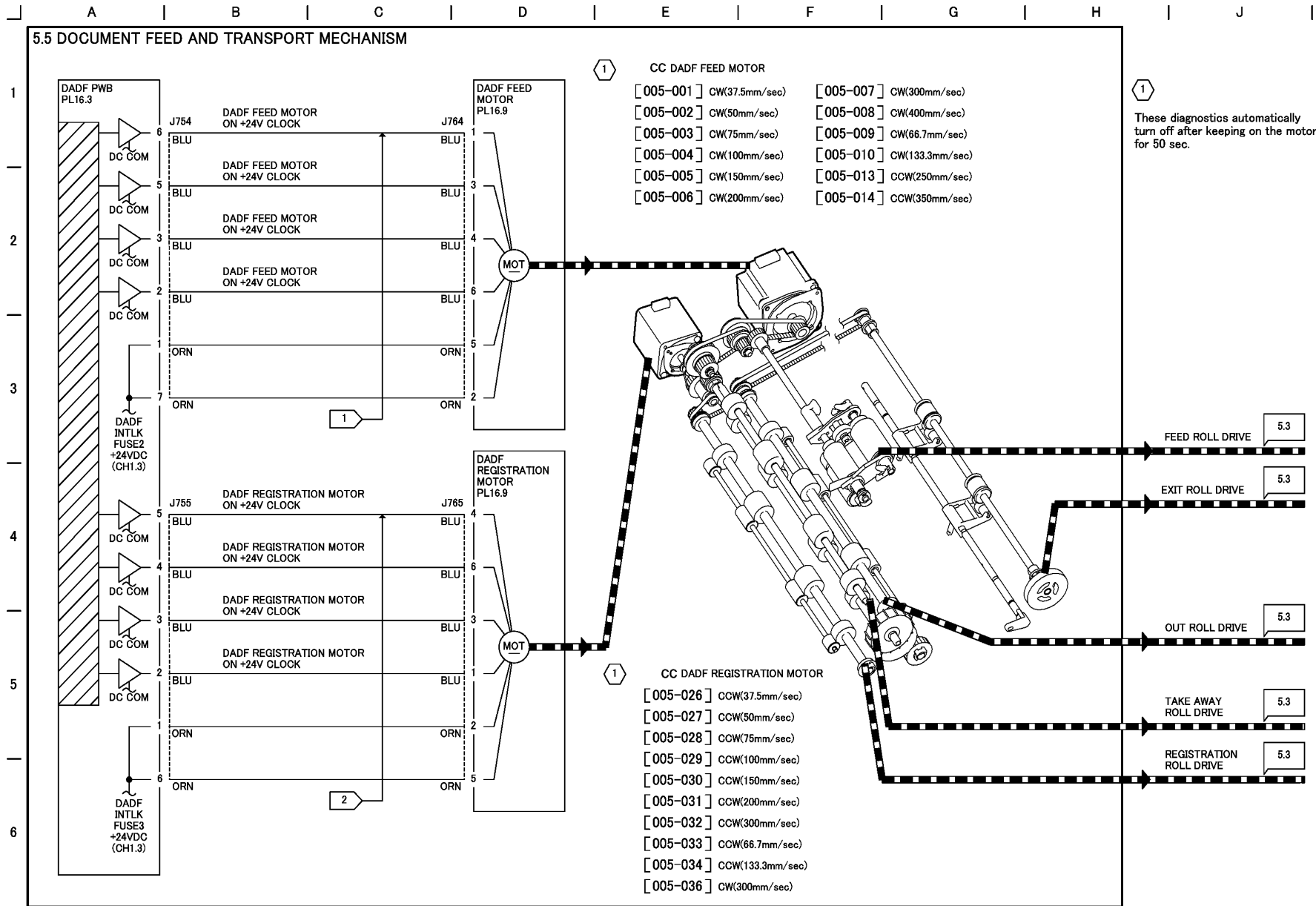
j0st90503

Figure 3 5.3 DOCUMENT FEED AND TRANSPORTATION (1 OF 2) (j0st90503)



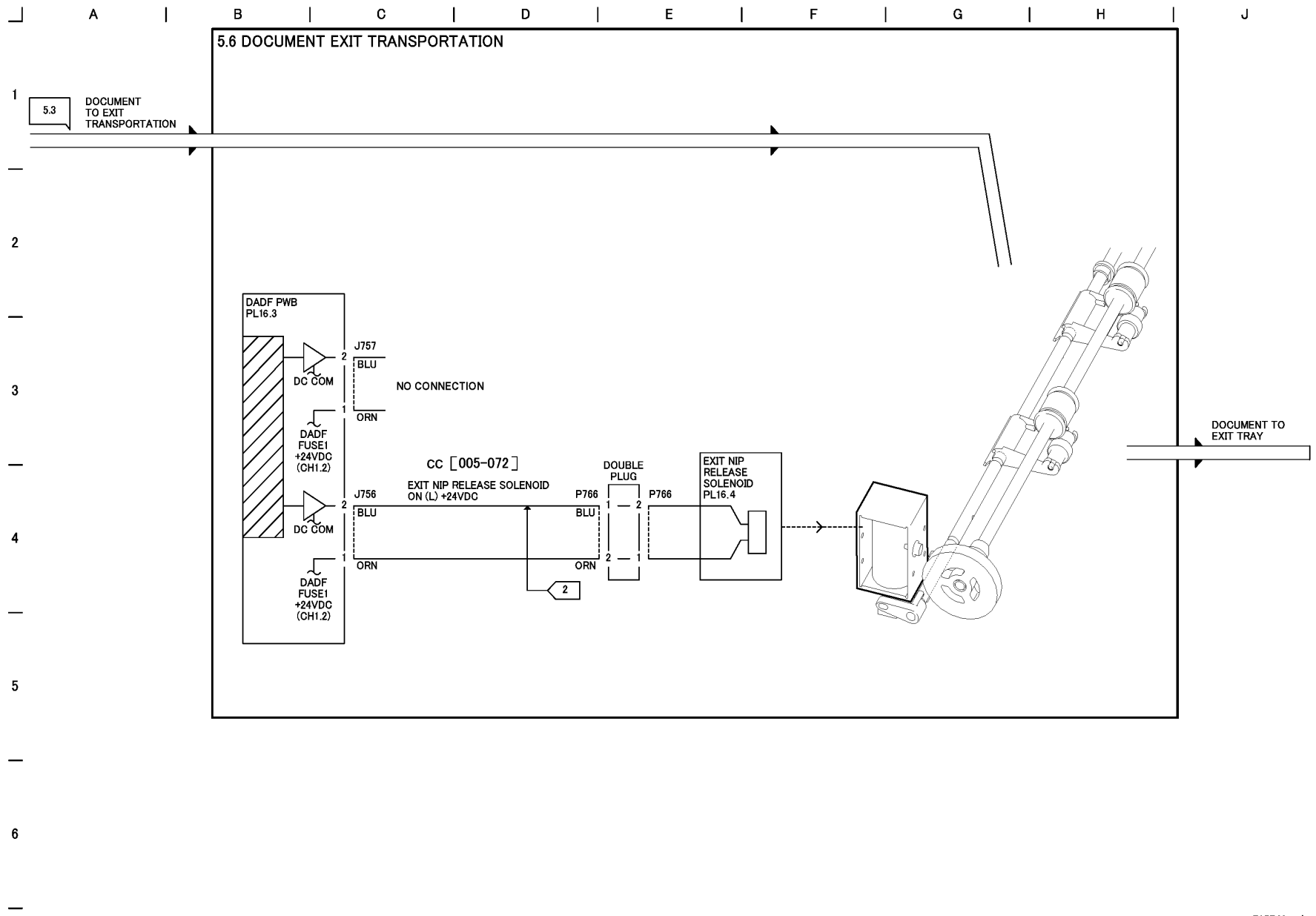
t705744a-eln

Figure 4 5.4 DOCUMENT FEED AND TRANSPORTATION (2 OF 2) (t705744a-eln)



t705745a-eln

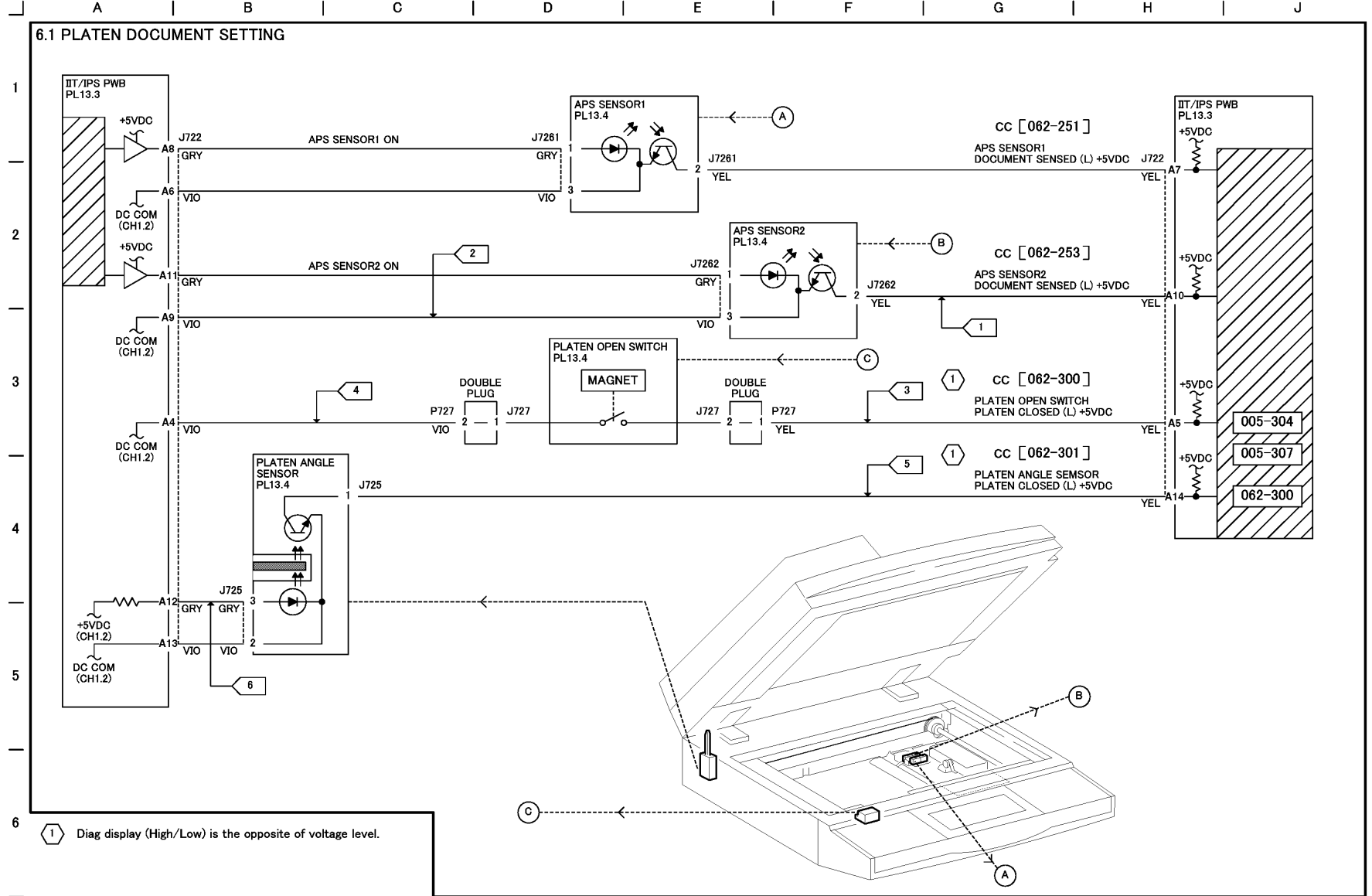
Figure 5.5 DOCUMENT FEED AND TRANSPORT MECHANISM (t705745a-eln)



t705746a-eln

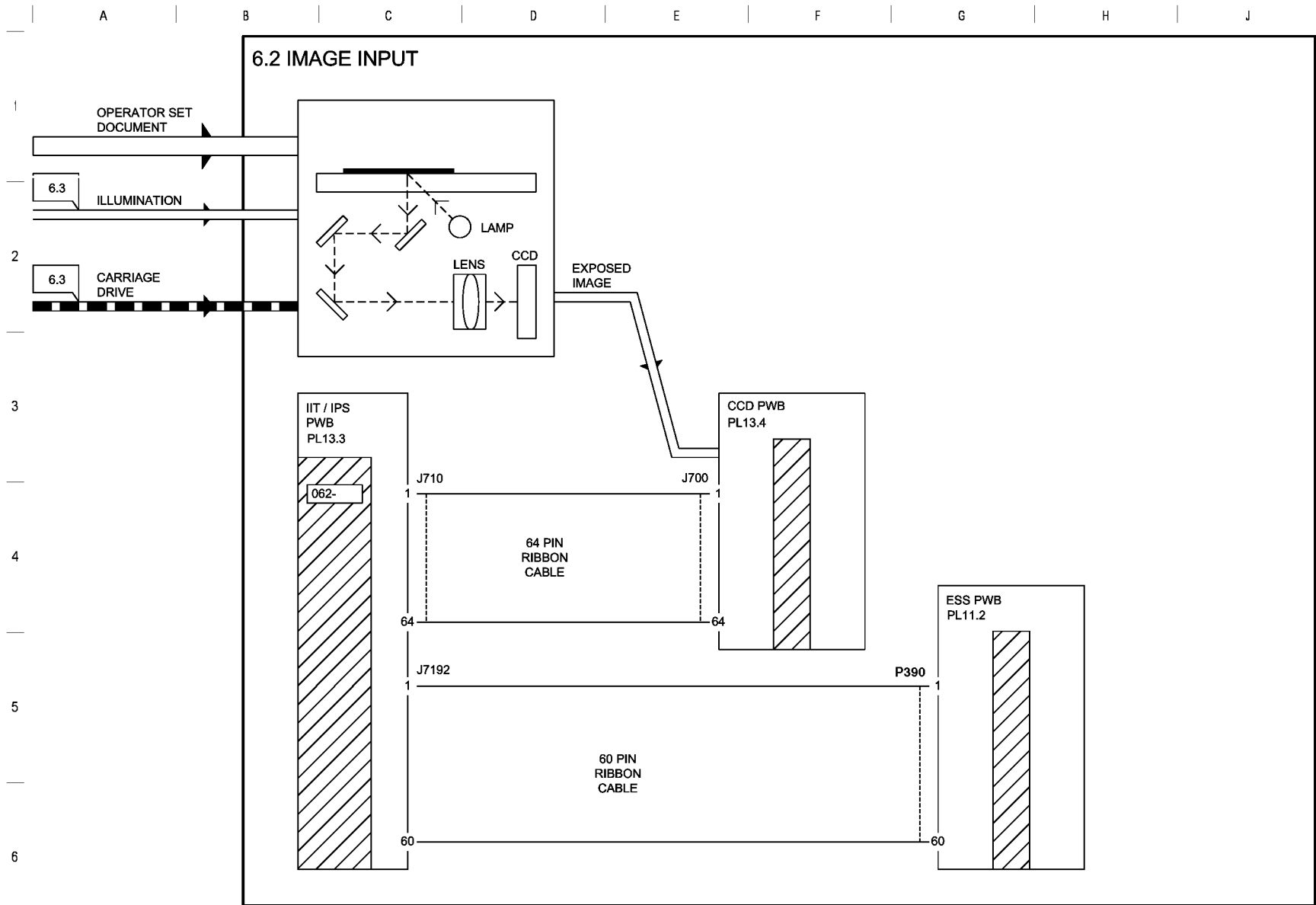
Figure 6 5.6 DOCUMENT EXIT TRANSPORTATION (t705746a-eln)

Chain 6 Imaging



t706751a-eln

Figure 1 6.1 PLATEN DOCUMENT SETTING (t706751a-eln)



T706752A-ELN

Figure 2 6.2 IMAGE INPUT (t706752a-eln)

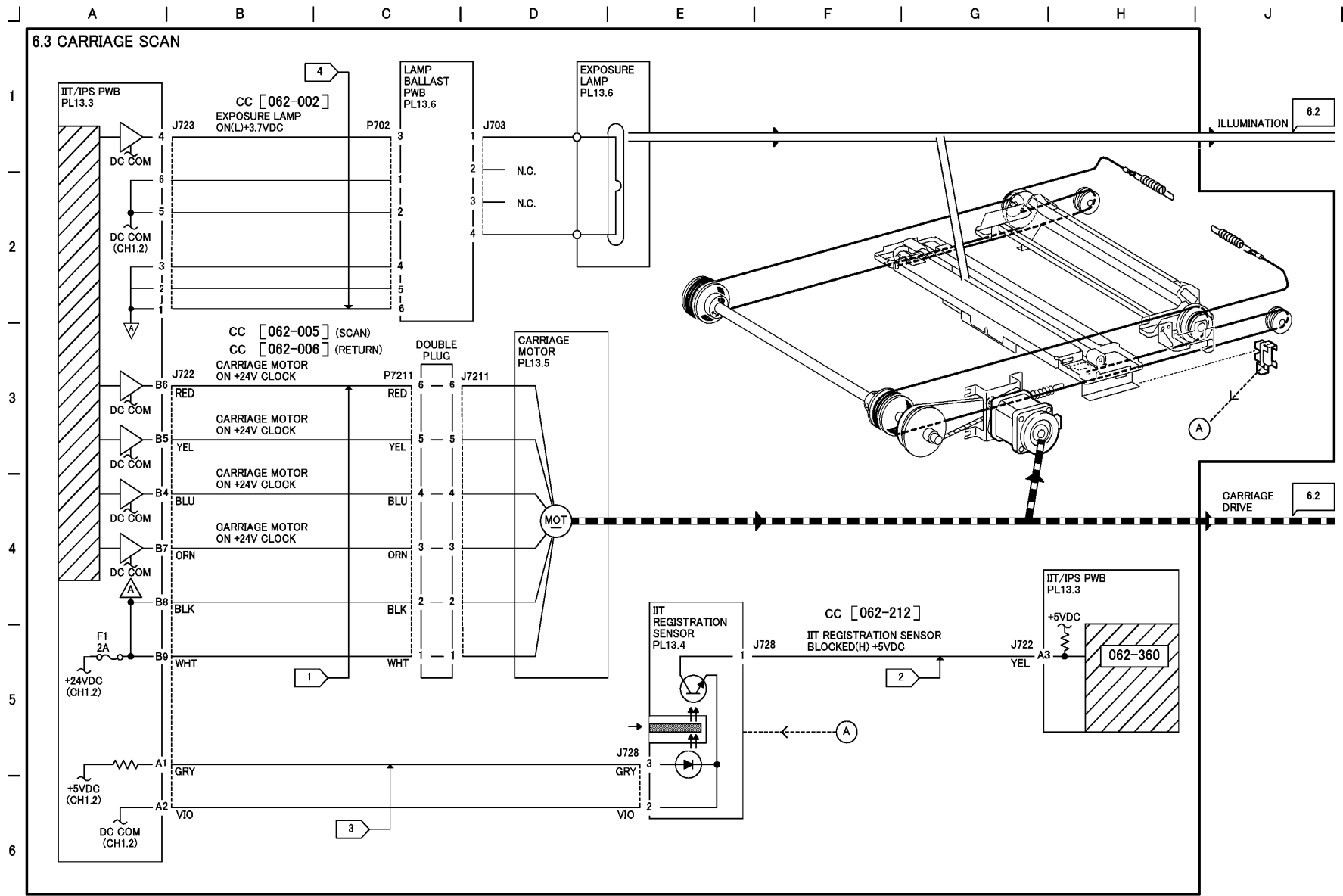
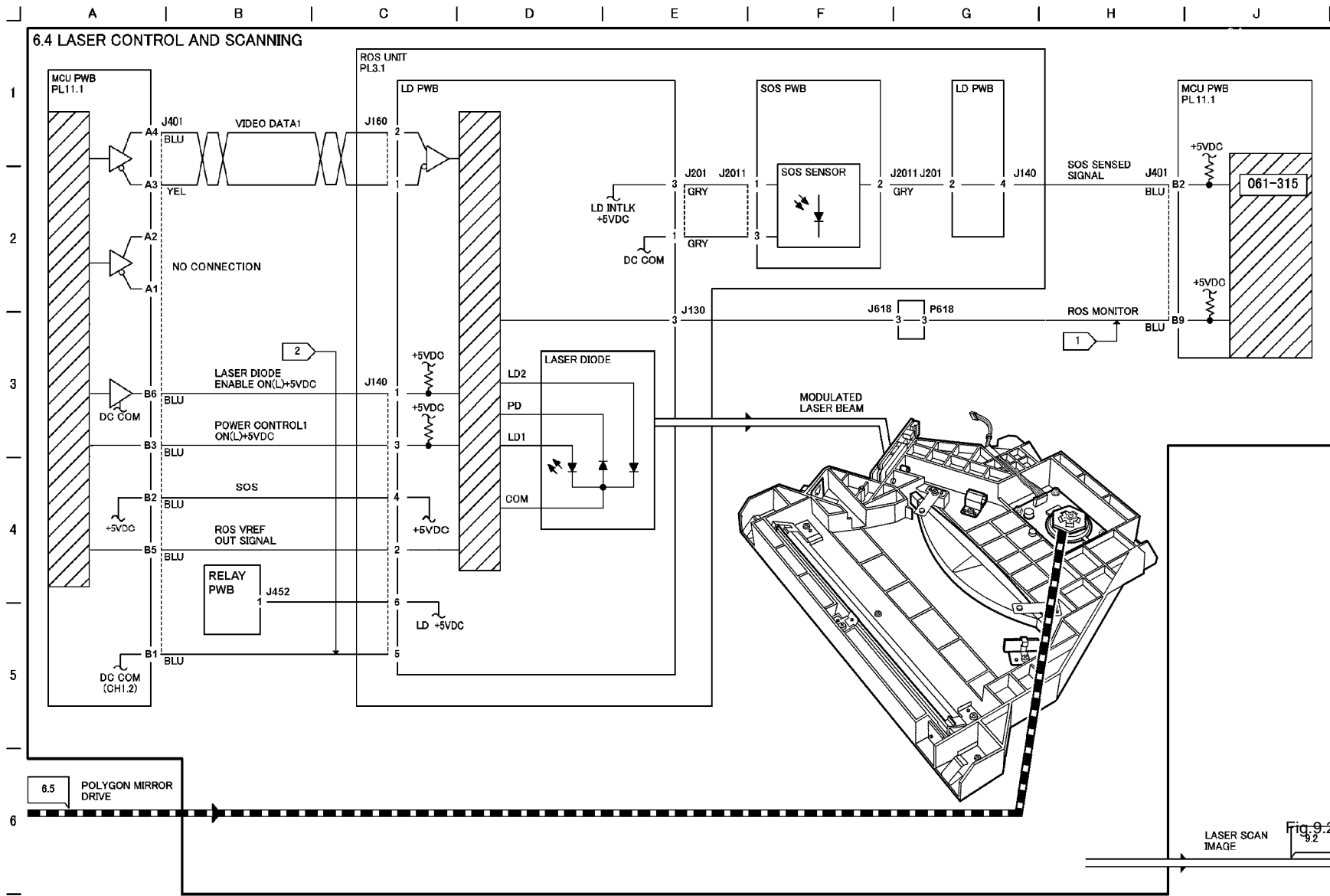
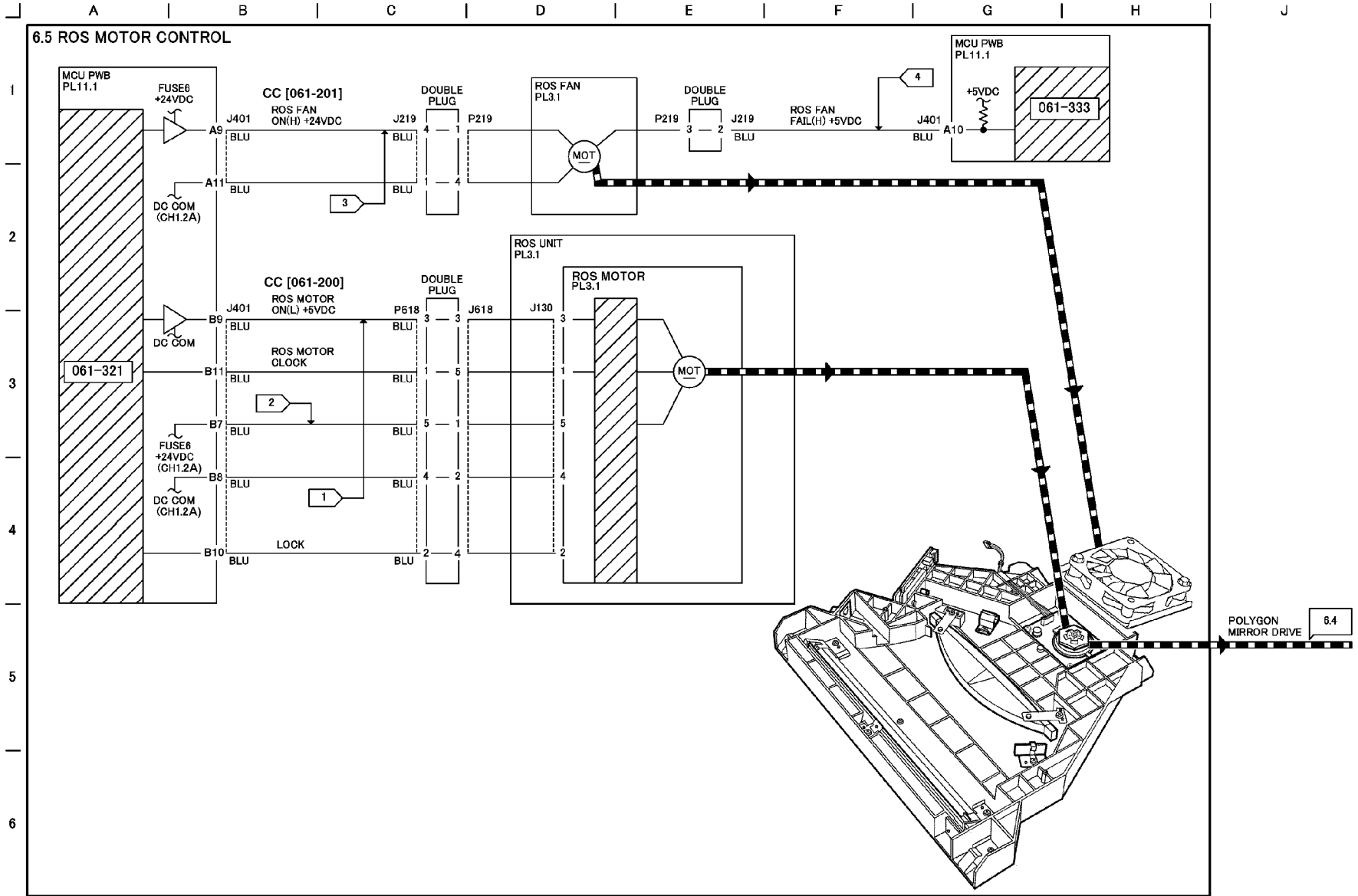


Figure 3 6.3 CARRIAGE SCAN (t706753a-eln)



T706754A-ELN

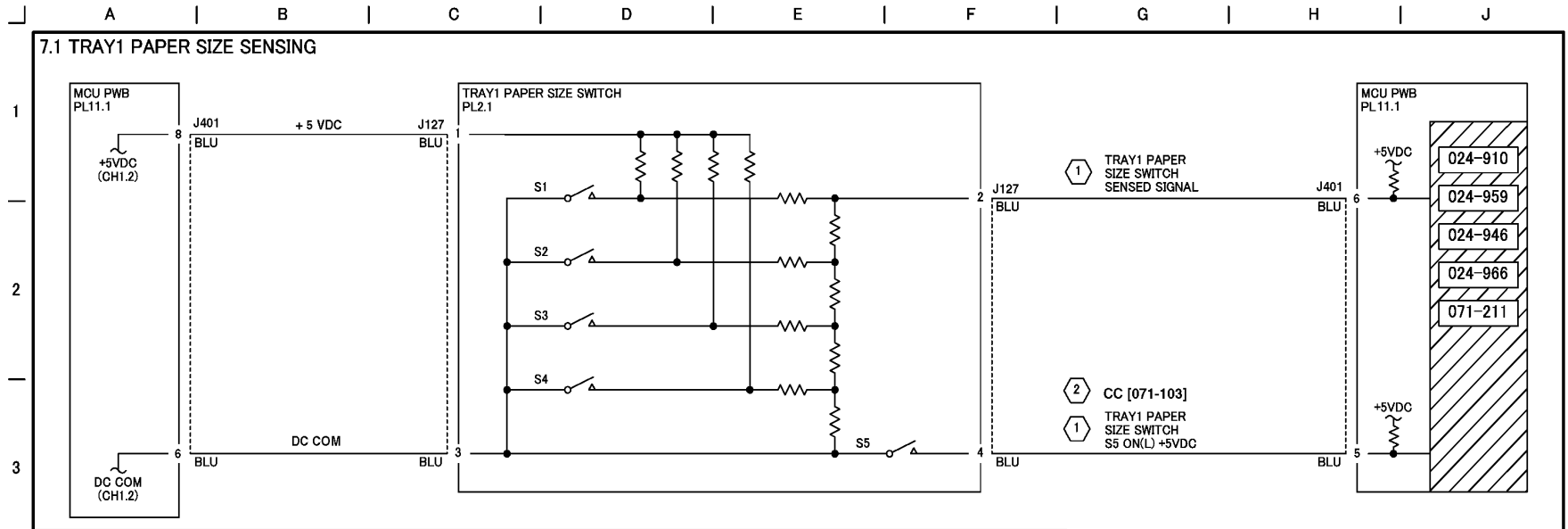
Figure 4 6.4 LASER CONTROL AND SCANNING (t706754a-eln)



T706755A-ELN

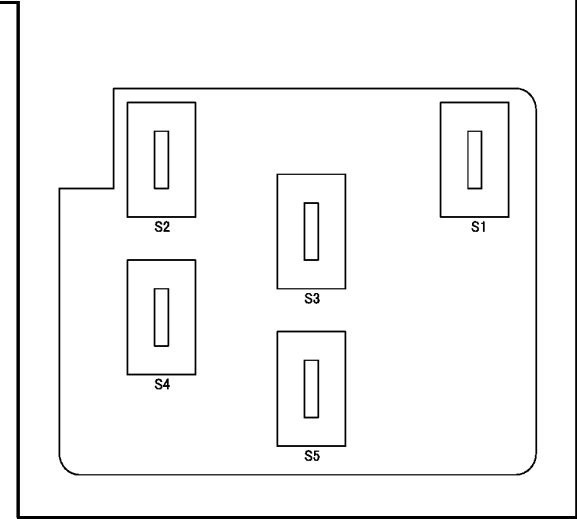
Figure 5 6.5 ROS MOTOR CONTROL (t706755a-eln)

Chain 7 Paper Supply



1 Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

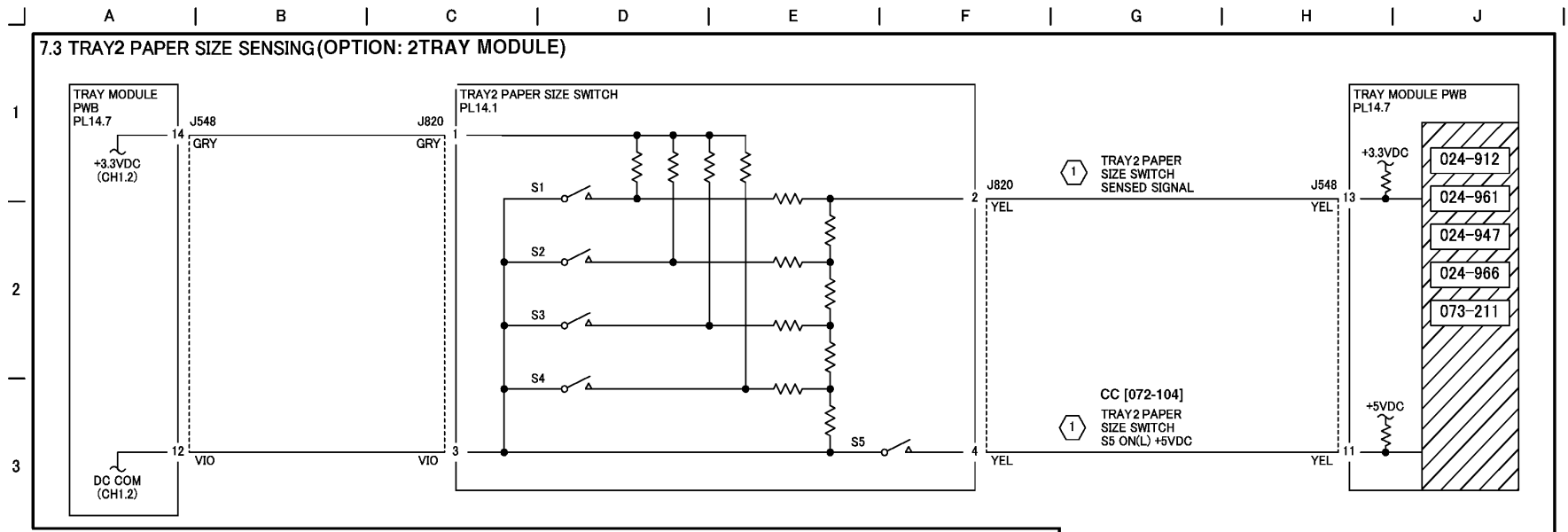
Paper size	S1	S2	S3	S4	S5	Voltage value(V) J412-3
NO TRAY	OFF	OFF	OFF	OFF	OFF	4.66±0.05
A5 S/5.5" × 8.5"S	OFF	OFF	ON	OFF	OFF	4.01±0.05
B5 S	OFF	OFF	ON	ON	ON	3.69±0.05
8.5" × 13"S	OFF	ON	OFF	ON	OFF	3.07±0.05
8.5" × 14"S	OFF	ON	OFF	ON	ON	
A4 S	OFF	ON	ON	OFF	OFF	2.75±0.05
8.5" × 11"S	OFF	ON	ON	OFF	ON	
A4 L	ON	OFF	ON	OFF	OFF	1.52±0.05
A3	ON	OFF	ON	ON	OFF	1.21±0.05
B5 L/Executive L	ON	ON	OFF	OFF	ON	0.91±0.05
8K S (GCO),(TFX)	ON	ON	OFF	ON	OFF	0.60±0.05
B4	ON	ON	OFF	ON	ON	
8.5" × 11"L	ON	ON	ON	OFF	OFF	0.30±0.05
16K S (GCO),(TFX)	ON	ON	ON	OFF	ON	
11" × 17"	ON	ON	ON	ON	ON	0.00±0.05



2 Diag display (High/Low) is the opposite of voltage level.

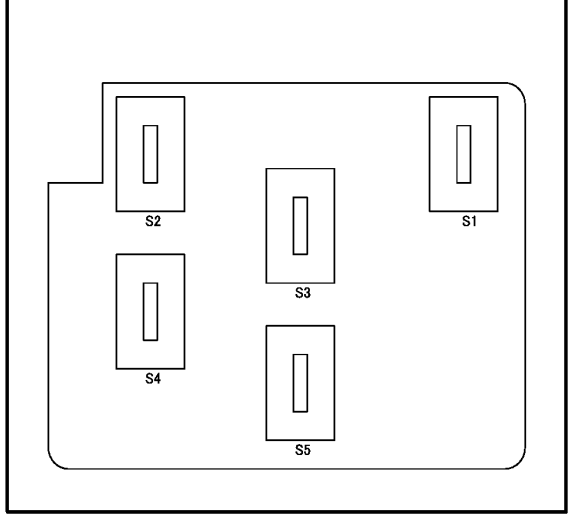
t707761a-eln

Figure 1 7.1 TRAY 1 PAPER SIZE SENSING (t707761a-eln)



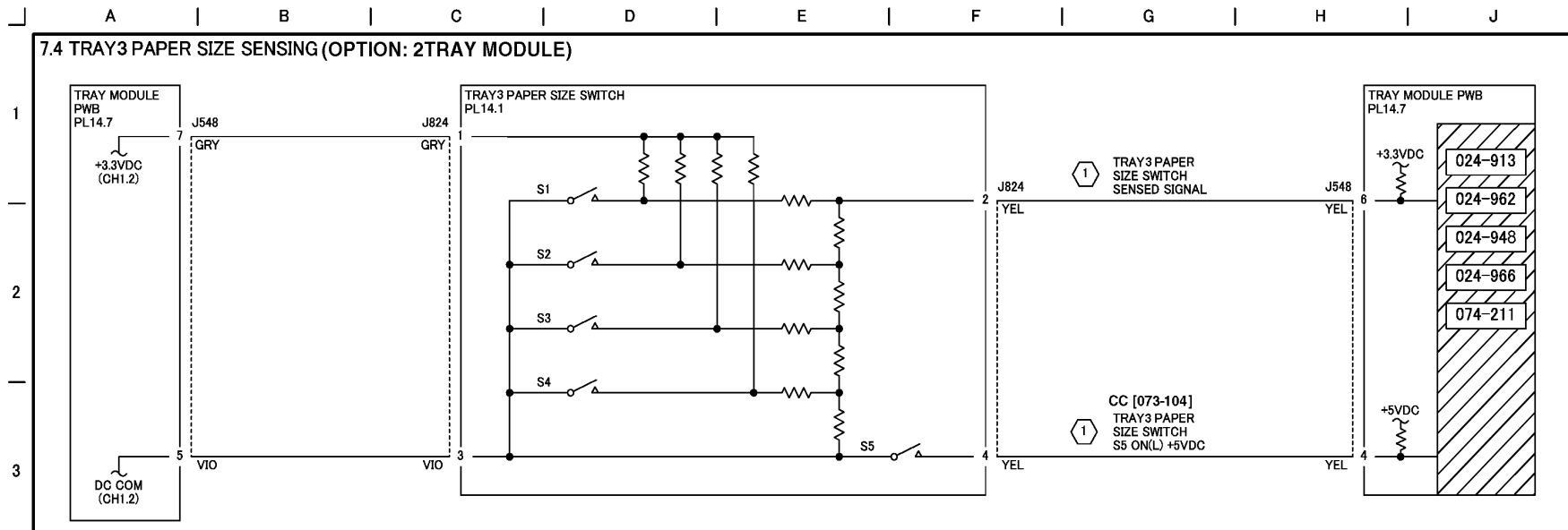
1 Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

Paper size	S1	S2	S3	S4	S5	Voltage value(V) J548-13
NO TRAY	OFF	OFF	OFF	OFF	OFF	3.06±0.03
A5 S/5.5" × 8.5"S	OFF	OFF	ON	OFF	OFF	2.65±0.03
B5 S	OFF	OFF	ON	ON	ON	2.45±0.03
8.5" × 13"S	OFF	ON	OFF	ON	OFF	2.05±0.03
8.5" × 14"S	OFF	ON	OFF	ON	ON	
A4 S	OFF	ON	ON	OFF	OFF	1.85±0.03
8.5" × 11"S	OFF	ON	ON	OFF	ON	
A4 L	ON	OFF	ON	OFF	OFF	1.07±0.03
A3	ON	OFF	ON	ON	OFF	0.87±0.03
B5 L/Executive L	ON	ON	OFF	OFF	ON	0.68±0.03
8K S (GCO),(TFX)	ON	ON	OFF	ON	OFF	0.49±0.03
B4	ON	ON	OFF	ON	ON	
8.5" × 11"L	ON	ON	ON	OFF	OFF	0.29±0.03
16K S(GCO),(TFX)	ON	ON	ON	OFF	ON	
11" × 17"	ON	ON	ON	ON	ON	0.1±0.03



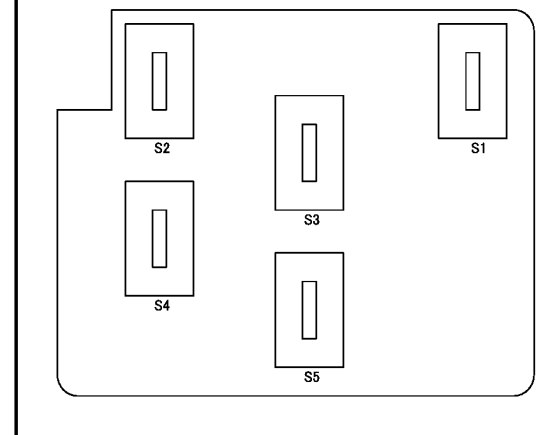
t707763a-eln

Figure 2 7.3 TRAY 2 PAPER SIZE SENSING (t707763a-eln)



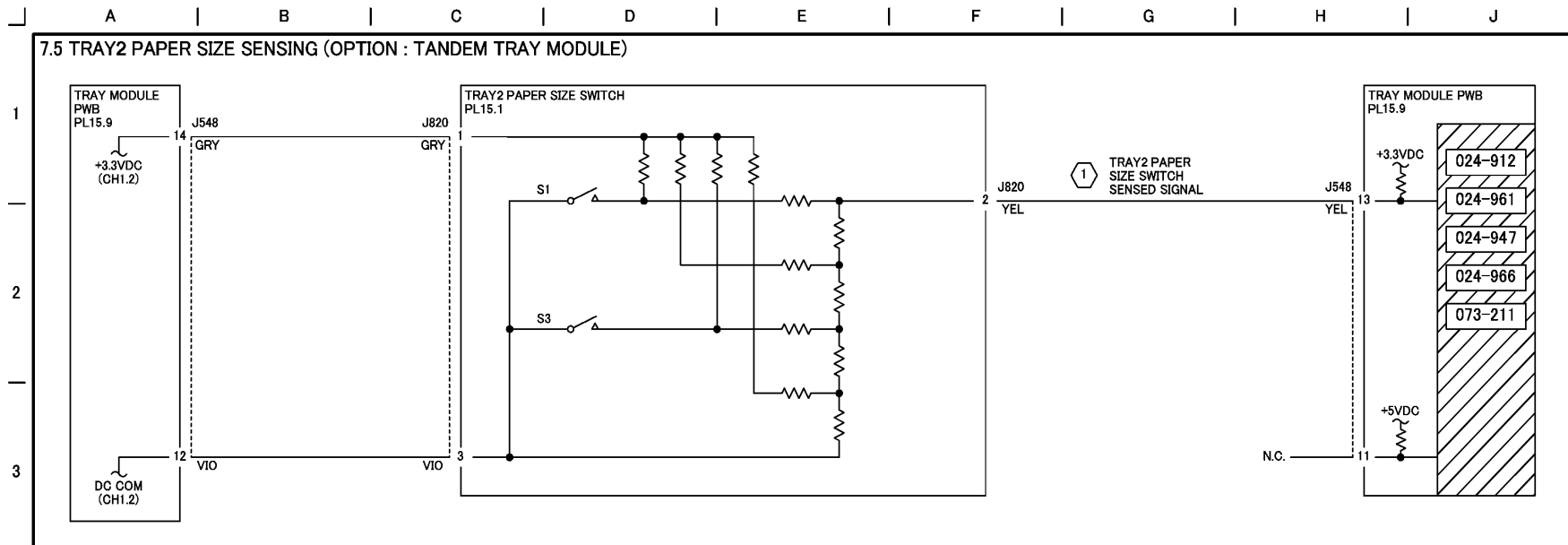
① Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

Paper size	S1	S2	S3	S4	S5	Voltage value(V) J548-6
NO TRAY	OFF	OFF	OFF	OFF	OFF	3.06 ± 0.03
A5 S/5.5" x 8.5"S	OFF	OFF	ON	OFF	OFF	2.65 ± 0.03
B5 S	OFF	OFF	ON	ON	ON	2.45 ± 0.03
8.5" x 13"S	OFF	ON	OFF	ON	OFF	2.05 ± 0.03
8.5" x 14"S	OFF	ON	OFF	ON	ON	
A4 S	OFF	ON	ON	OFF	OFF	1.85 ± 0.03
8.5" x 11"S	OFF	ON	ON	OFF	ON	
A4 L	ON	OFF	ON	OFF	OFF	1.07 ± 0.03
A3	ON	OFF	ON	ON	OFF	0.87 ± 0.03
B5 L/Executive L	ON	ON	OFF	OFF	ON	0.68 ± 0.03
8K S (GCO),(TFX)	ON	ON	OFF	ON	OFF	0.49 ± 0.03
B4	ON	ON	OFF	ON	ON	
8.5" x 11"L	ON	ON	ON	OFF	OFF	0.29 ± 0.03
16K S (GCO),(TFX)	ON	ON	ON	OFF	ON	
11" x 17"	ON	ON	ON	ON	ON	0.1 ± 0.03



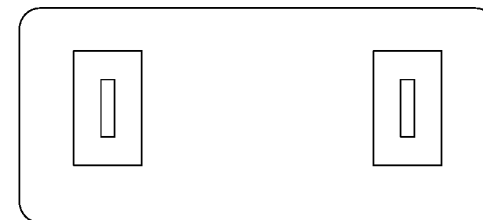
t707764a-eln

Figure 3 7.4 TRAY 3 PAPER SIZE SENSING (t707764a-eln)



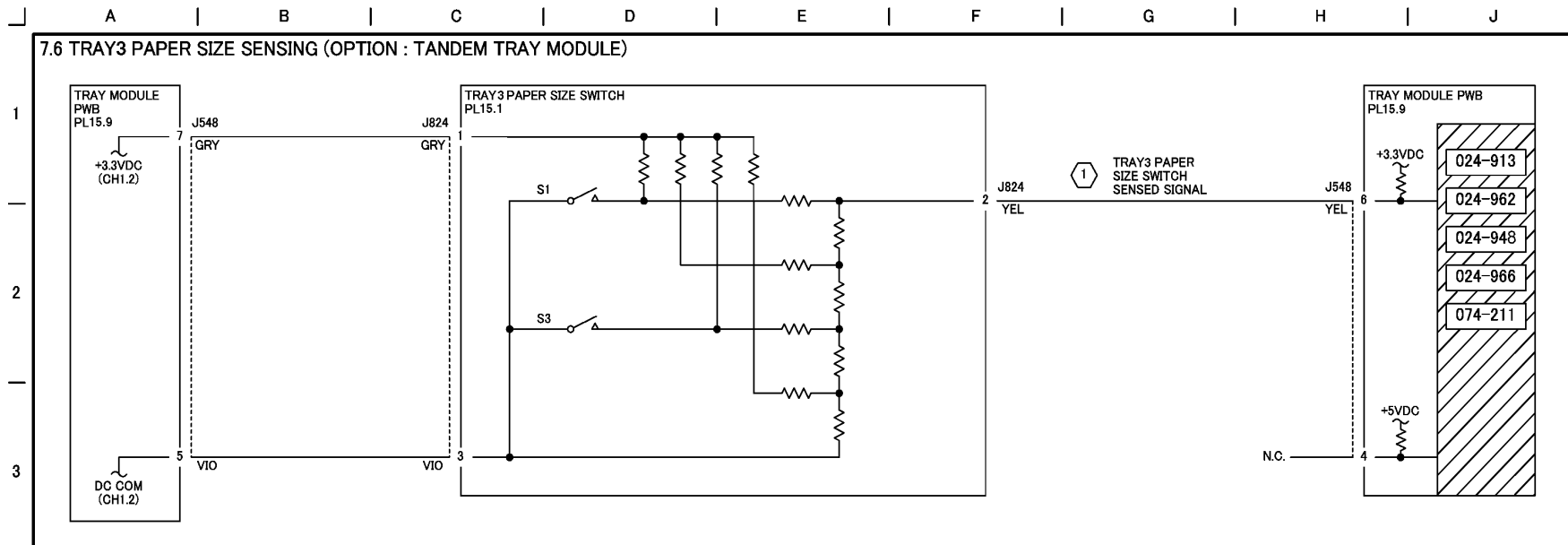
1 Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

Paper size	S1	S3	Voltage value(V) J548-13
NO TRAY	OFF	OFF	3.06 ± 0.03
B5 L/Executive L	OFF	ON	2.61 ± 0.03
8.5" x 11"L	ON	OFF	1.41 ± 0.03
A4 L	ON	ON	1.00 ± 0.03



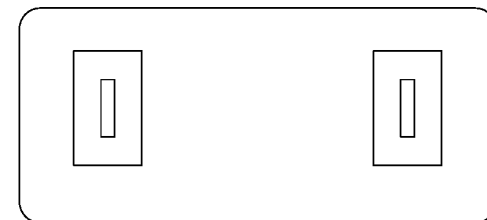
t707765a-eln

Figure 4 7.5 TRAY 2 PAPER SIZE SENSING (OPTION:TANDEM TRAY MODULE) (t707765a-eln)



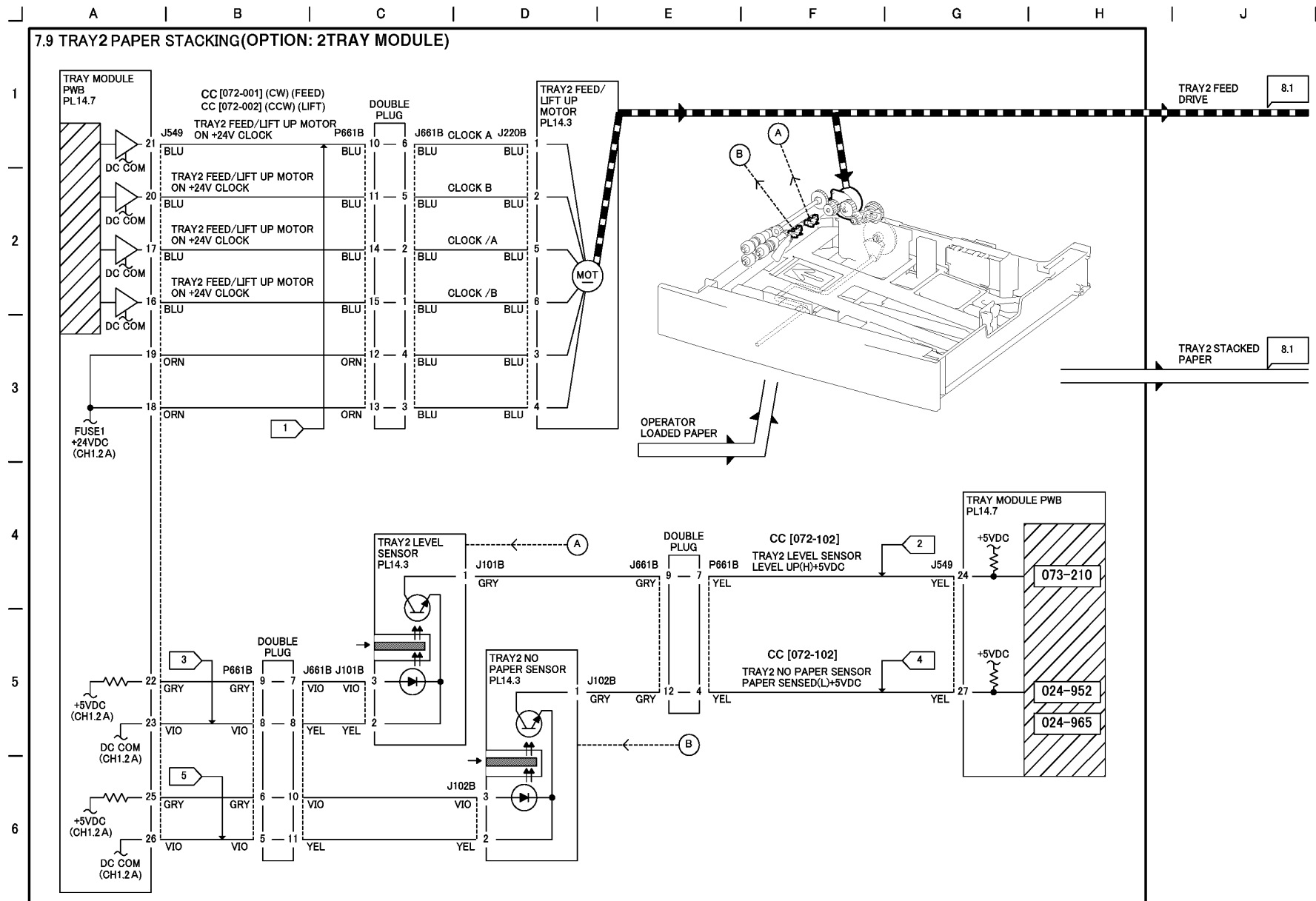
1 Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

Paper size	S1	S3	Voltage value(V) J548-6
NO TRAY	OFF	OFF	3.06±0.03
B5 L/Executive L	OFF	ON	2.61±0.03
8.5" x 11"L	ON	OFF	1.41±0.03
A4 L	ON	ON	1.00±0.03



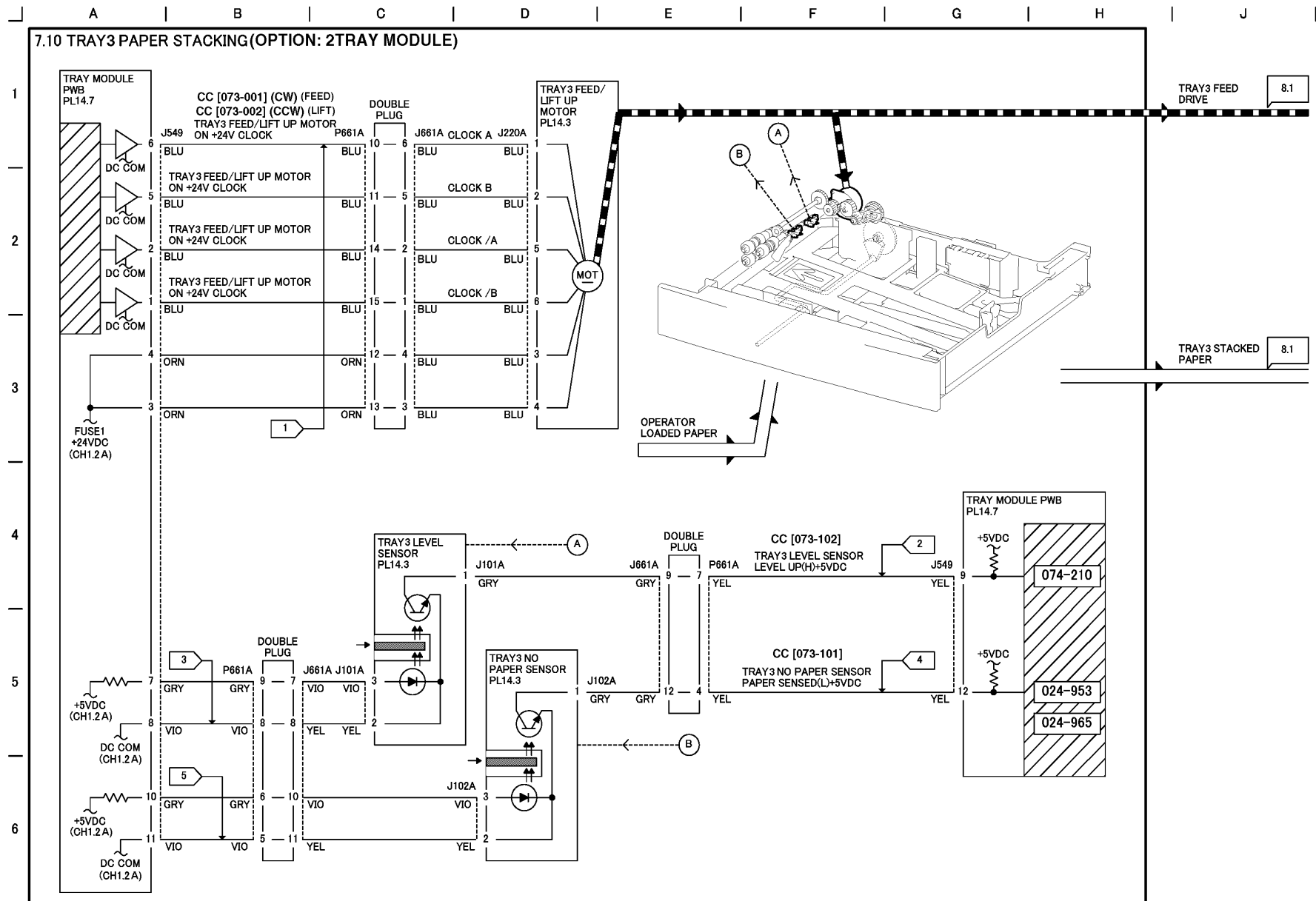
t707766a-eln

Figure 5 7.6 TRAY 3 PAPER SIZE SENSING (OPTION:TANDEM TRAY MODULE) (t707766a-eln)



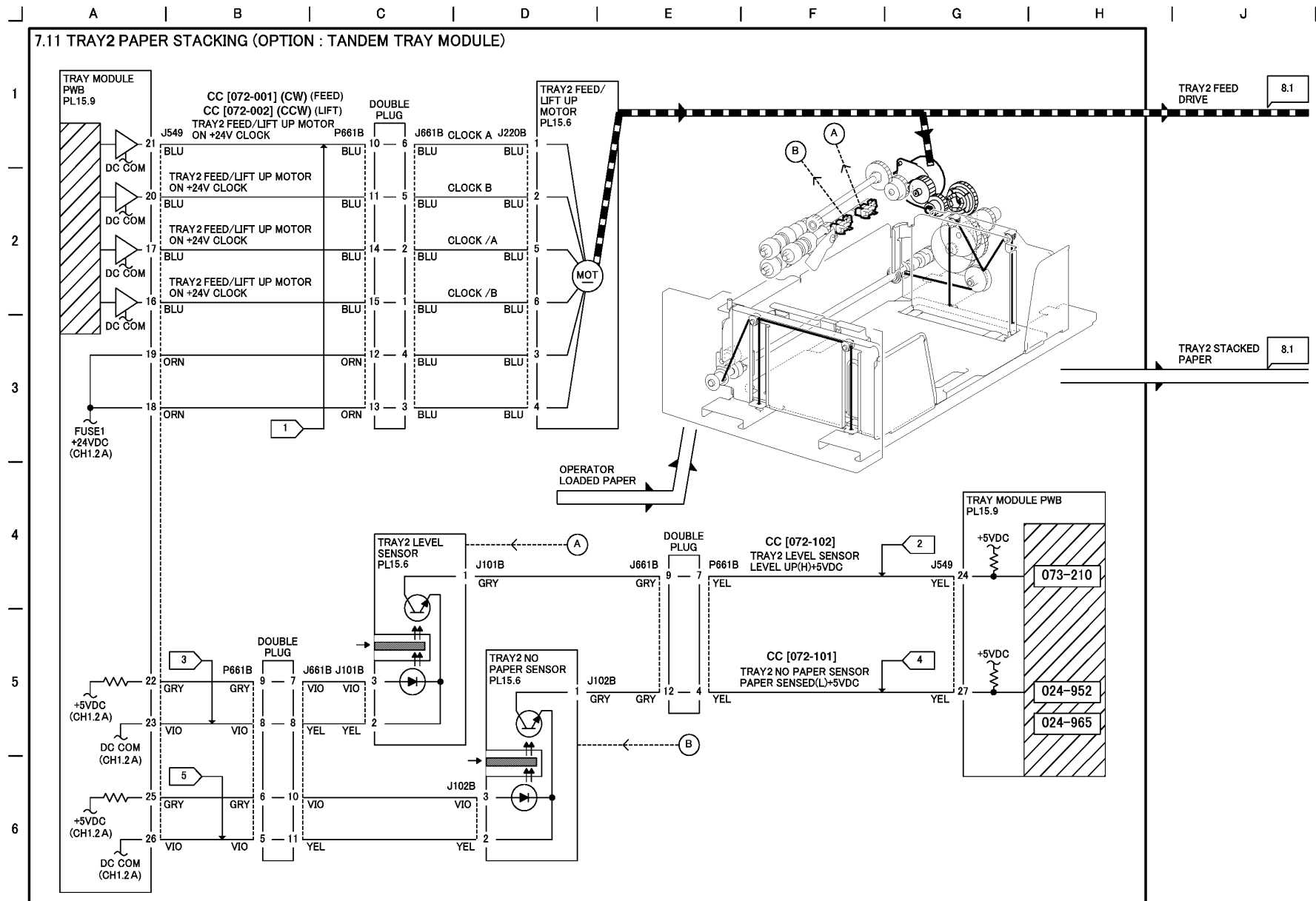
1707769a-eln

Figure 7 7.9 TRAY 2 PAPER STACKING (OPTION:2TRAY MODULE) (t707769a-eln)



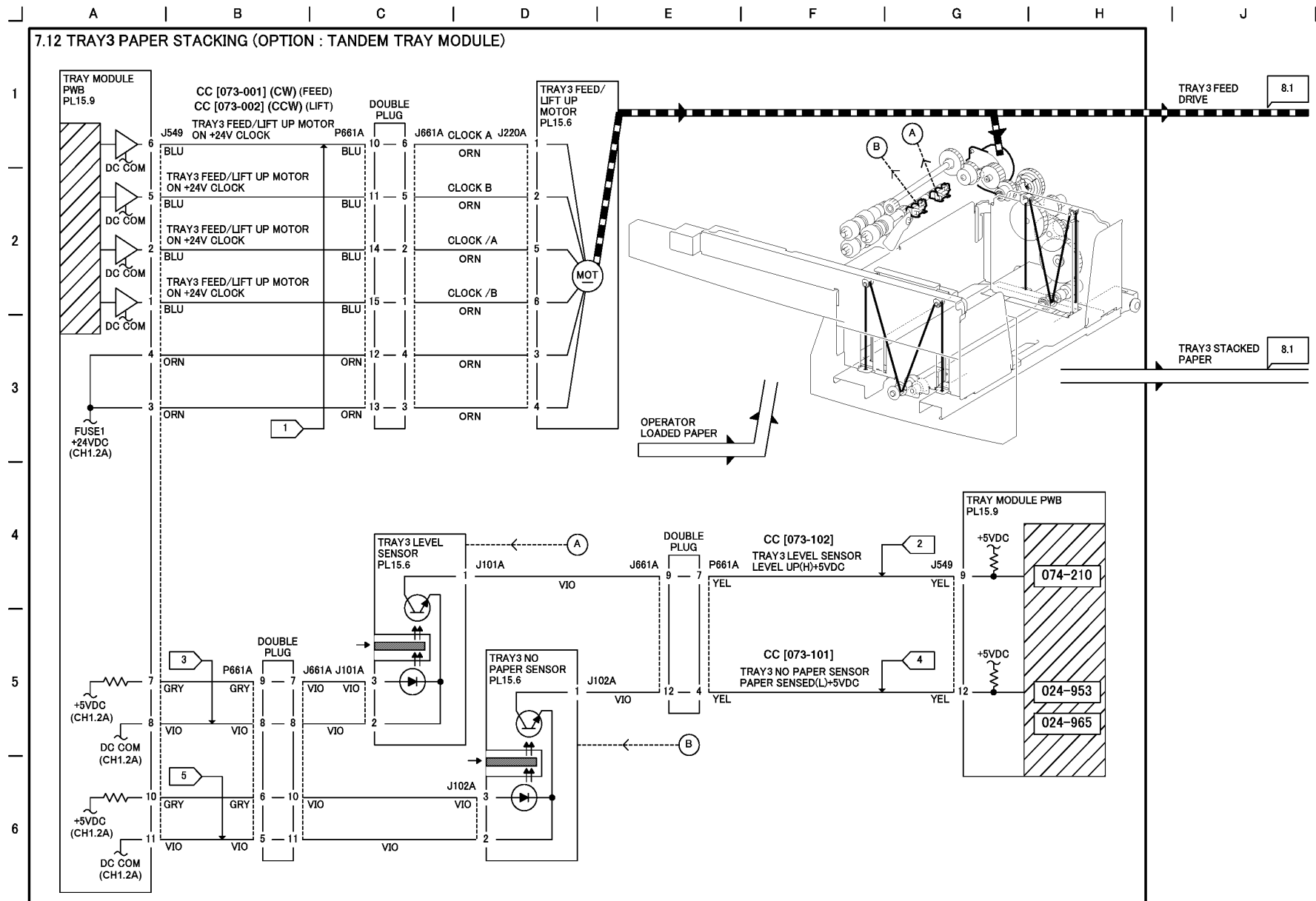
t707770a-eln

Figure 8 7.10 TRAY 3 PAPER STACKING (OPTION:2TRAY MODULE) (t707770a-eln)



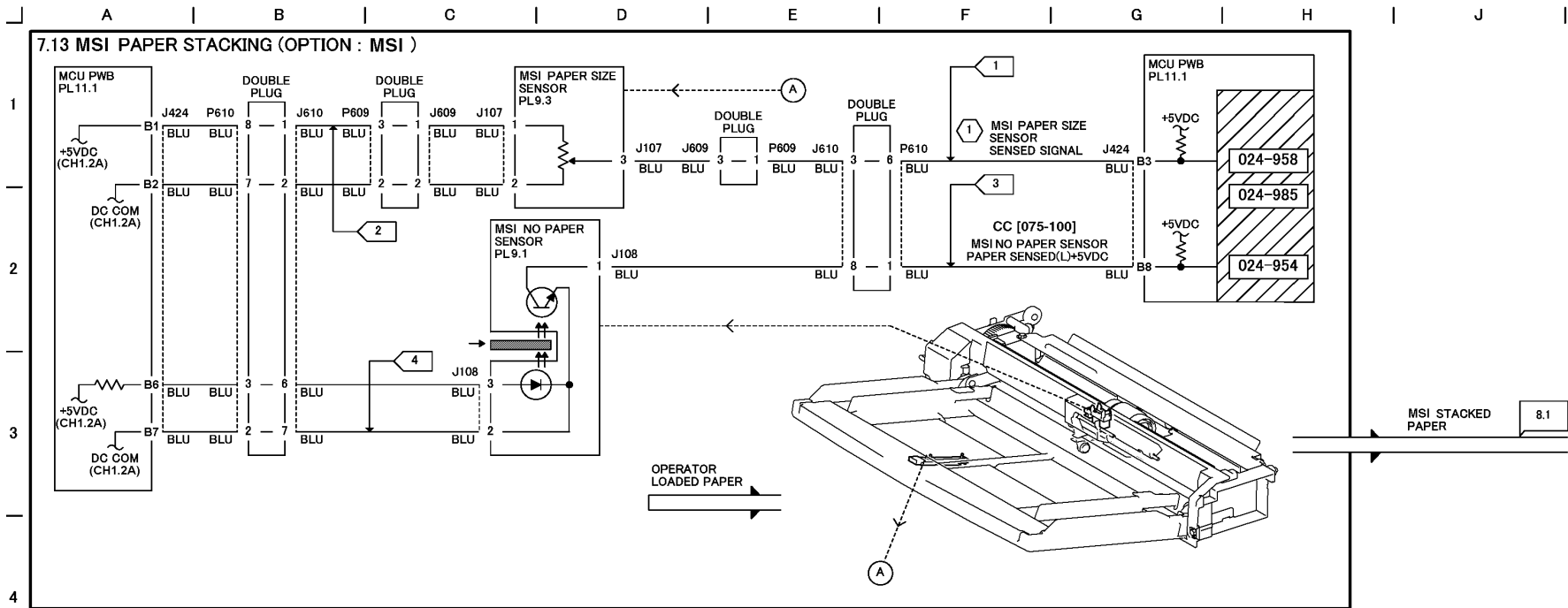
t707771a-eln

Figure 9 7.11 TRAY 2 PAPER STACKING (OPTION:TANDEM TRAY MODULE) (t707771a-eln)



t707772a-eln

Figure 10 7.12 TRAY 3 PAPER STACKING (OPTION:TANDEM TRAY MODULE) (t707772a-eln)



① MSI Paper Size Sensor senses paper width (size in fast scan direction) based on voltage corresponding to resistance. Voltage values corresponding to paper sizes (width) are as follows:

Ref. Paper length (size in slow scan direction) is sensed based on time from when paper turns on Registration Clutch until it finishes passing Registration Sensor.

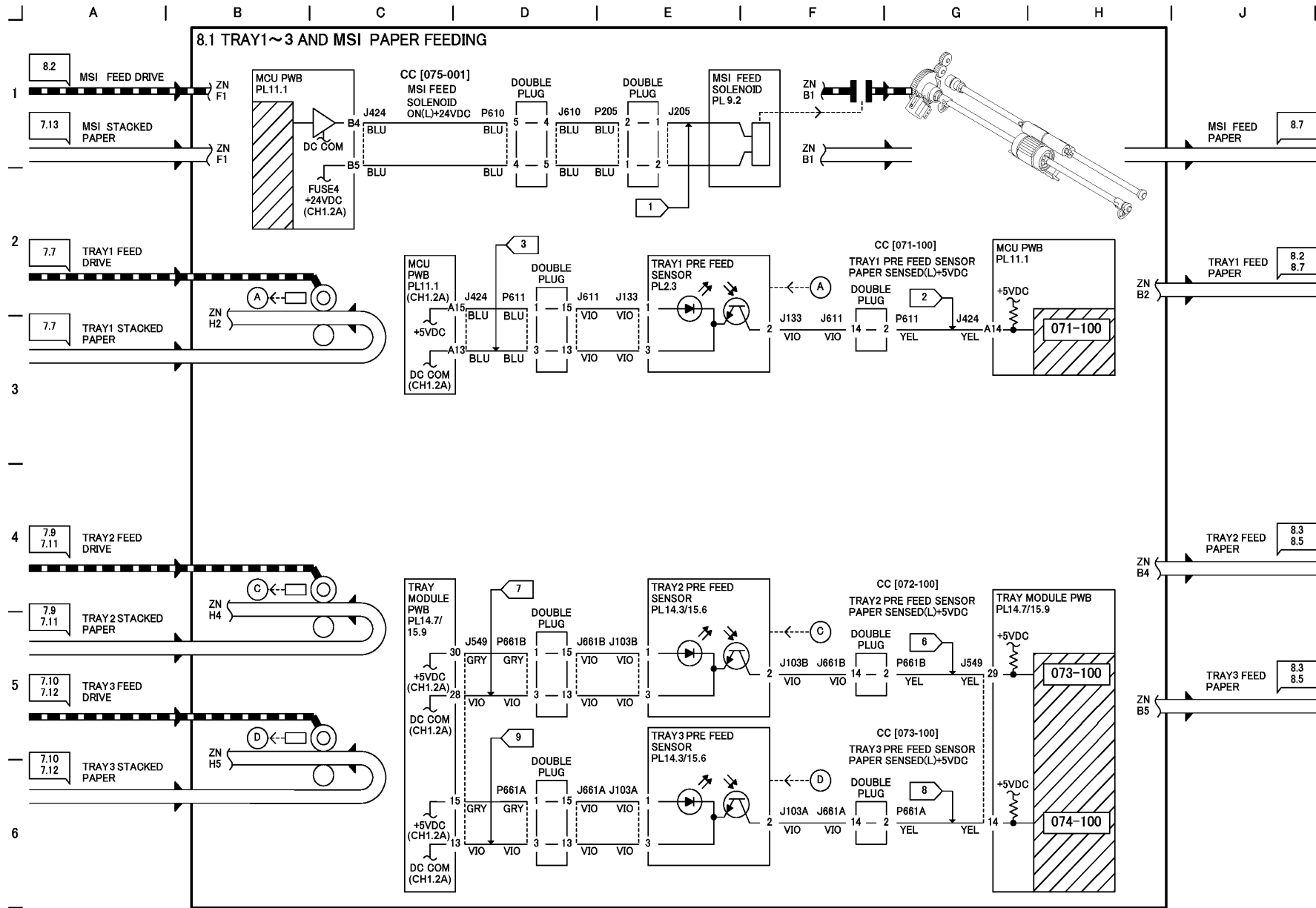
Paper size	Width(mm)	Voltage value(V) J424-B3
Guide Stopper (MIN)	84	4.72
3.5" x 8.5"S	88.9	4.71
Post Card S	101.6	4.48
5.5" x 8.5"S	139.7	3.79
Postcard L/A6 L/A5 S	148	3.64
Post Card L	152.4	3.56
B6 L/B5 S	182	3.03
Monarch L	190.5	2.87
A5 L/A4 S	210	2.52
5.5" x 8.5"L/5.5"x11"S	215.9	2.41
5.5" x 13"S/5.5"x14"S		
DL L	220	2.34

Paper size	Width(mm)	Voltage value(V) J424-B3
C5 L/C4 S	229	2.18
Vertical (Long size) No.3 L	235	2.07
COM10 L	241.3	1.95
B5 L/B4 S	257	1.67
Executive L	266.7	1.50
16K L/8K S (TFX)	267(270)	1.49(1.44)
8.5"x11"L/11"x17"S	279.4	1.27
A4 L/A3 S	297	0.95
Guide Stopper (MAX)	303	0.84

t707773a-eln

Figure 11 7.13 MPT PAPER STACKING (OPTION:MPT) (t707773a-eln)

Chain 8 Paper Feed and Transportation



1708781a-eln

Figure 1 8.1 TRAY1-4 AND MPT PAPER FEEDING (t708781a-eln)

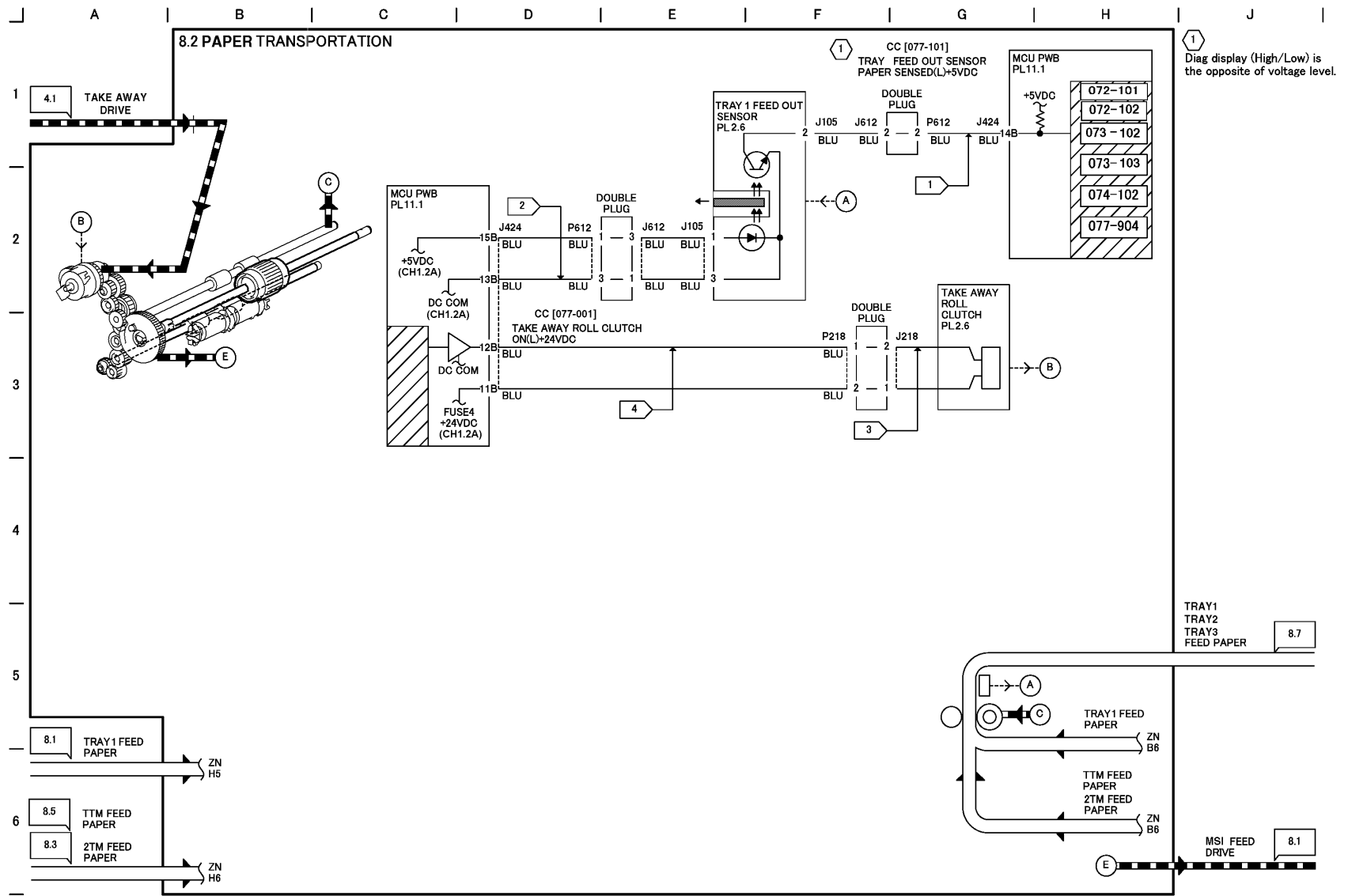


Figure 2 8.2 TRAY2 TRANSPORTATION (t708782a-eIn)

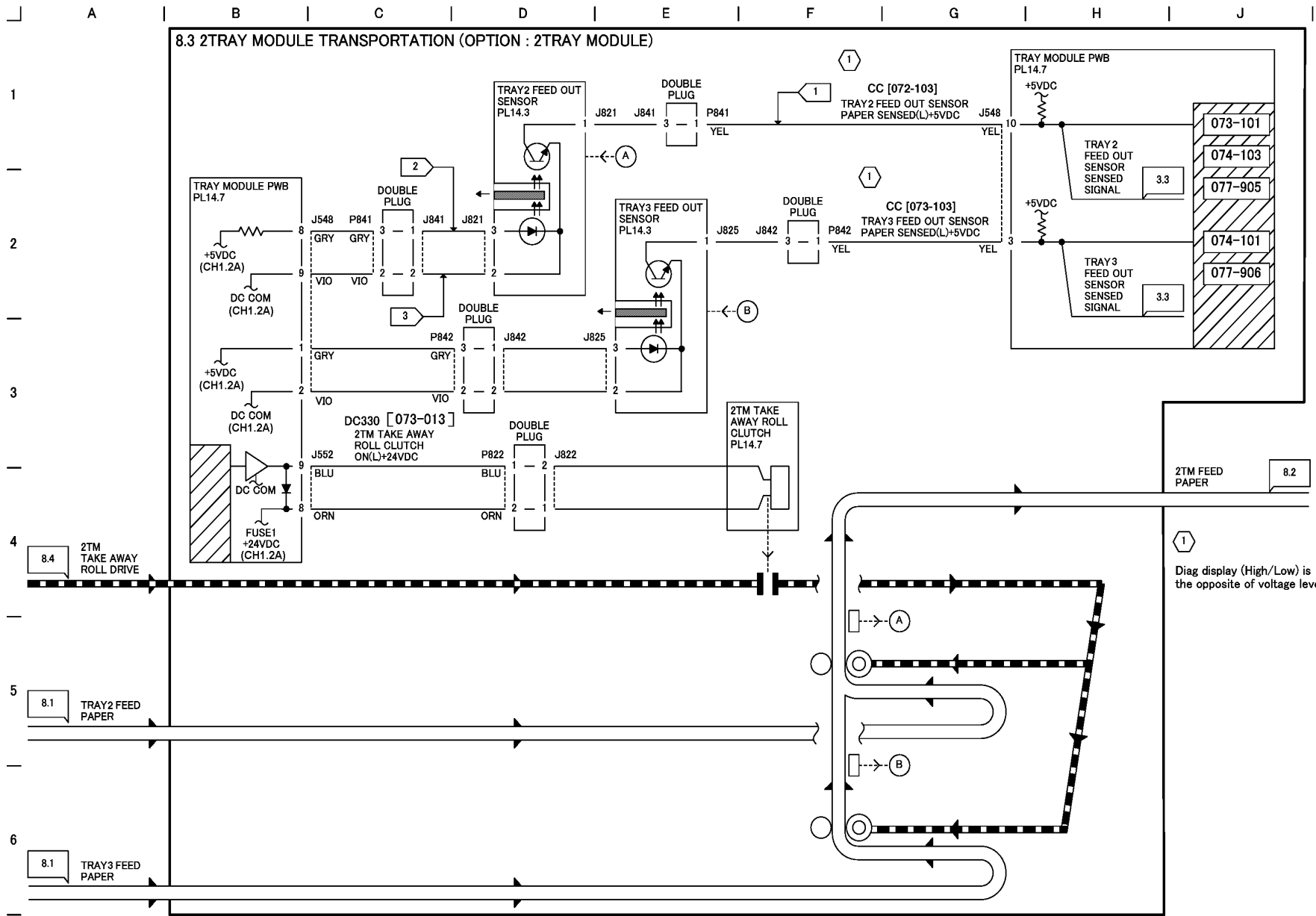
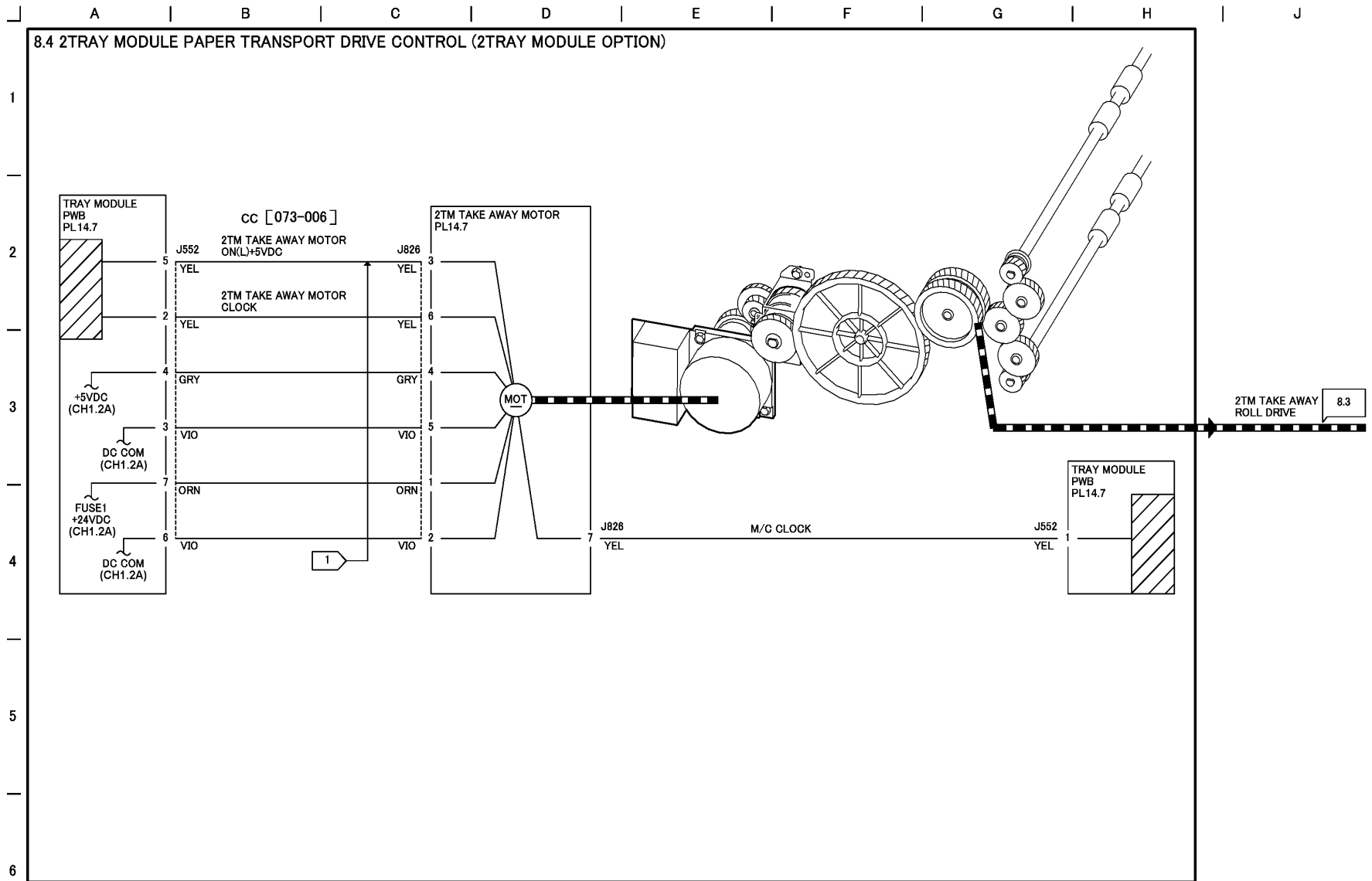
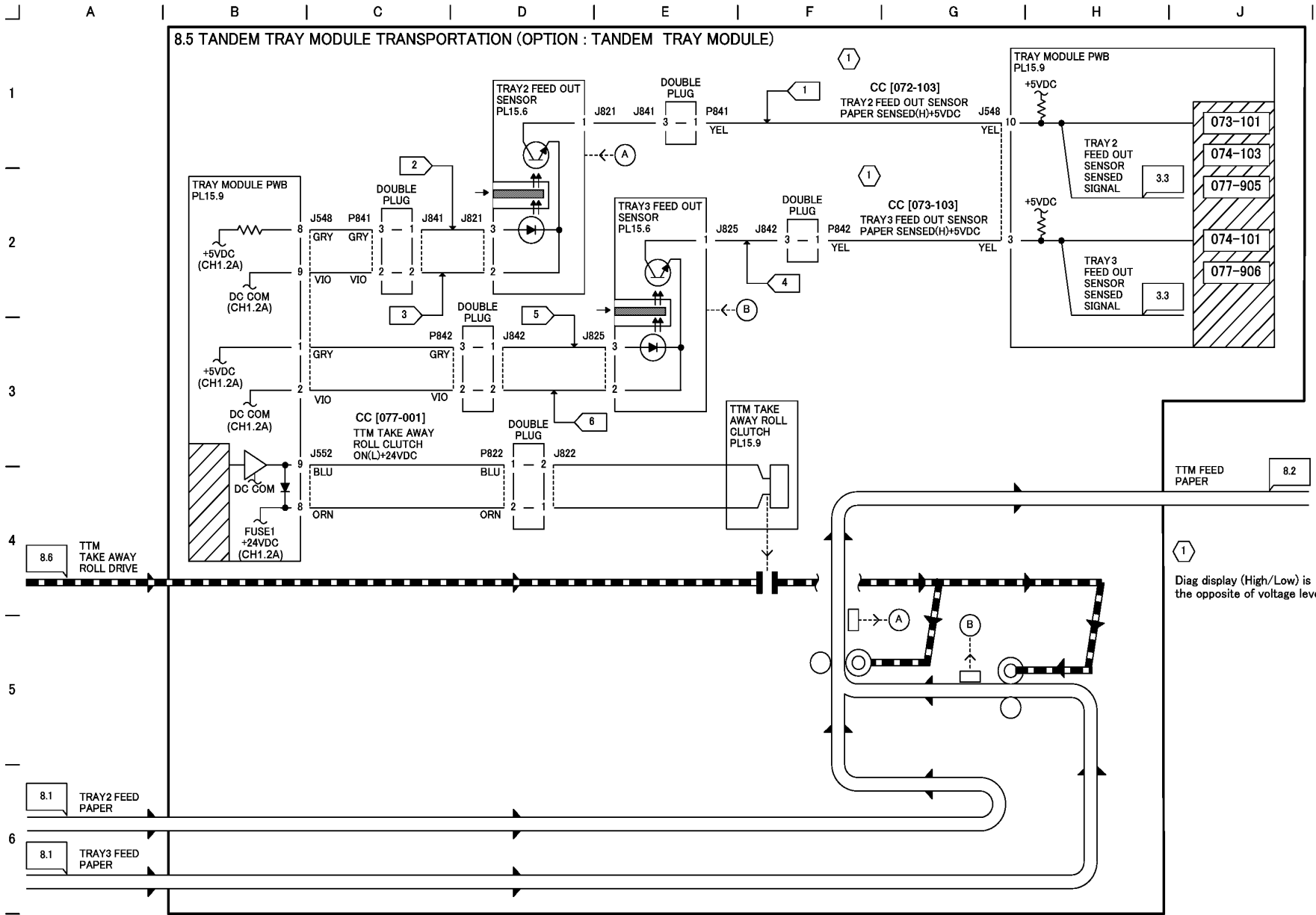


Figure 3 8.3 2TRAY MODULE TRANSPORTATION (OPTION:2TRAY MODULE) (t708783a-eln)



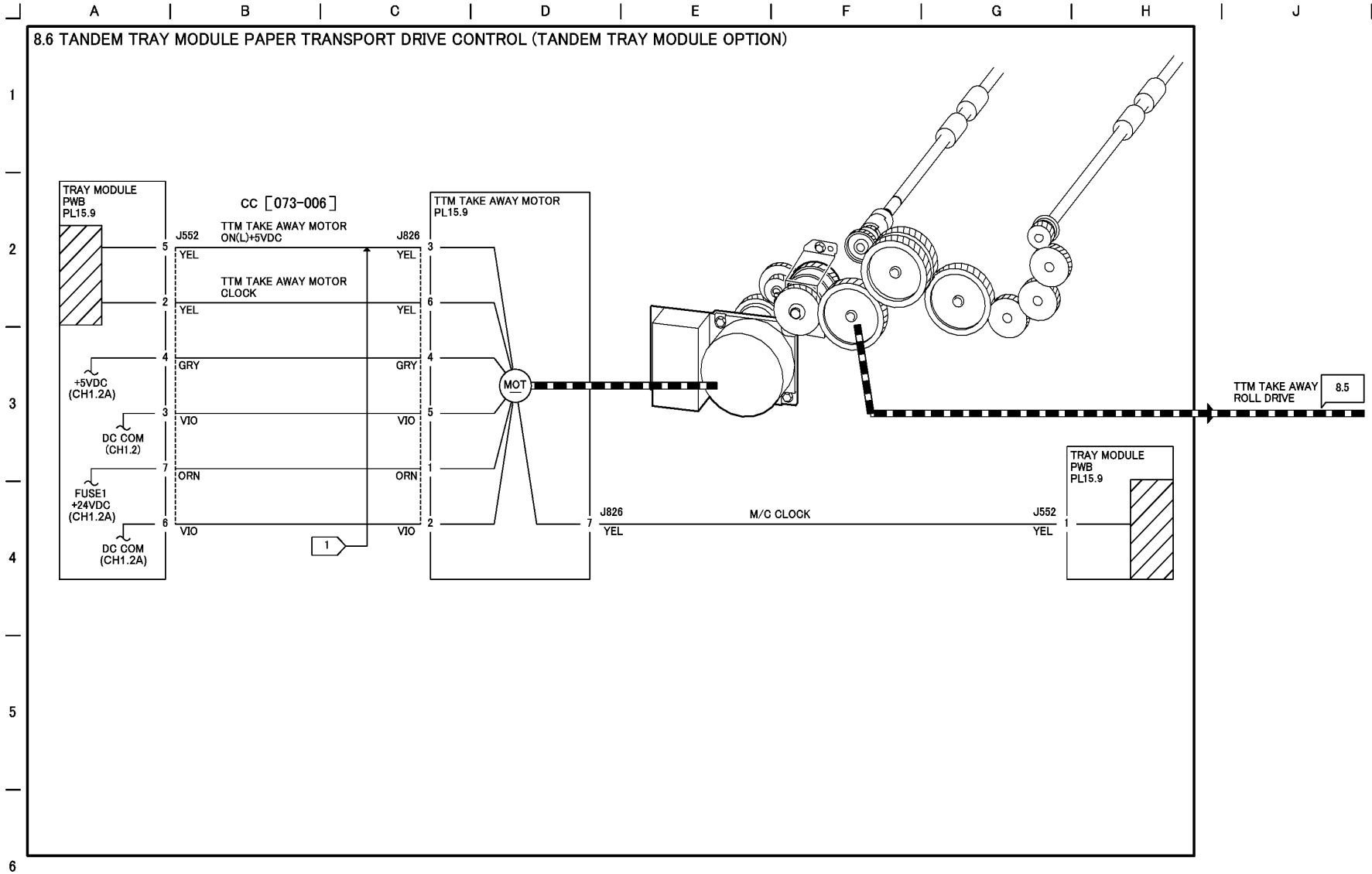
t708784a-eln

Figure 4 8.4 2TRAY MODULE PAPER TRANSPORT DRIVE CONTROL (2TRAY MODULE OPTION) (t708784a-eln)



t708785a-eln

Figure 5 8.5 TANDEM TRAY MODULE TRANSPORTATION (OPTION:TANDEM TRAY MODULE) (t708785a-eln)



t708786a-eIn

Figure 6 8.6 TANDEM TRAY MODULE PAPER TRANSPORT DRIVE CONTROL (OPTION:TANDEM TRAY MODULE) (t708786a-eIn)

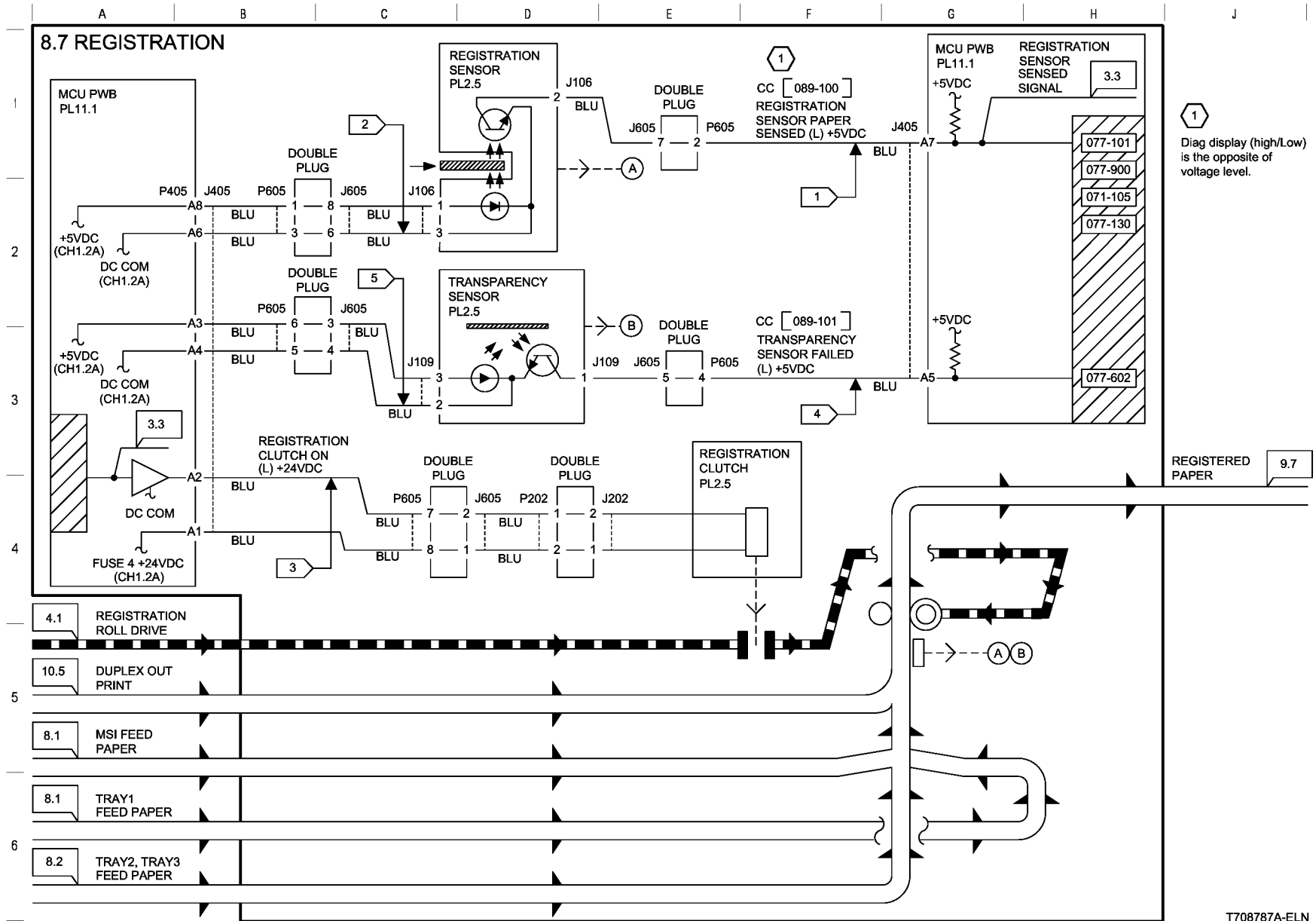
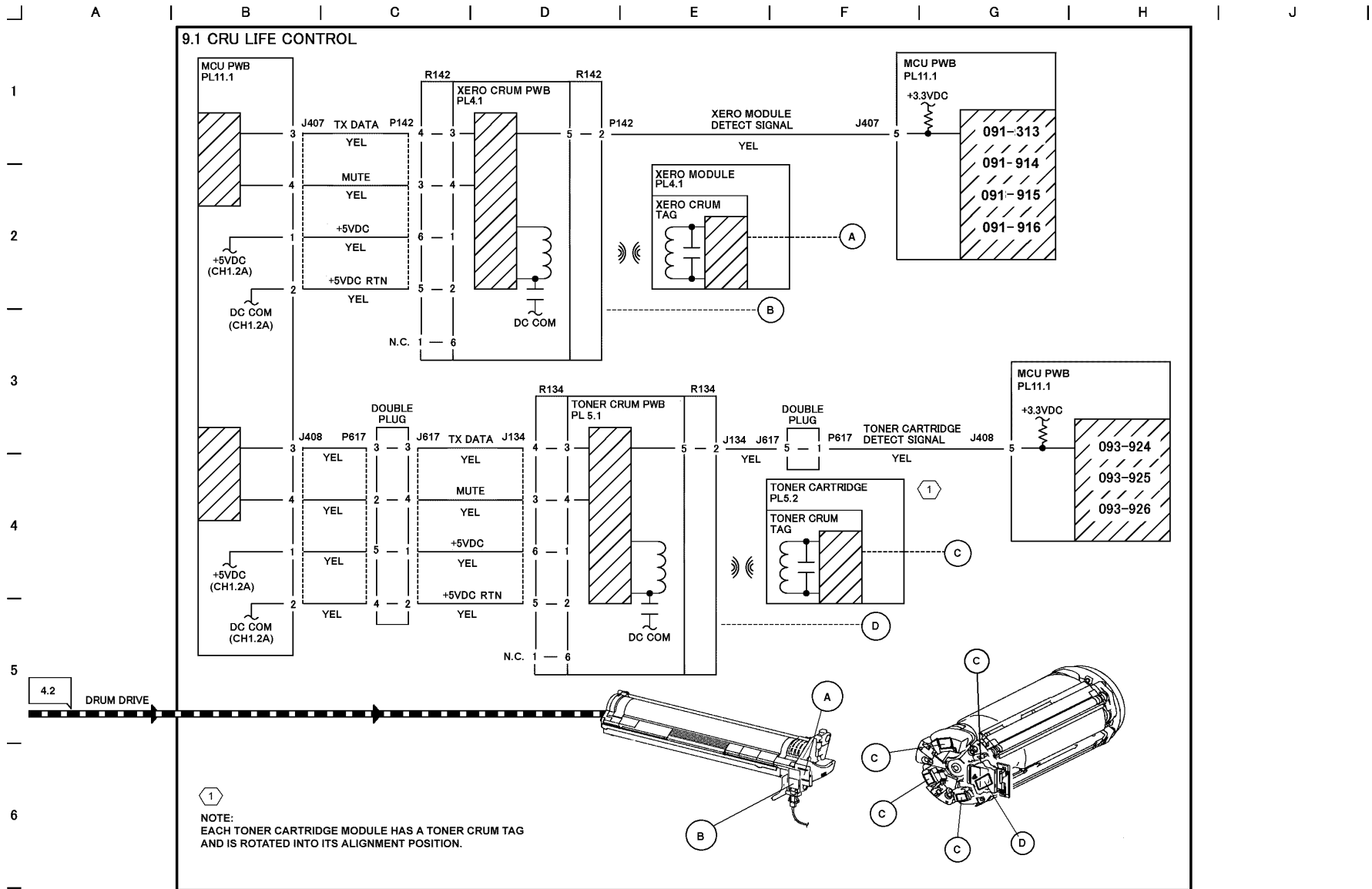


Figure 7 8.7 REGISTRATION (t708787a-eln)

Chain 9 Xerographics



t709791a-eln

Figure 1 9.1 CRU LIFE CONTROL (t709791a-eln)

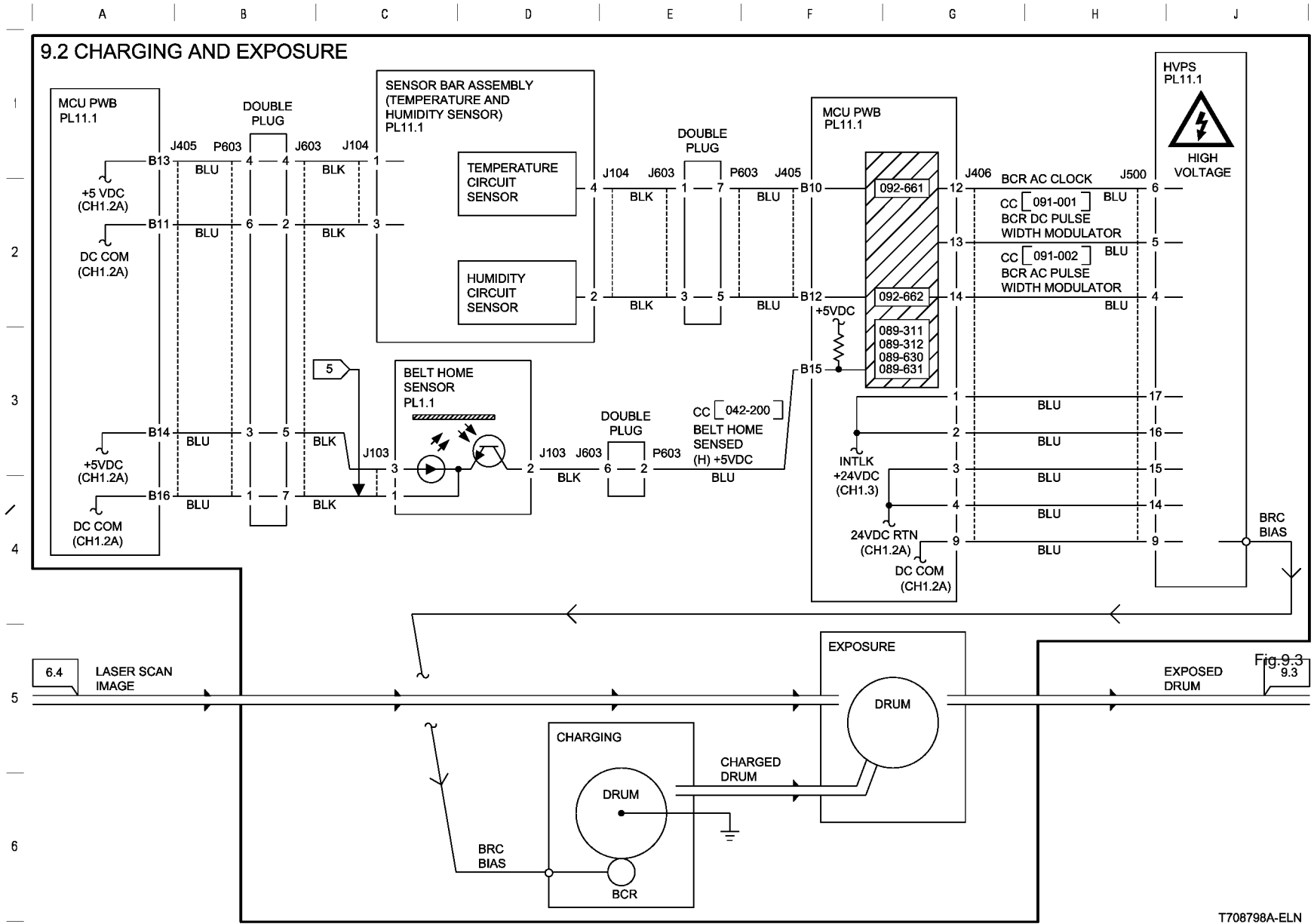
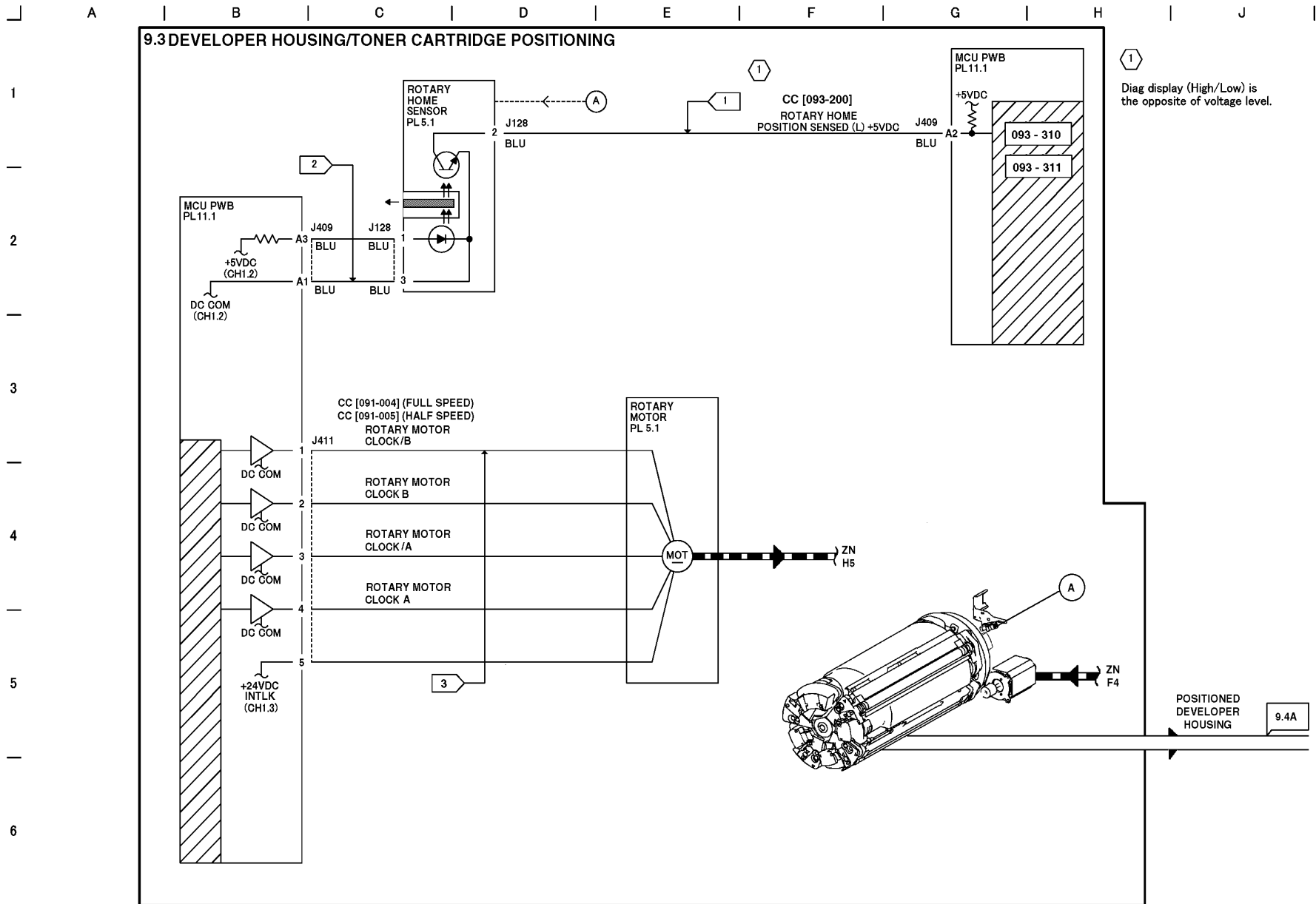


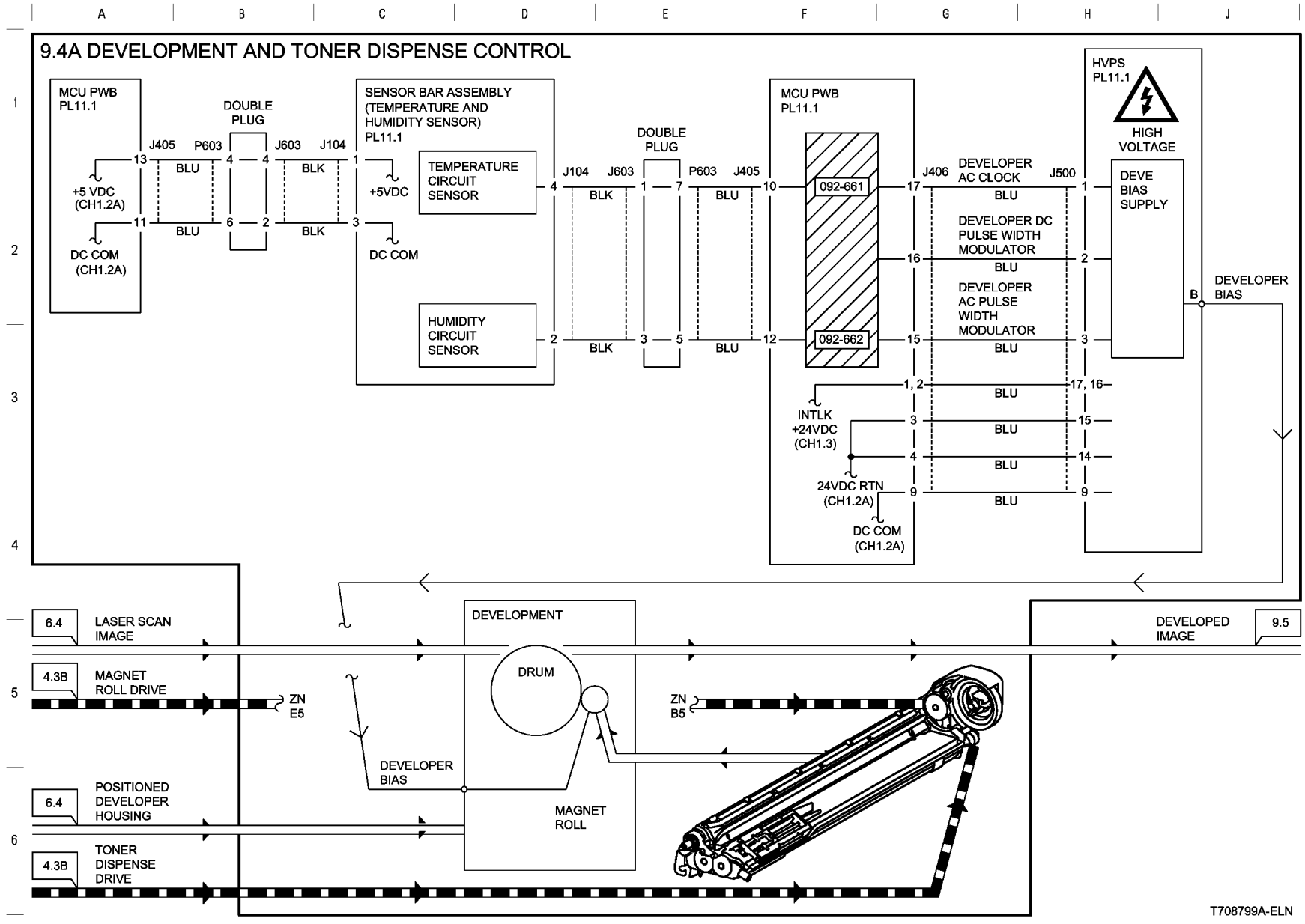
Figure 2 9.2 CHARGING AND EXPOSURE (t709798a-eln)

T708798A-ELN



t709795a-eln

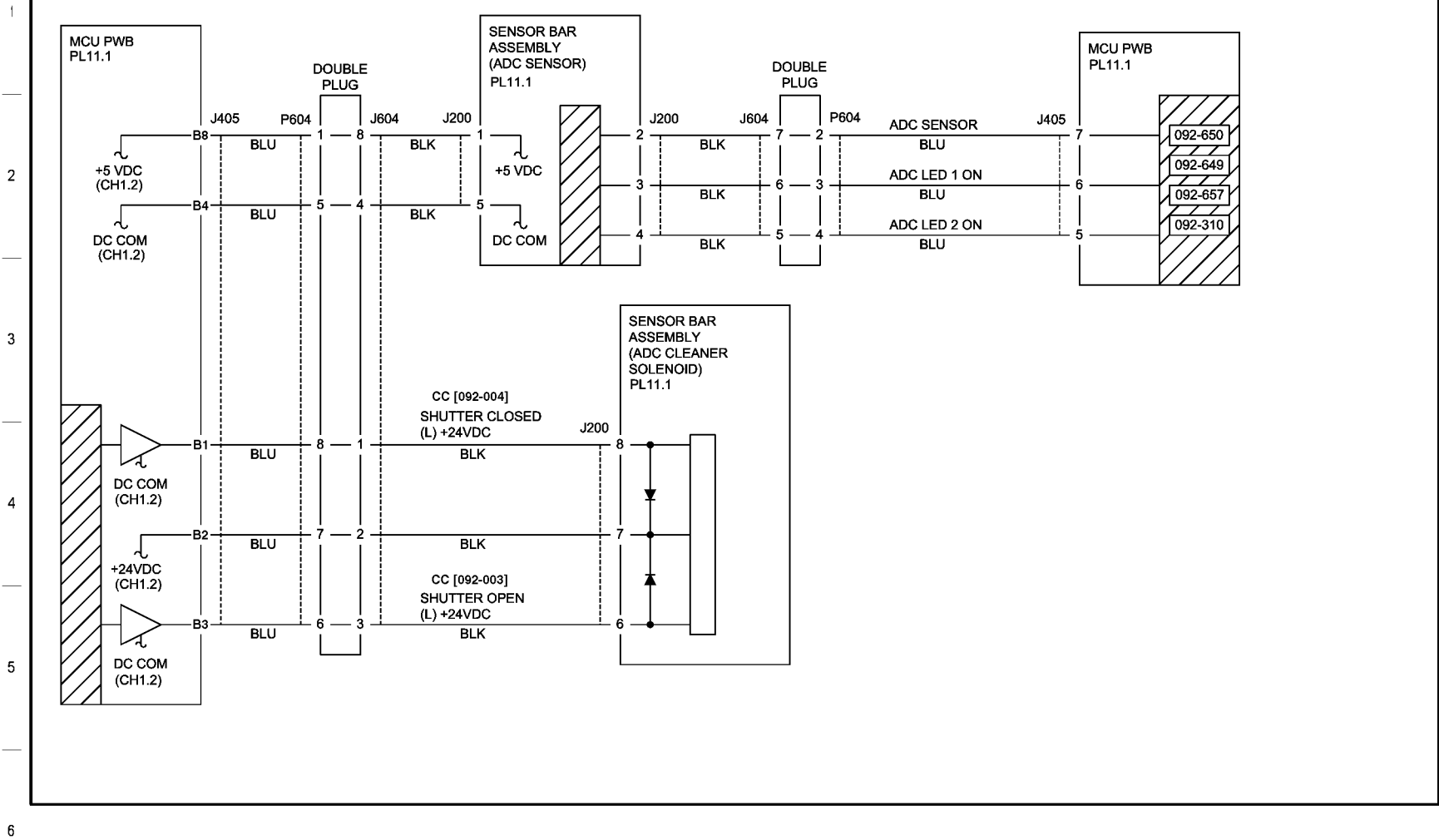
Figure 3 9.3 DEVELOPER HOUSING/TONER CARTRIDGE POSITIONING (t709795a-eln)



T708799A-ELN

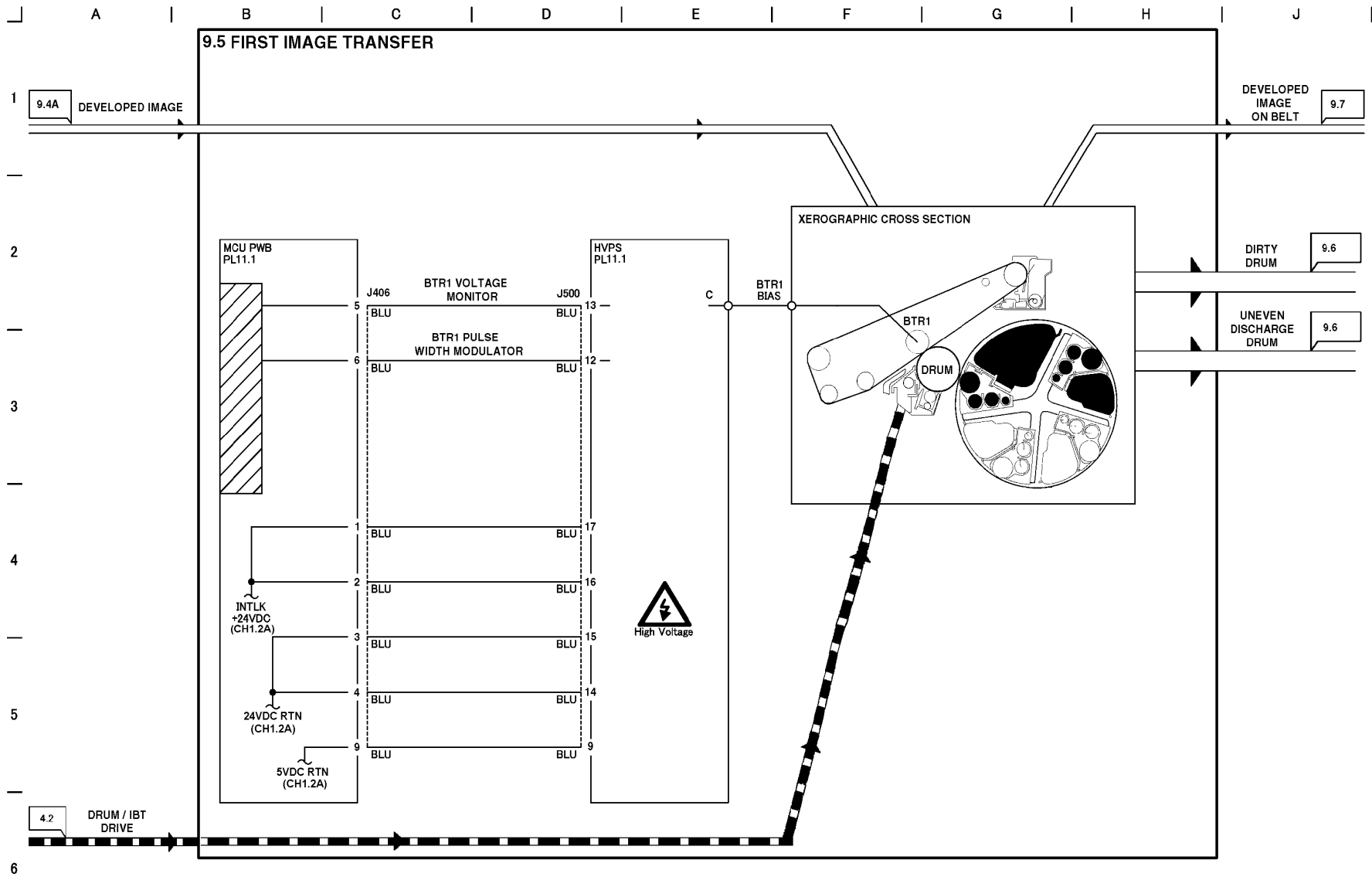
Figure 4 9.4A DEVELOPMENT AND TONER DISPENSE CONTROL (t709799a-eln)

9.4B DEVELOPMENT AND TONER DISPENSE CONTROL



T708793A-ELN

Figure 5 9.4B DEVELOPMENT AND TONER DISPENSE CONTROL (T709793a-eln)



t709794a-eln

Figure 6 9.5 FIRST IMAGE TRANSFER (t709794a-eln)

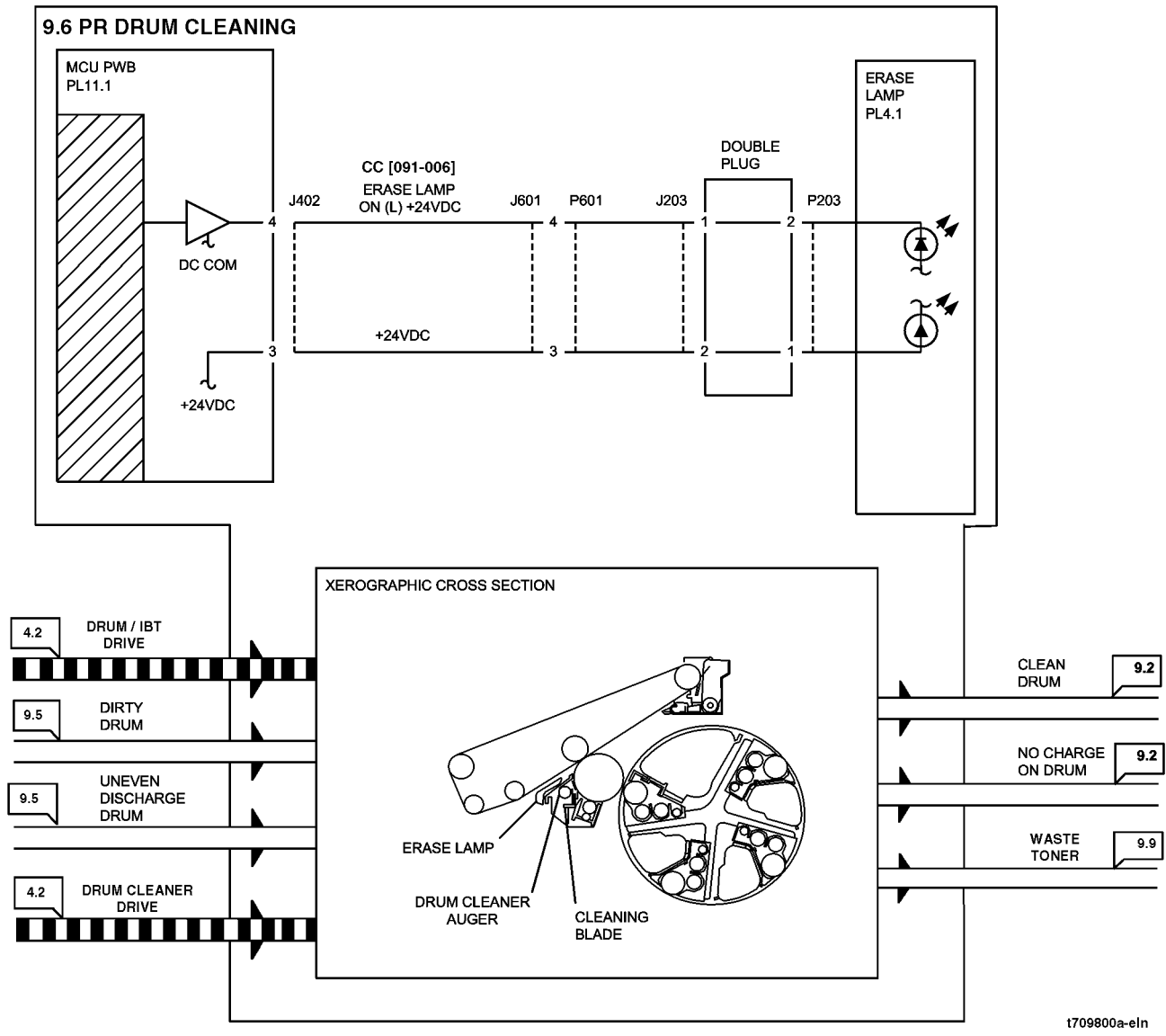
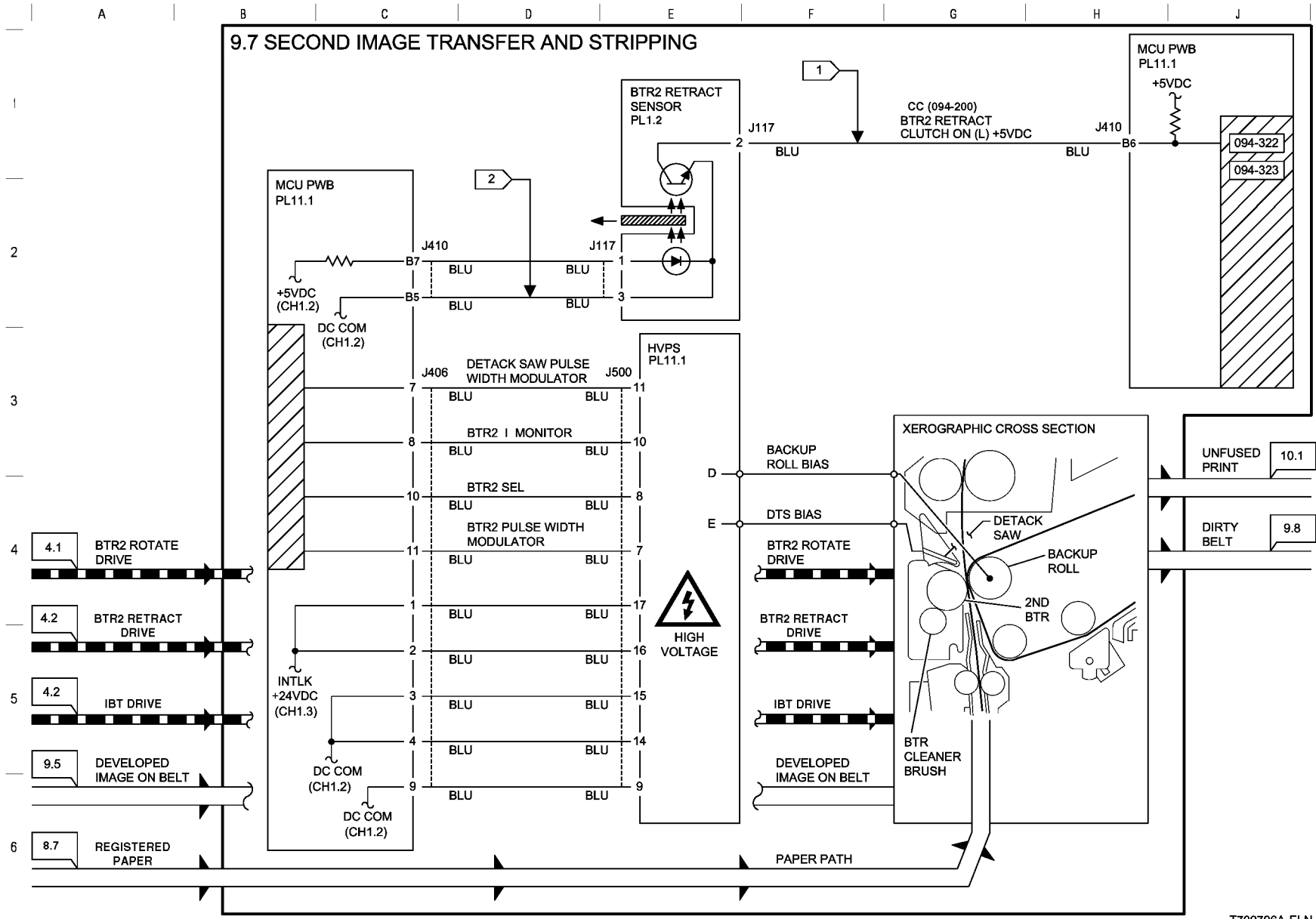
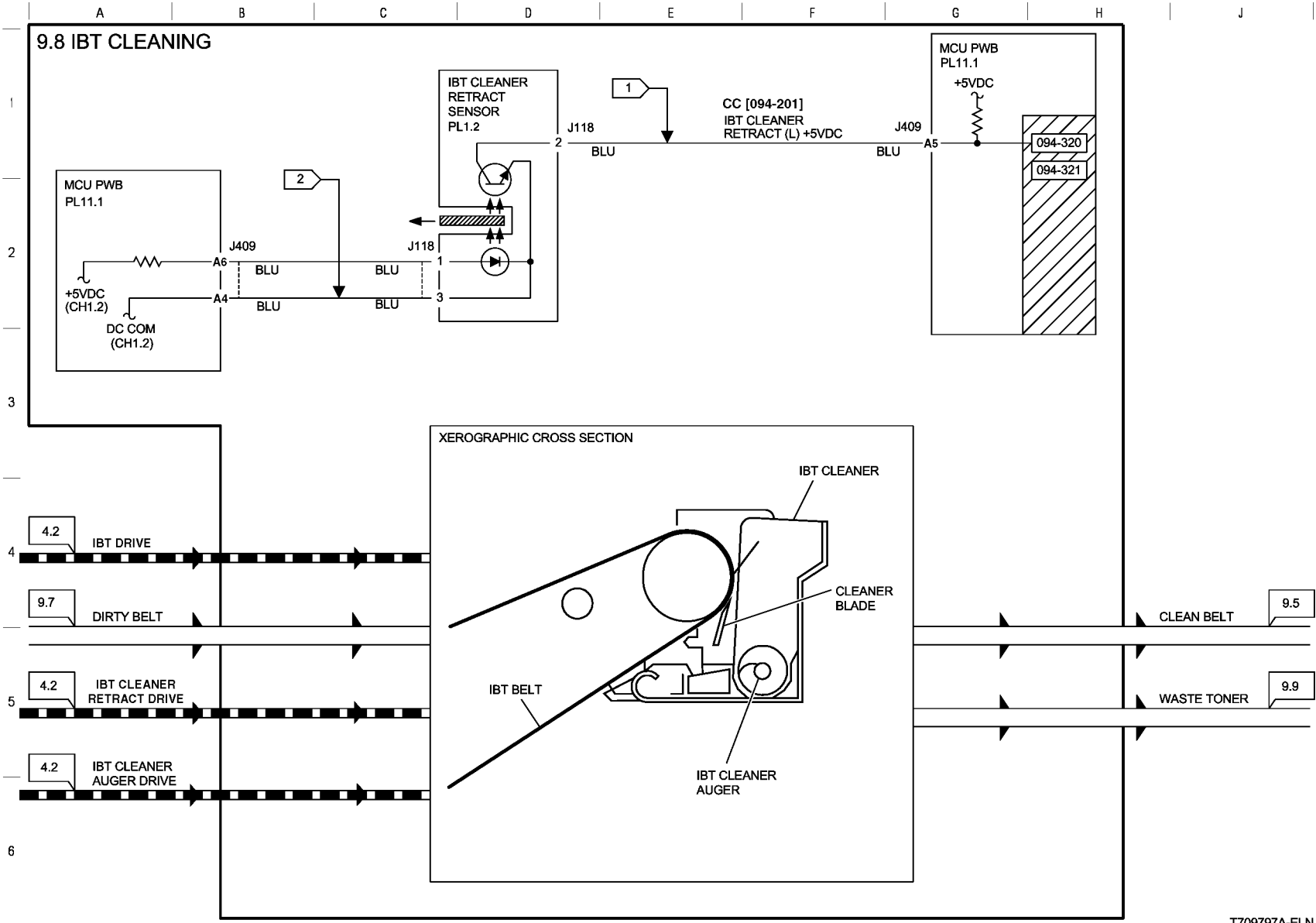


Figure 7 9.6 PR DRUM CLEANING (t709800a-eln)



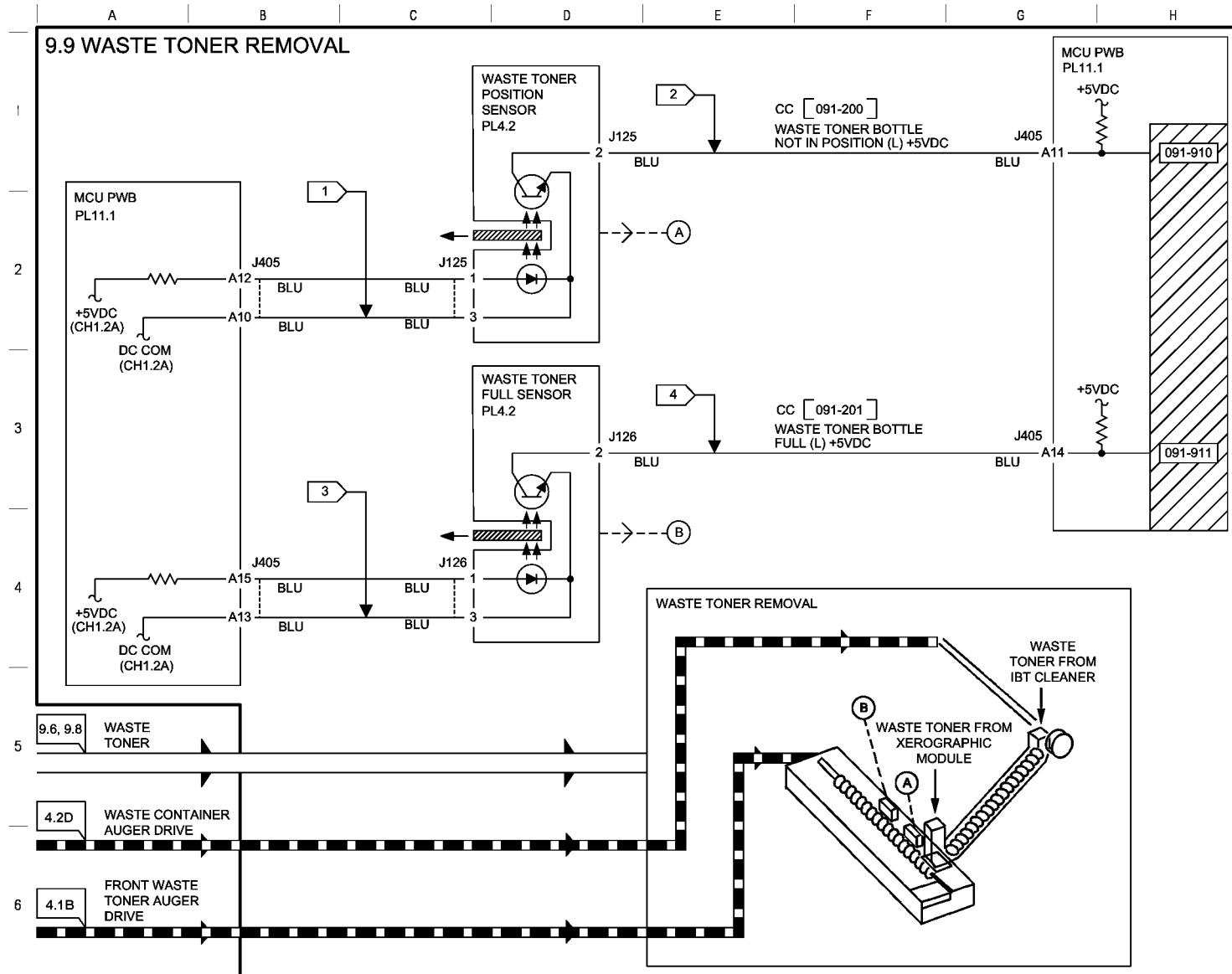
T709796A-ELN

Figure 8 9.7 SECOND IMAGE TRANSFER AND STRIPPING (t709796a-eln)



T709797A-ELN

Figure 9 9.8 IBT CLEANING (t709797a-eln)



T709801A-ELN

Figure 10 9.9 WASTE TONER REMOVAL (t709801a-eln)

Chain 10 Copy Transportation and Fusing

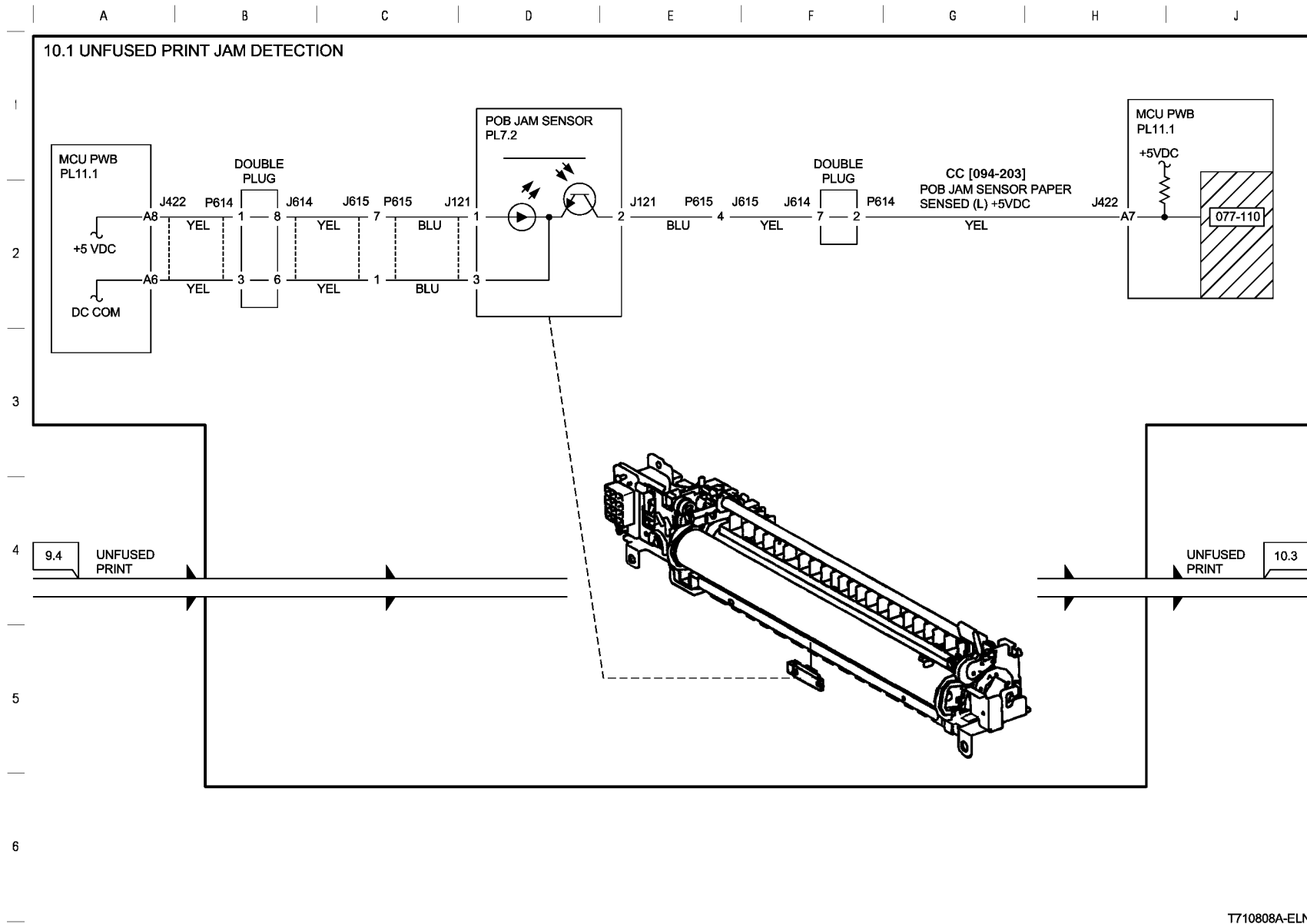


Figure 1 10.1 UNFUSED PRINT (t710808a-eln)

T710808A-ELN

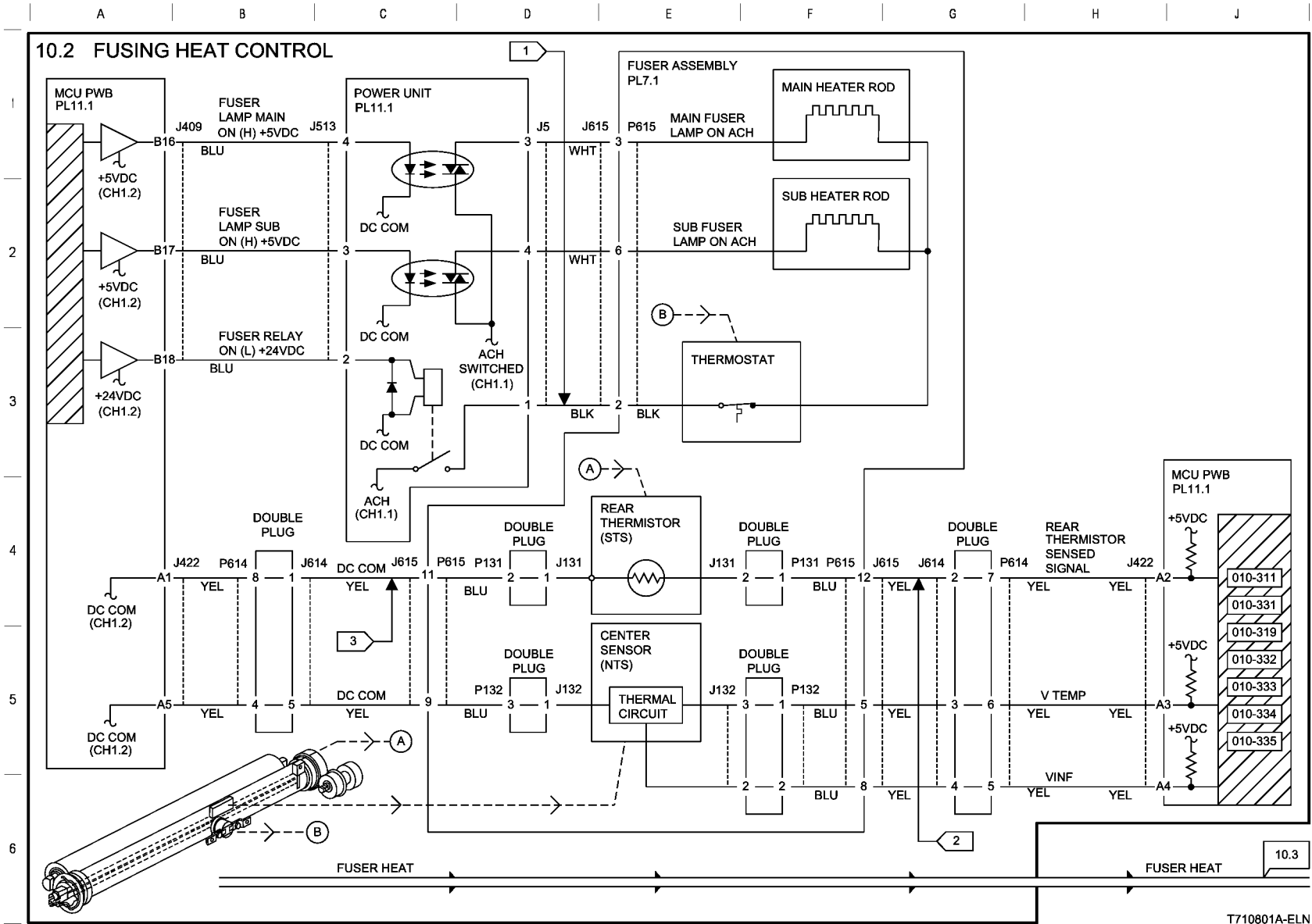
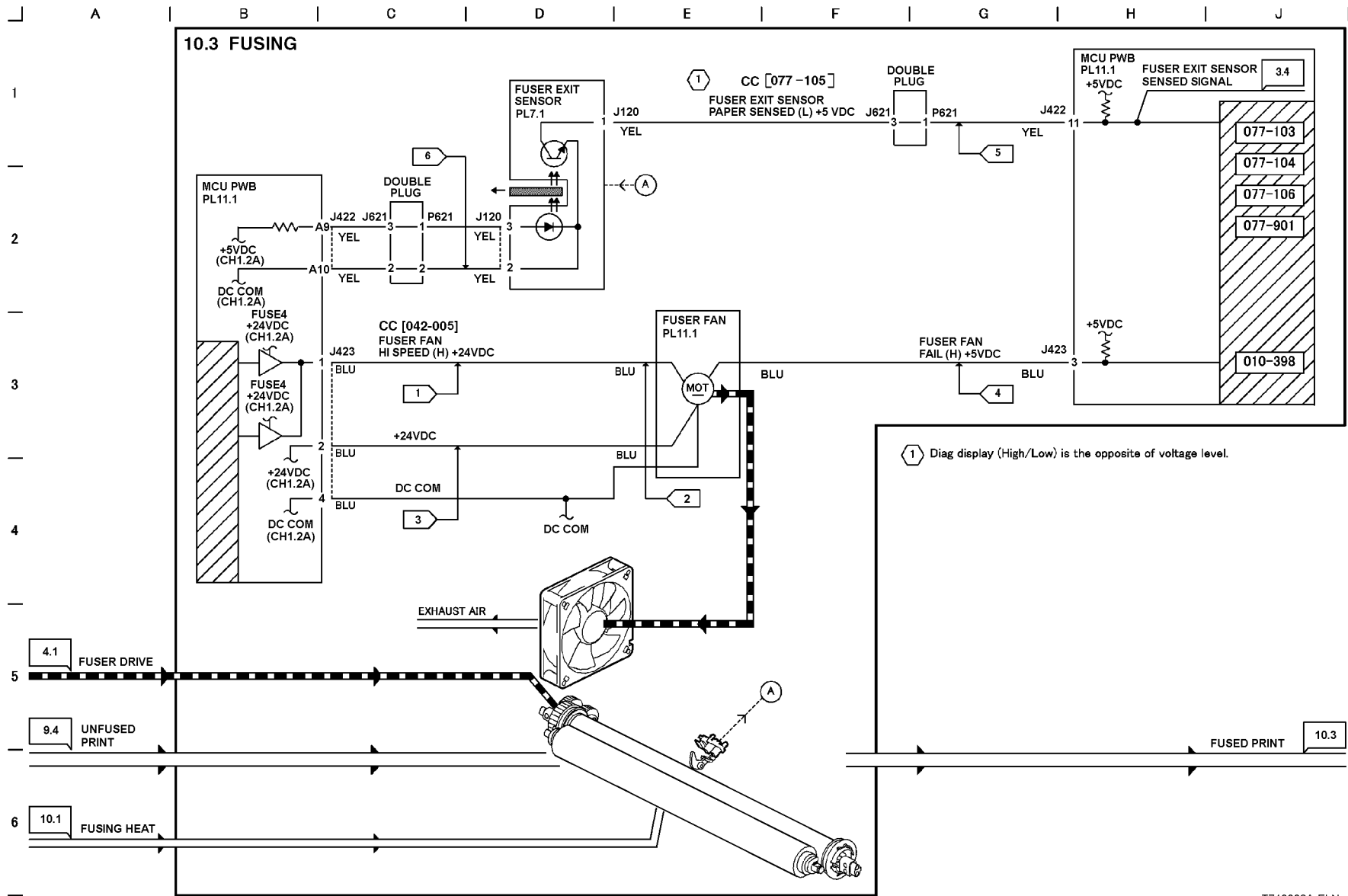
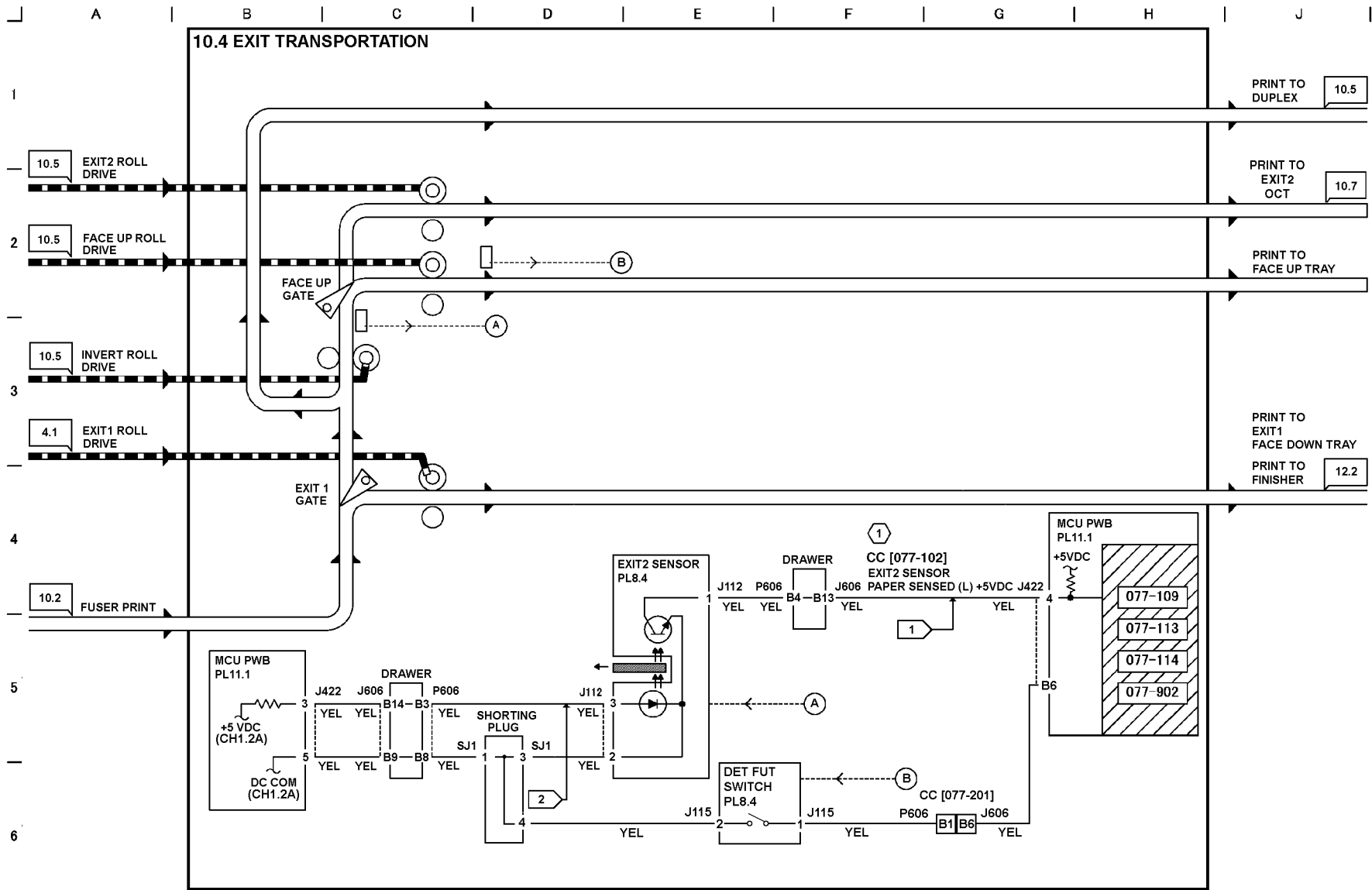


Figure 2 10.2 FUSING HEAT CONTROL (t710801a-eln)



T710802A-ELN

Figure 3 10.3 FUSING (t710802a-eln)

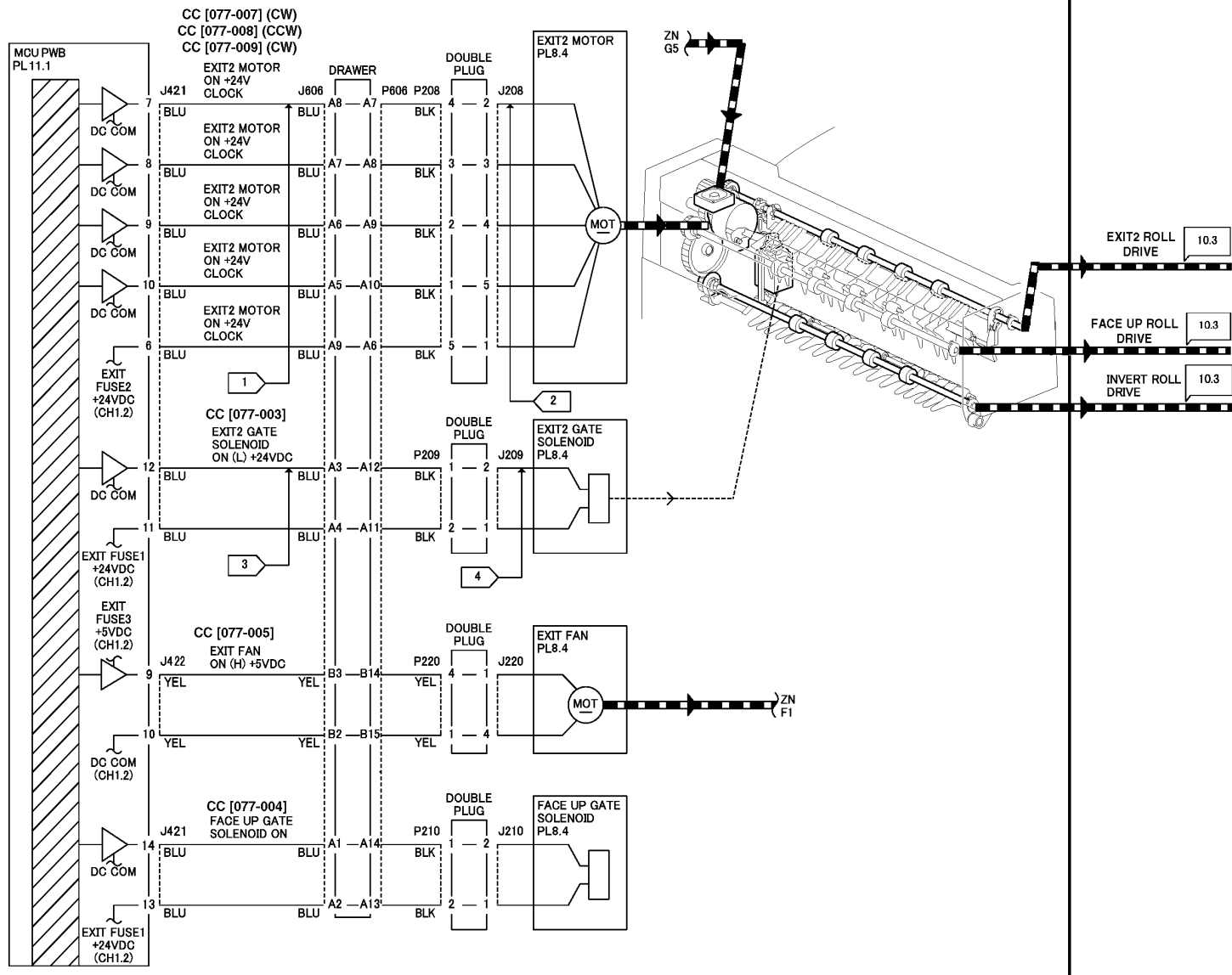


① Diag display (High/Low) is the opposite of voltage level.

T710803A-ELN

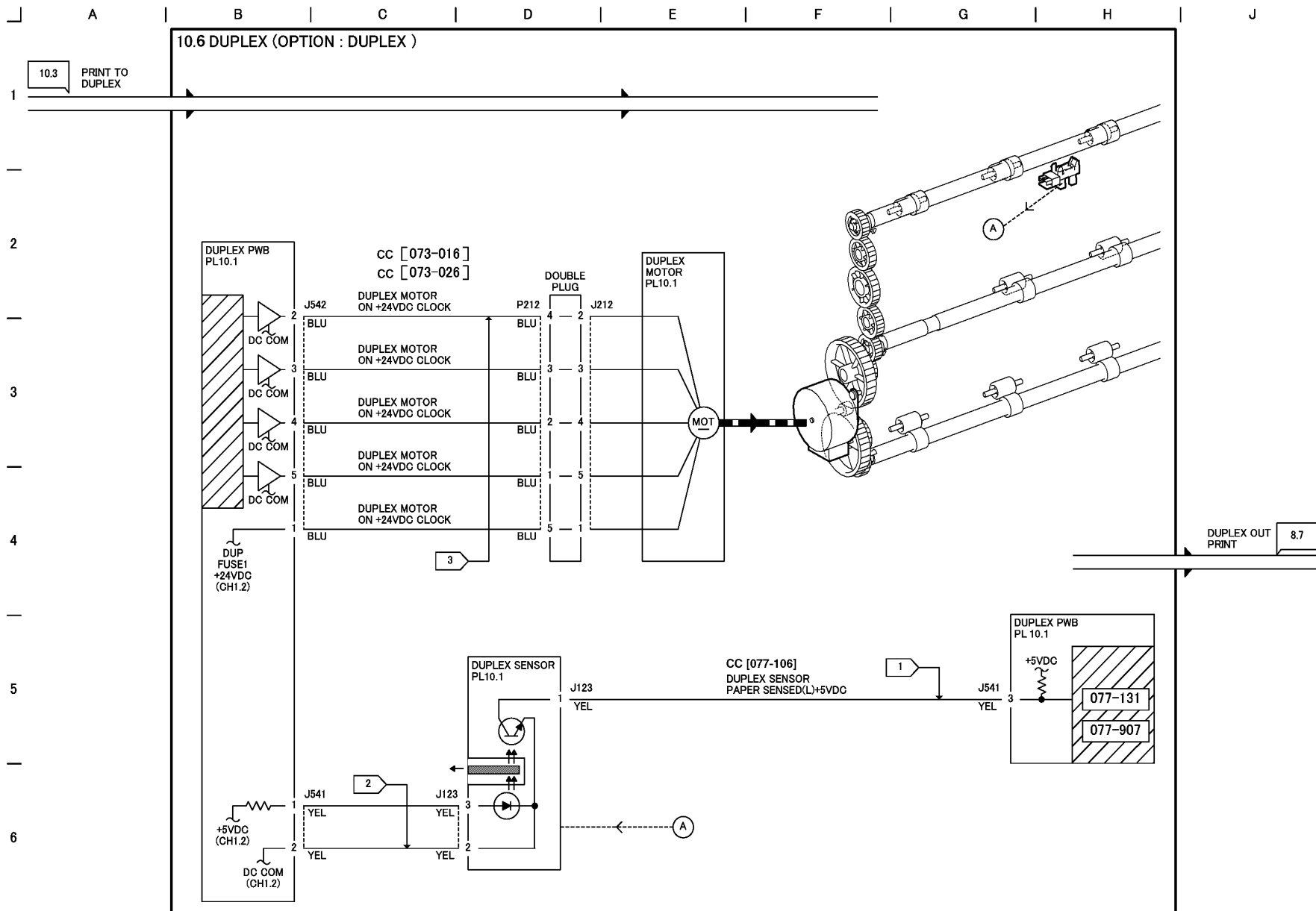
Figure 4 10.4 EXIT TRANSPORTATION (t710803a-eln)

10.5 EXIT TRANSPORTATION MECHANISM



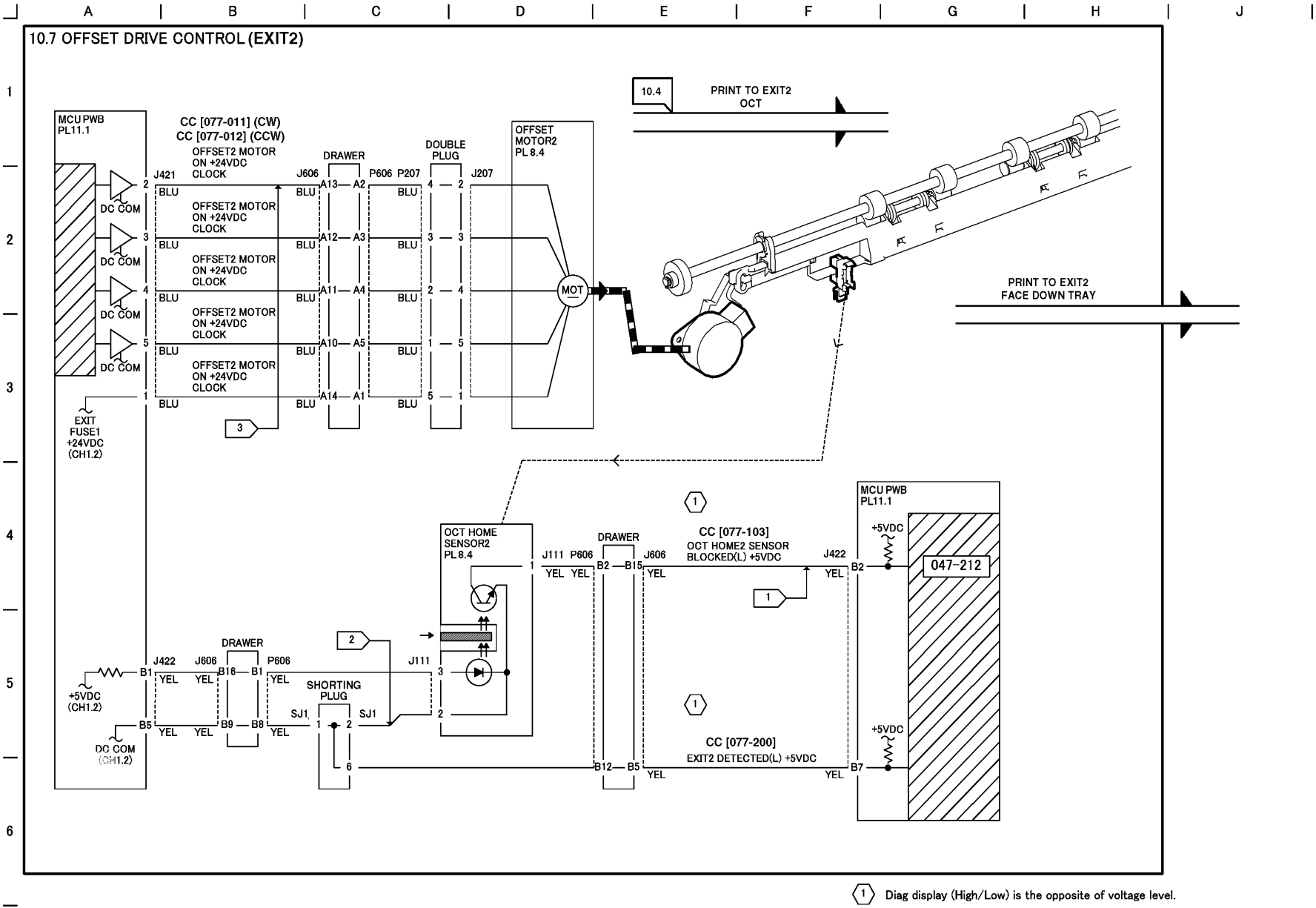
t710804a-eln

Figure 5 10.5EXIT TRANSPORTATION MECHANISM (t710804a-eln)



t710805a-eln

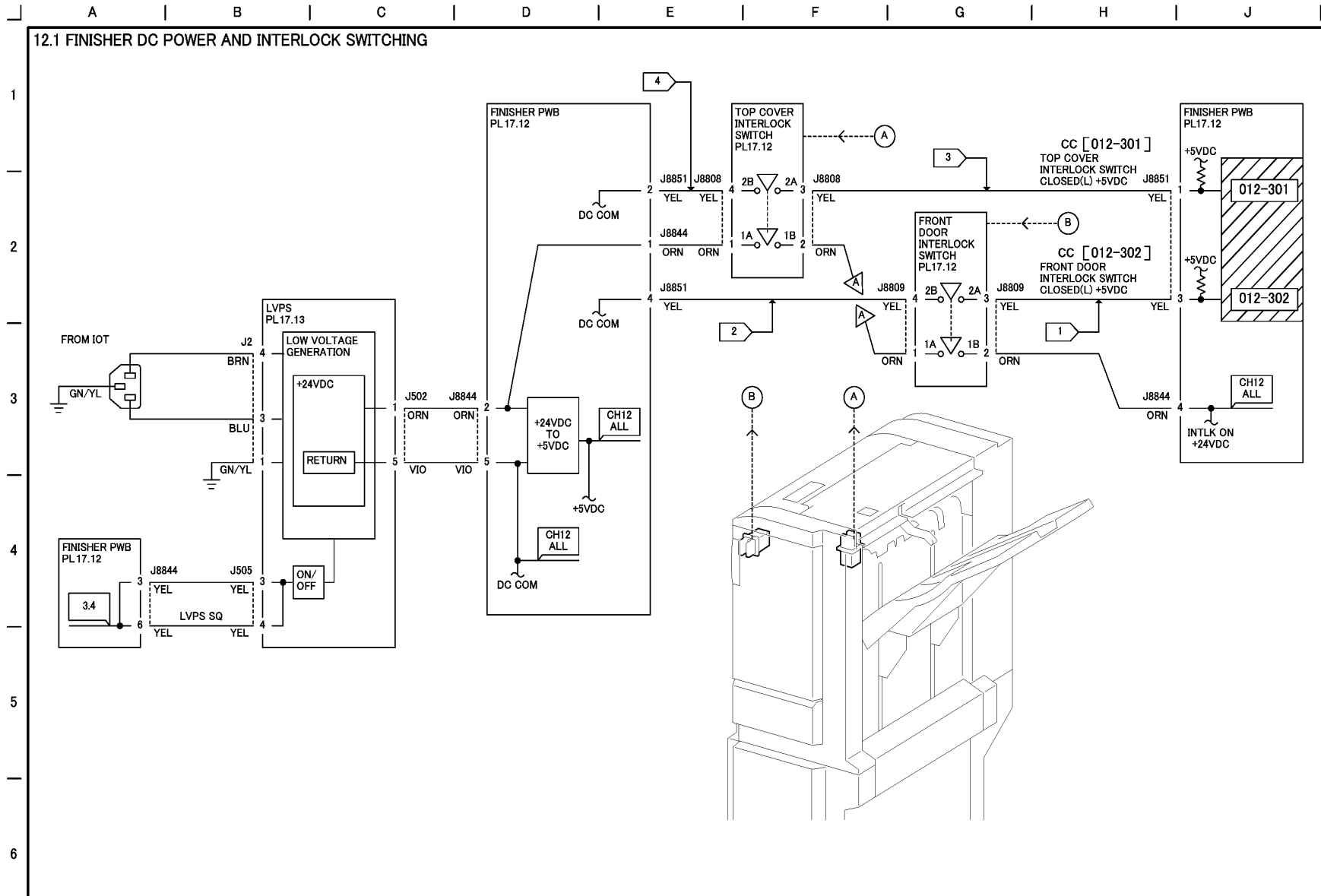
Figure 6 10.6 DUPLEX (OPTION:DUPLEX) (t710805a-eln)



t710807a-eln

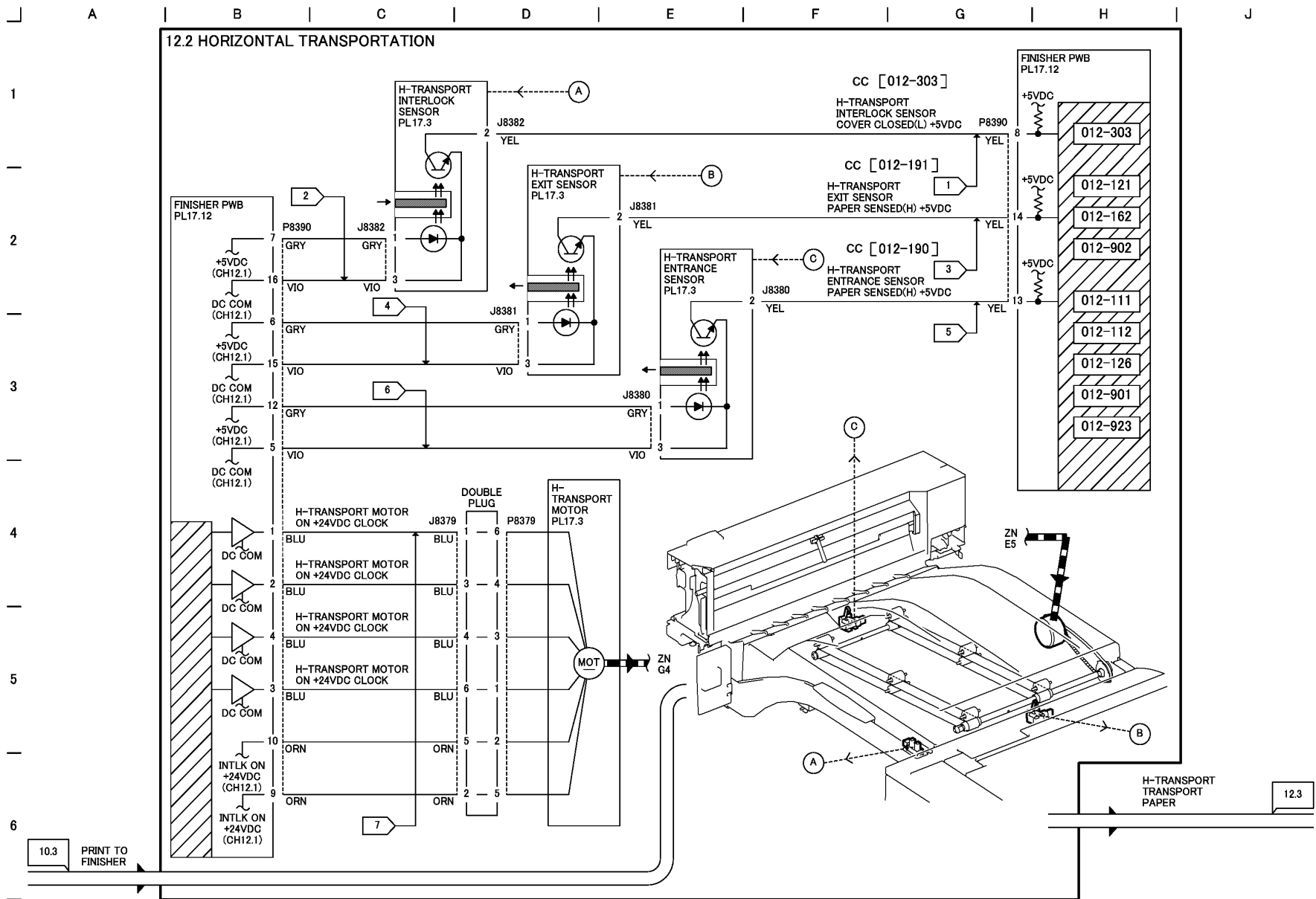
Figure 7 10.7 OFFSET CONTROL (EXIT2) (t710807a-eln)

Chain 12 Finishing



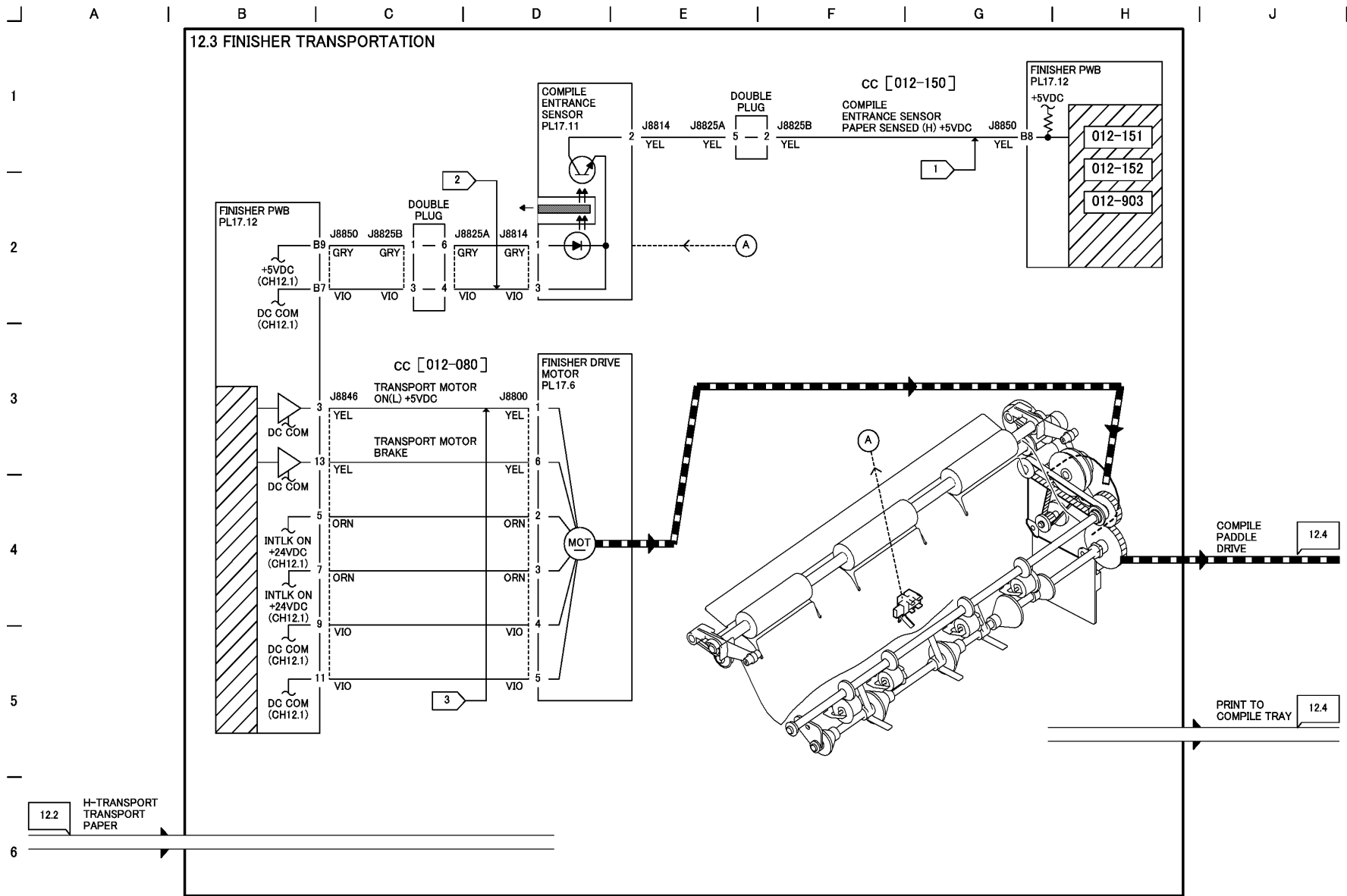
t712811a-eln

Figure 1 12.1 FINISHER DC POWER AND INTERLOCK SWITCHING (t712811a-eln)



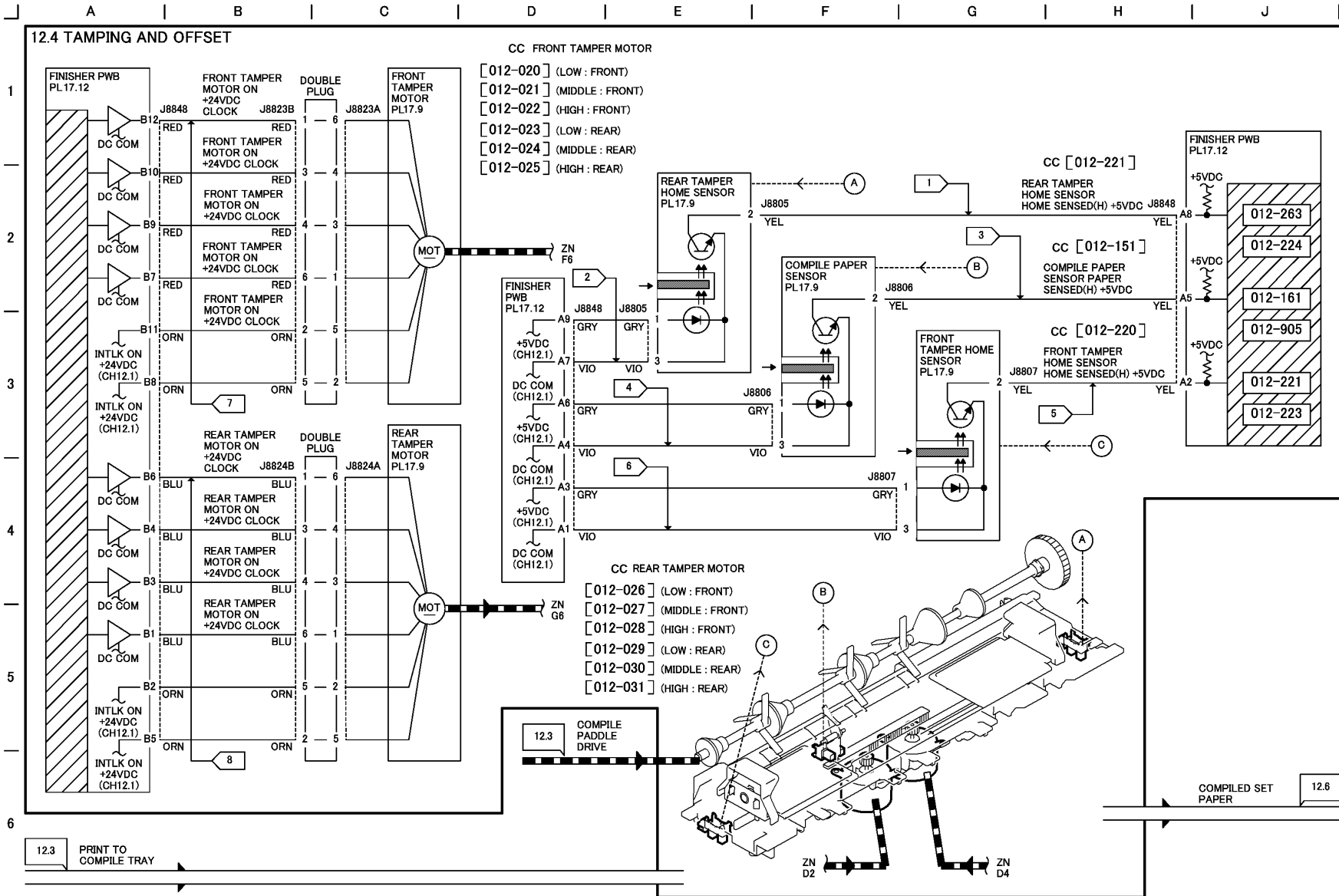
t712812a-eln

Figure 2 12.2 HORIZONTAL TRANSPORTATION (t712812a-eln)



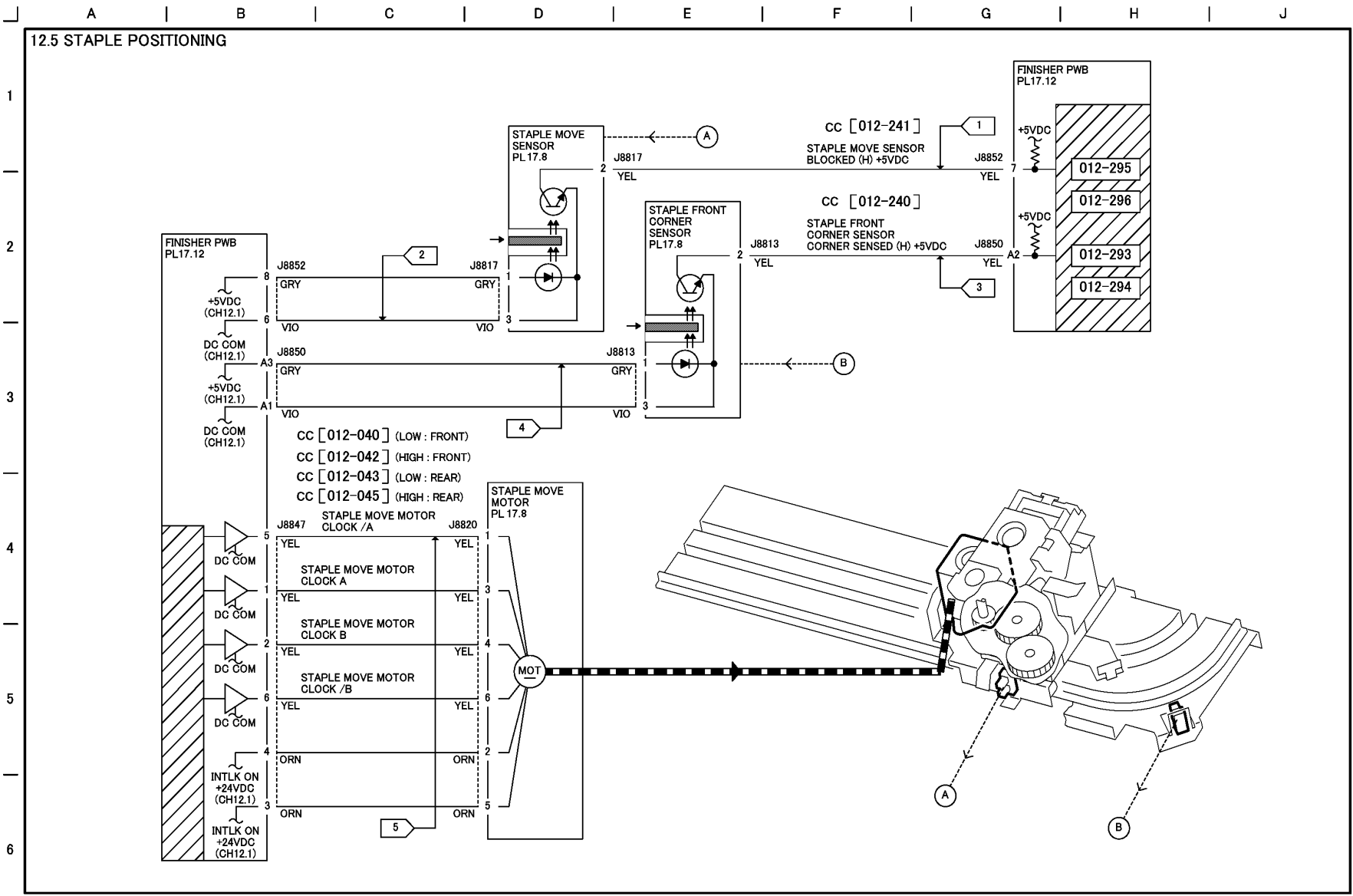
t712813a-eln

Figure 3 12.3 FINISHER TRANSPORTATION (t712813a-eln)

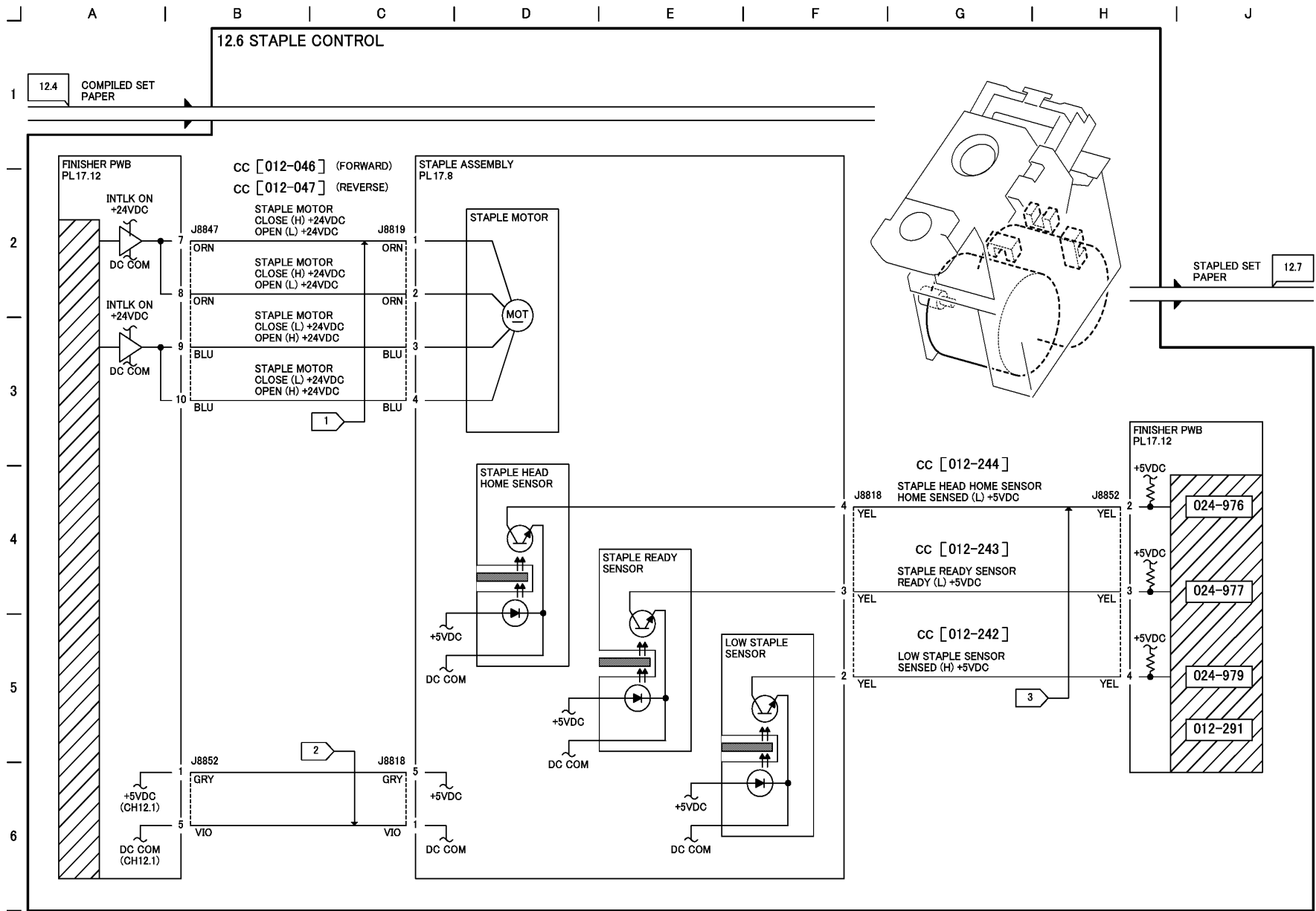


t712814a-eln

Figure 4 12.4 TAMPING AND OFFSET (t712814a-eln)

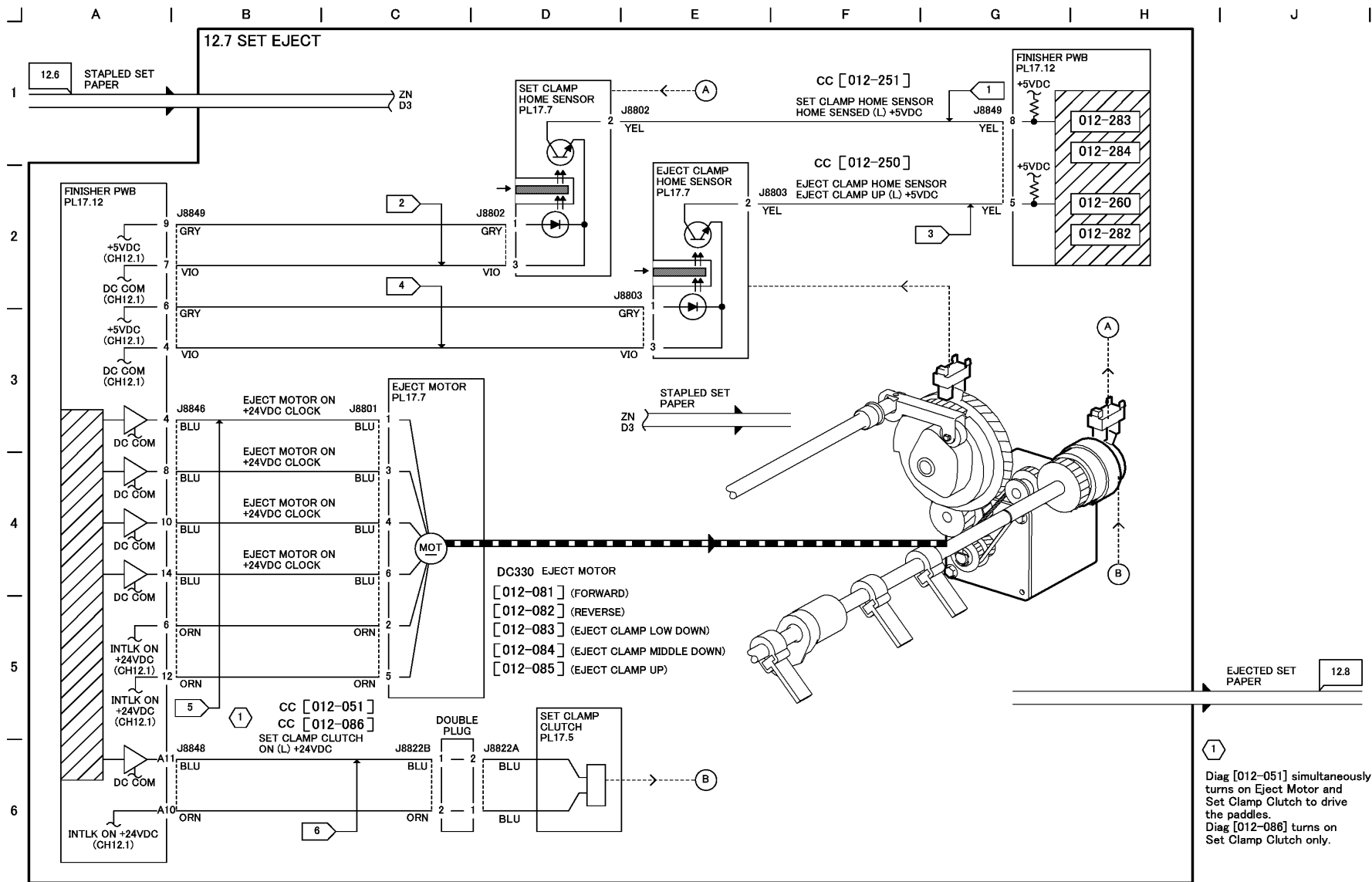


t712815a-eln



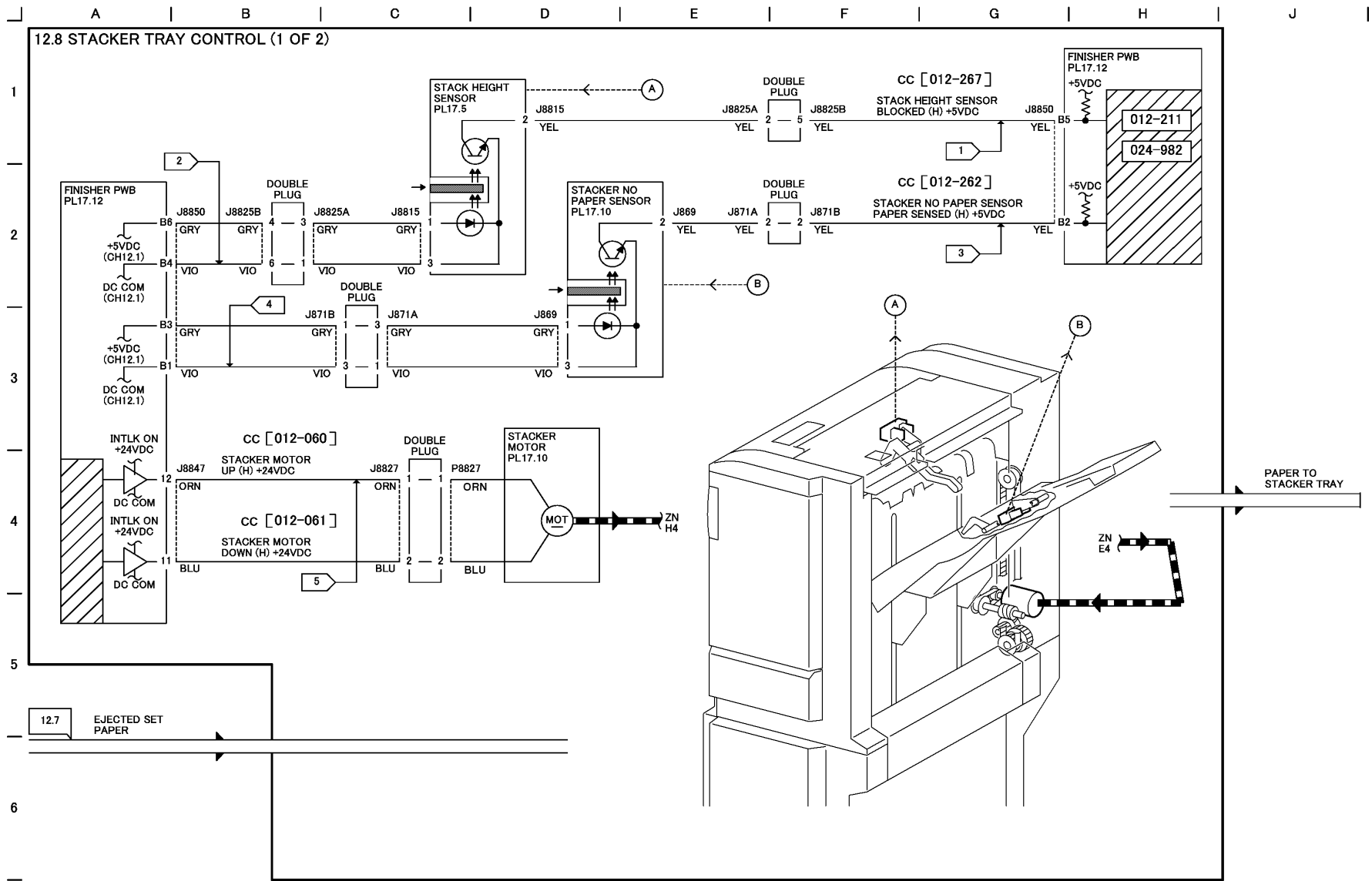
t712816a-eln

Figure 6 12.6 STAPLE CONTROL (t712816a-eln)



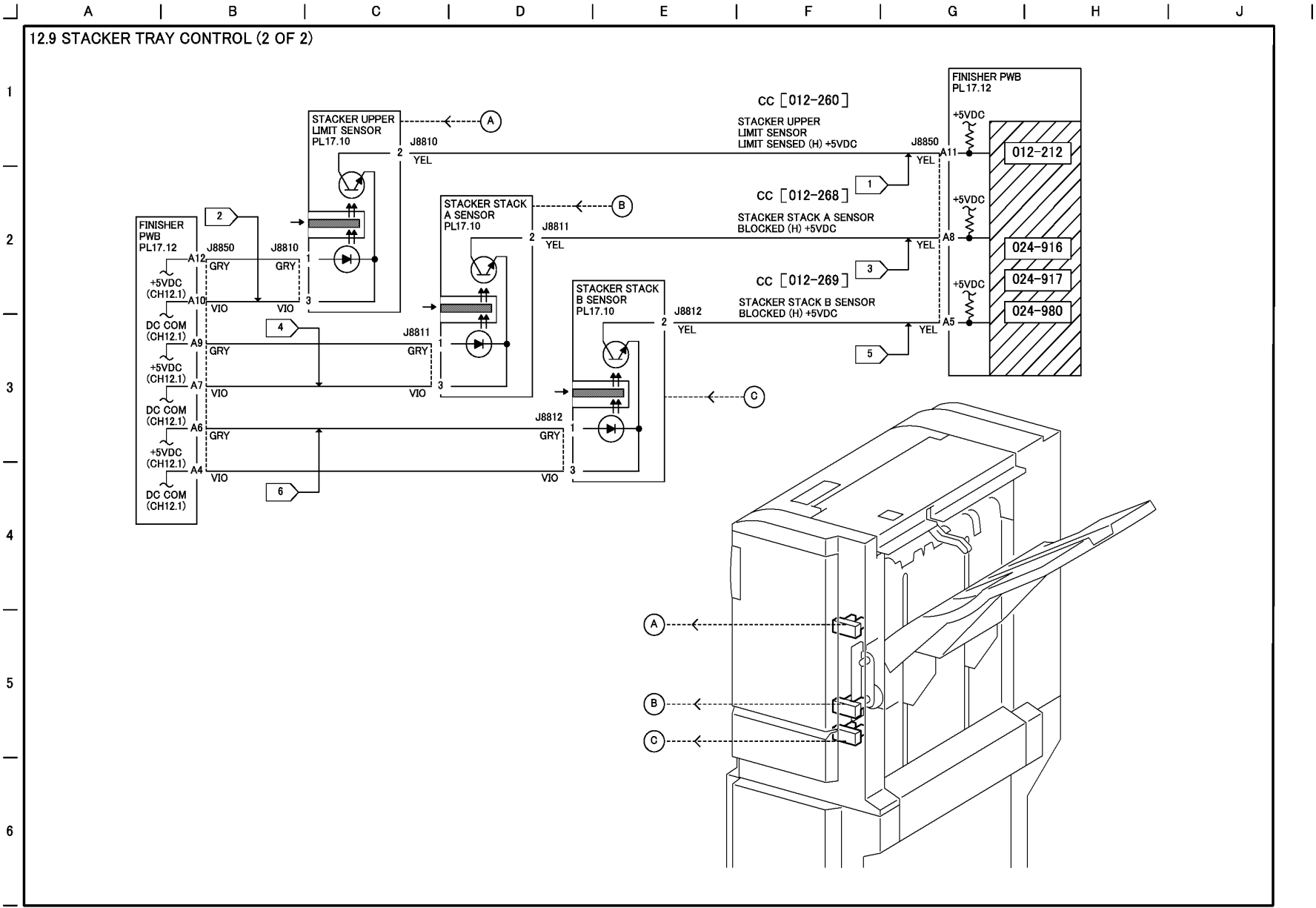
t712817a-eln

Figure 7 12.7 SET EJECT (t712817a-eln)



t712818a-eln

Figure 8 12.8 STACKER TRAY CONTROL (1 OF 2) (t712818a-eln)



t712819a-eln

Figure 9 12.9 STACKER TRAY CONTROL (2 OF 2) (t712819a-eln)

Chain 13 Nohad

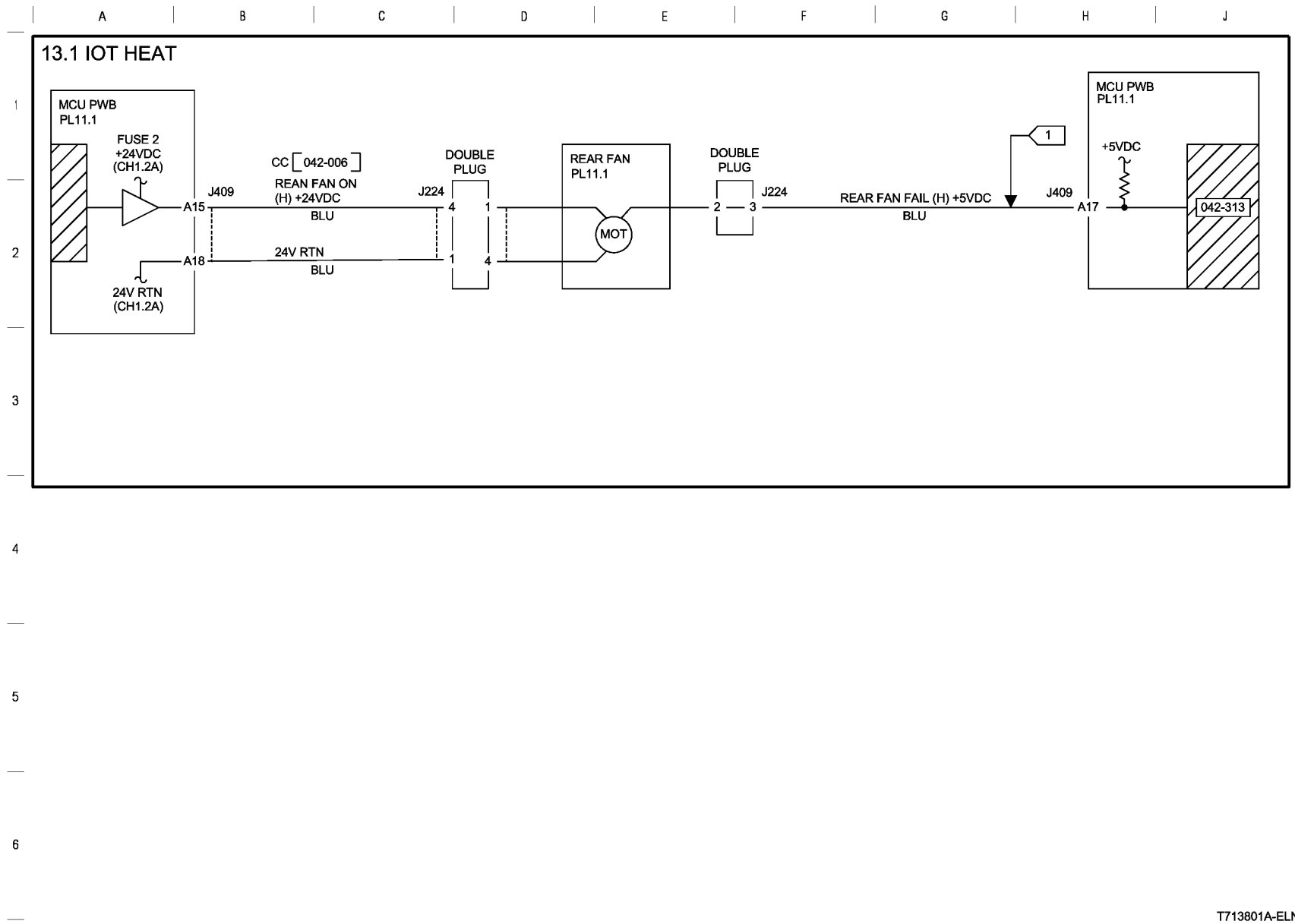
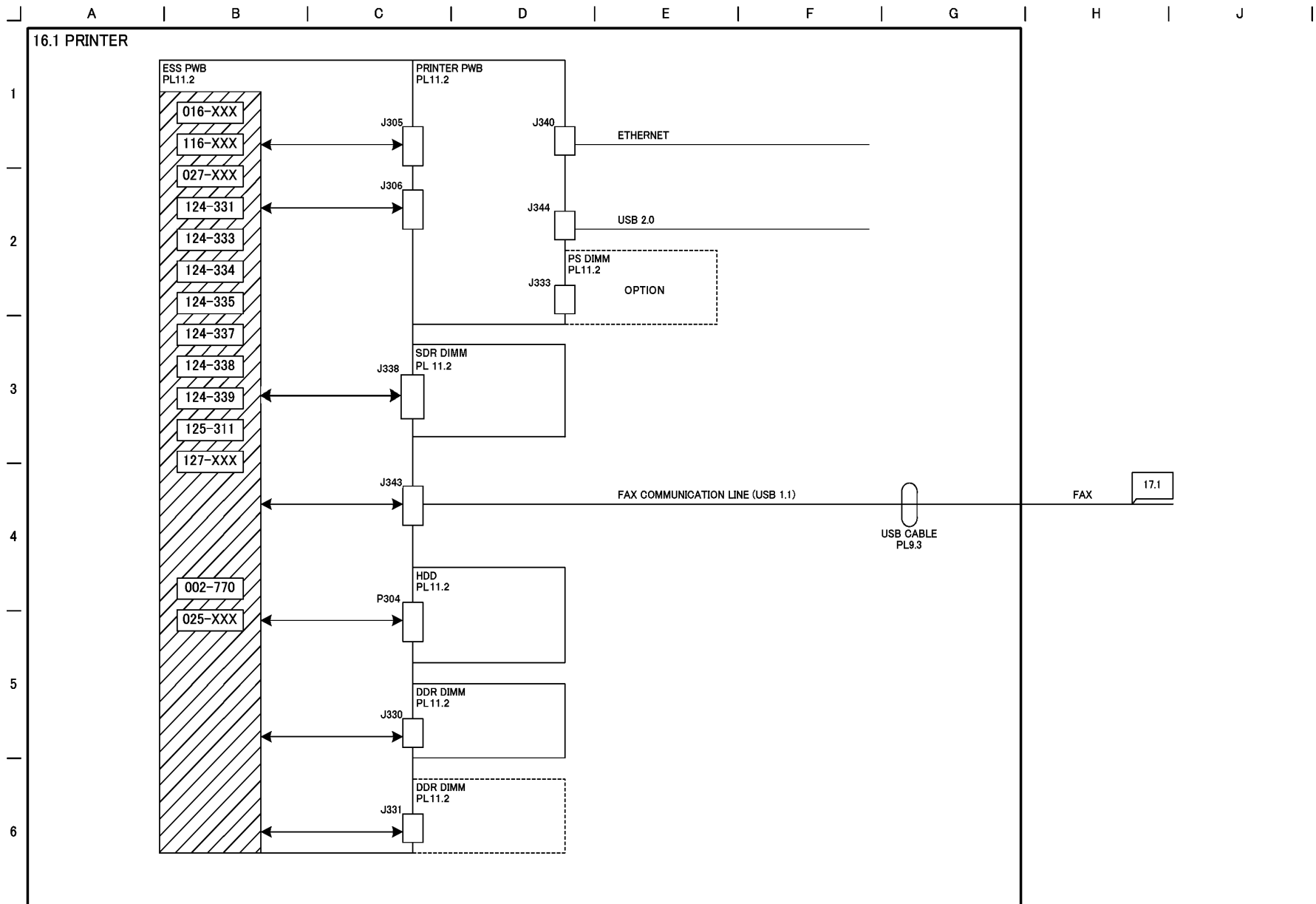


Figure 1 13.1 Nohad (t713801a-eln)

T713801A-ELN

Chain 16 Printer



t716821a-eln

Figure 1 16.1 PRINTER (t716821a-eln)

Chain 17 FAX

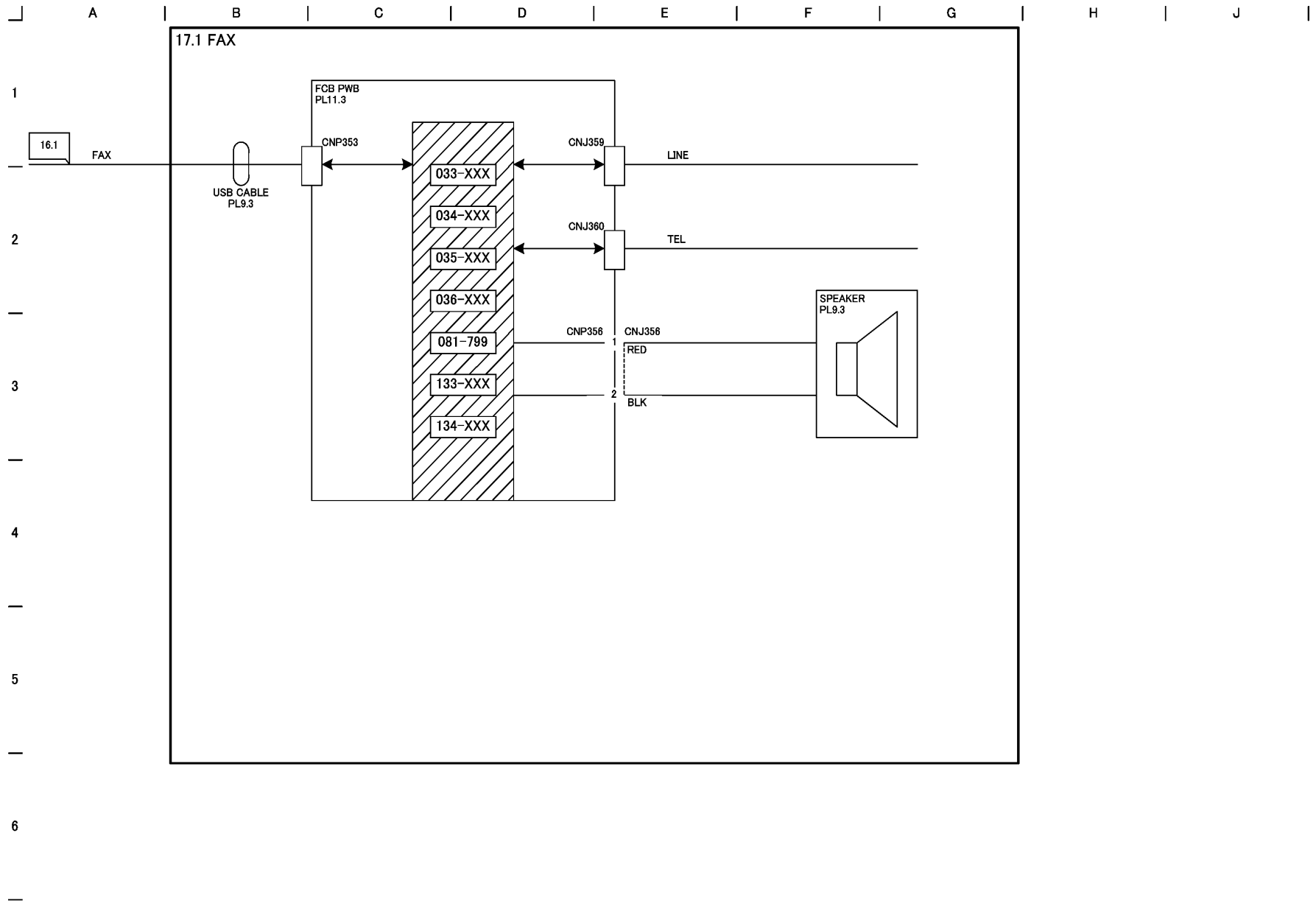
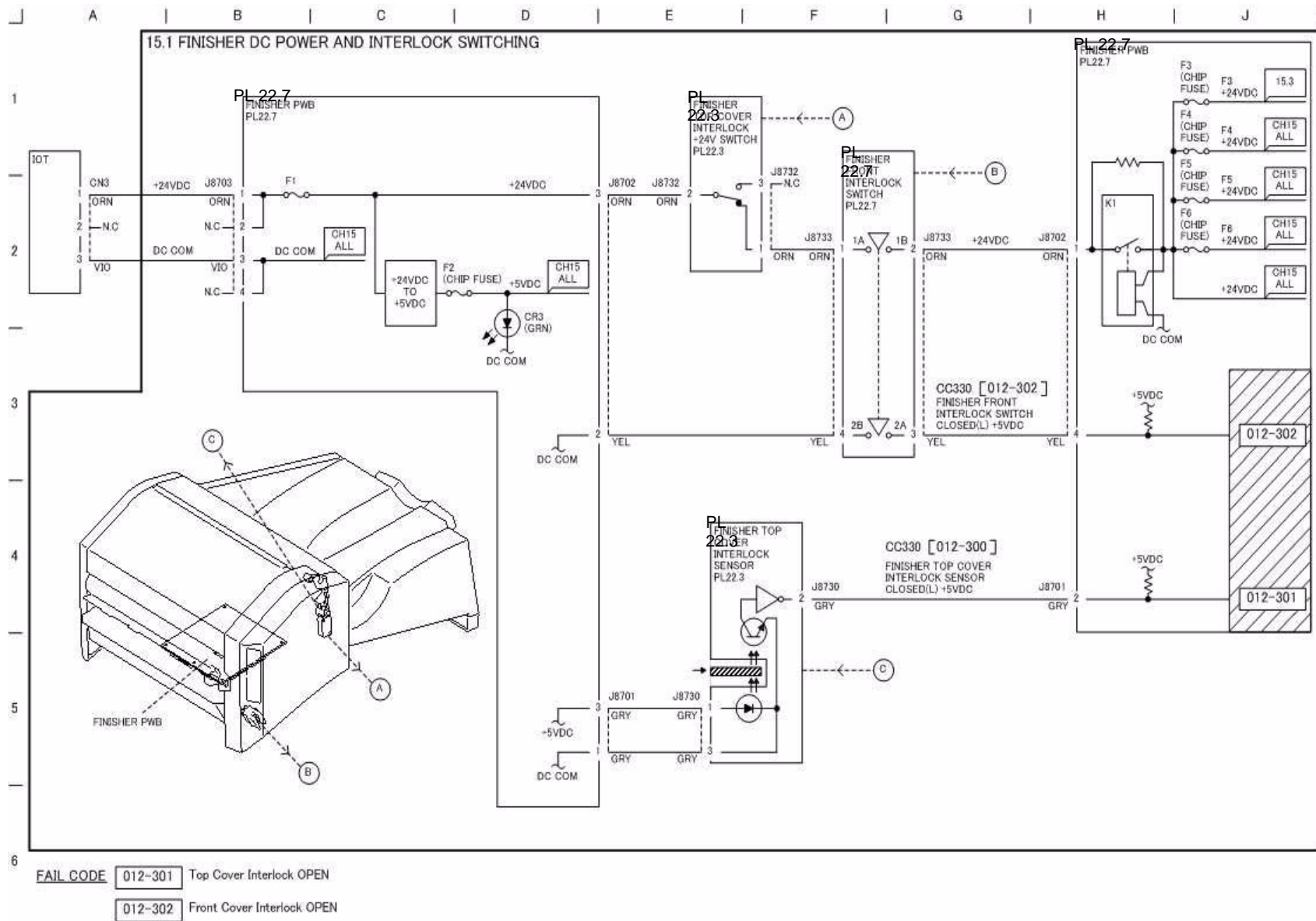


Figure 1 17.1 FAX (j0st91701)

j0st91701

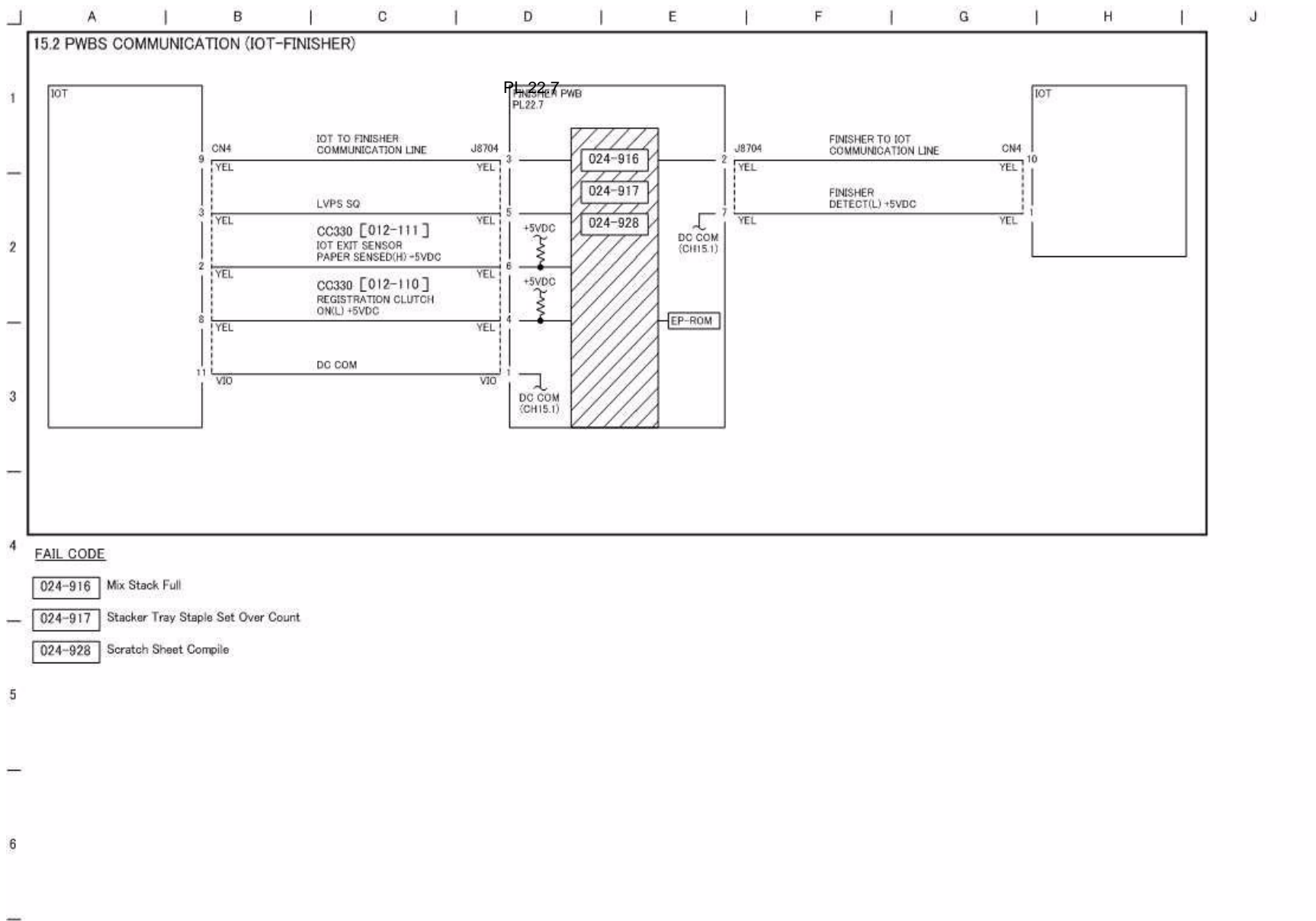
CH15.1 A-Finisher DC Power and Interlock Switching



j0fa731501

Figure 1 A-Finisher DC Power and Interlock Switching (j0fa731501)

CH15.2 PWBS Communication (IOT-A-Finisher)



j0fa731502

Figure 1 PWBS Communication (IOT-A-Finisher) (j0fa731502)

CH15.3 A-Finisher Transportation

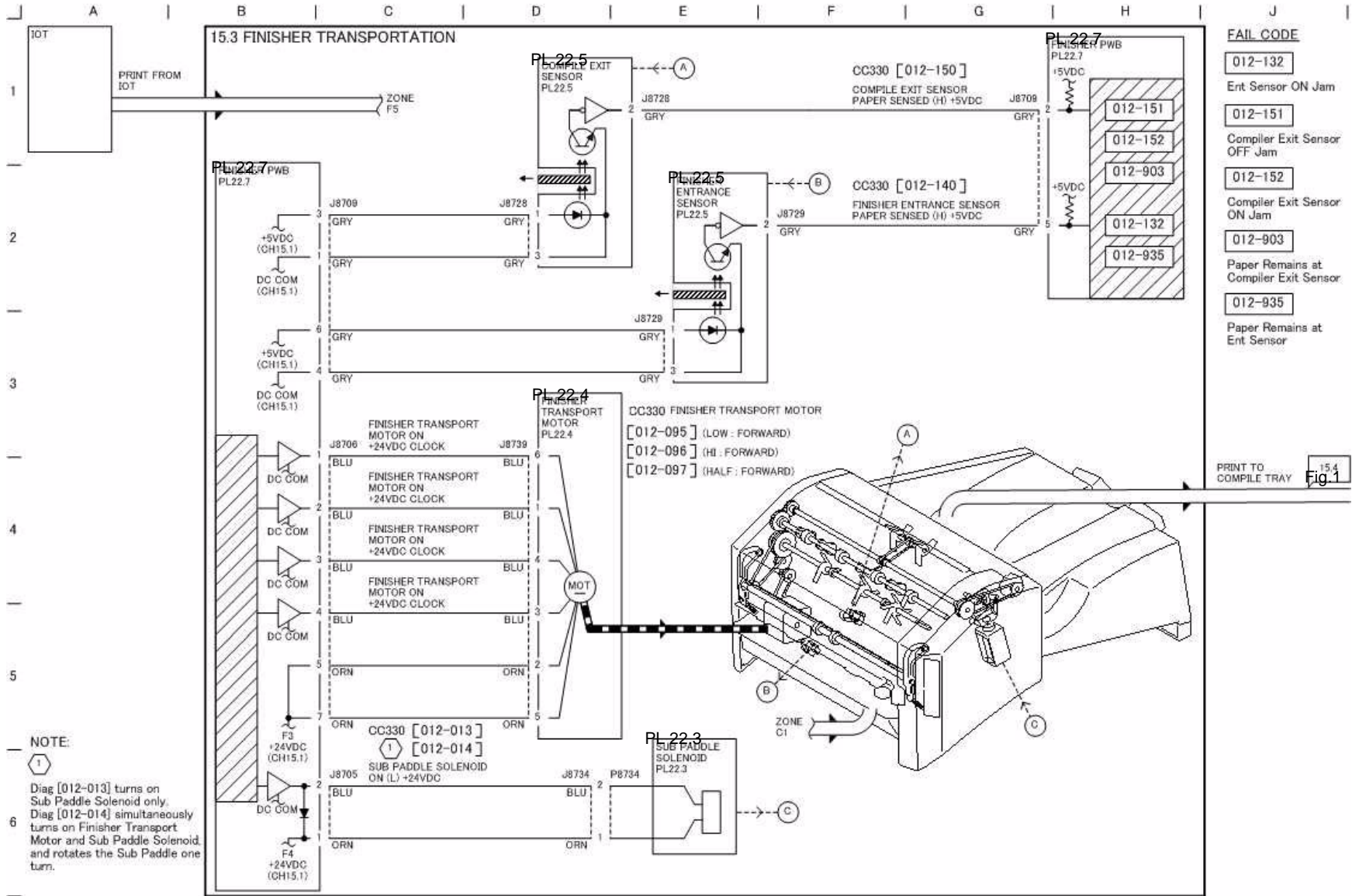


Figure 1 A-Finisher Transportation (j0fa731503)

j0fa731503

CH15.4 Tamping and Offset

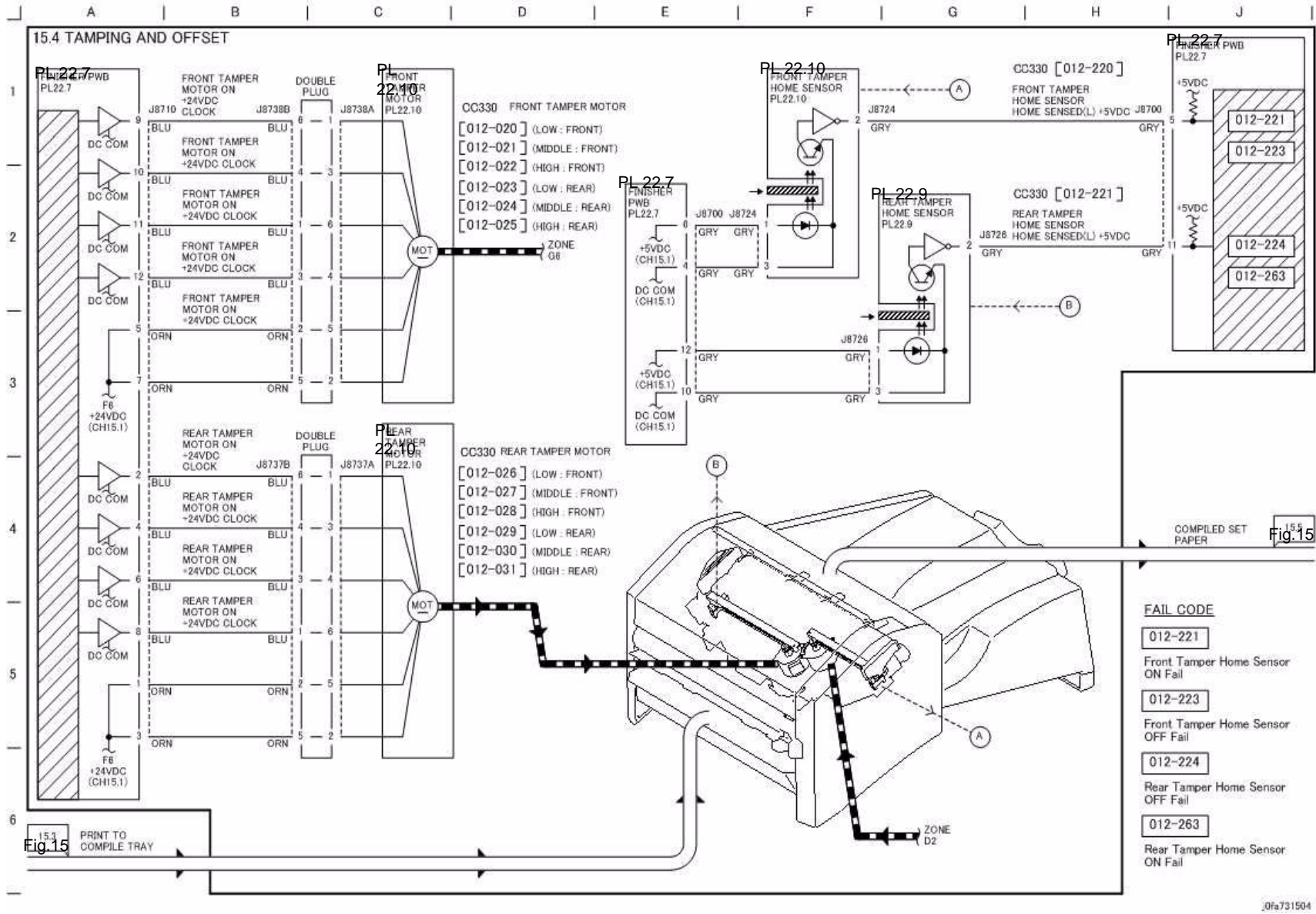


Figure 1 Tamping and Offset (j0fa731504)

CH15.5 Staple Control

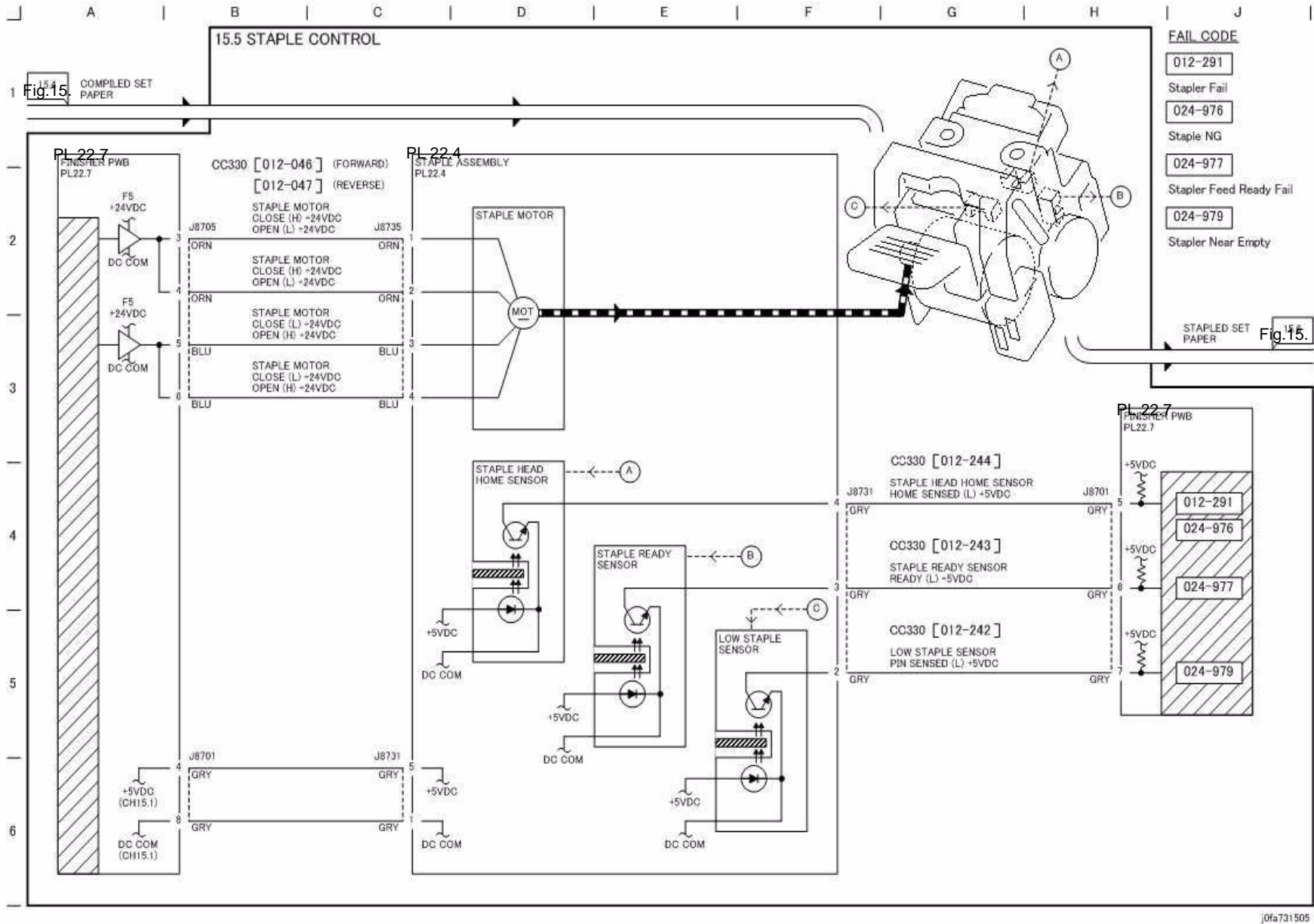


Figure 1 Staple Control (j0fa731505)

CH15.6 Set Eject (1 OF 2)

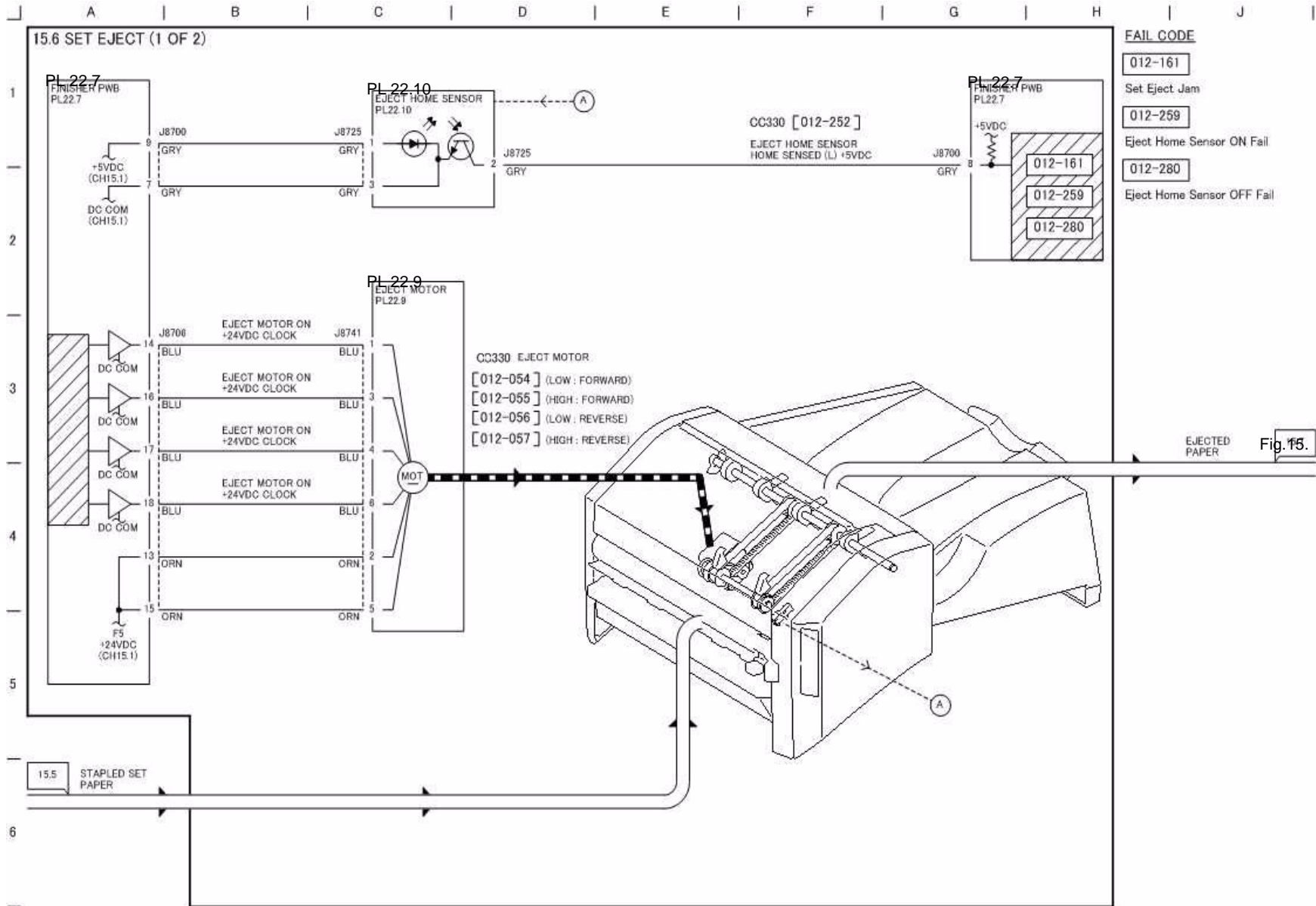


Figure 1 Set Eject (1 OF 2) (j0fa731506)

j0fa731506

CH15.7 Set Eject (2 OF 2)

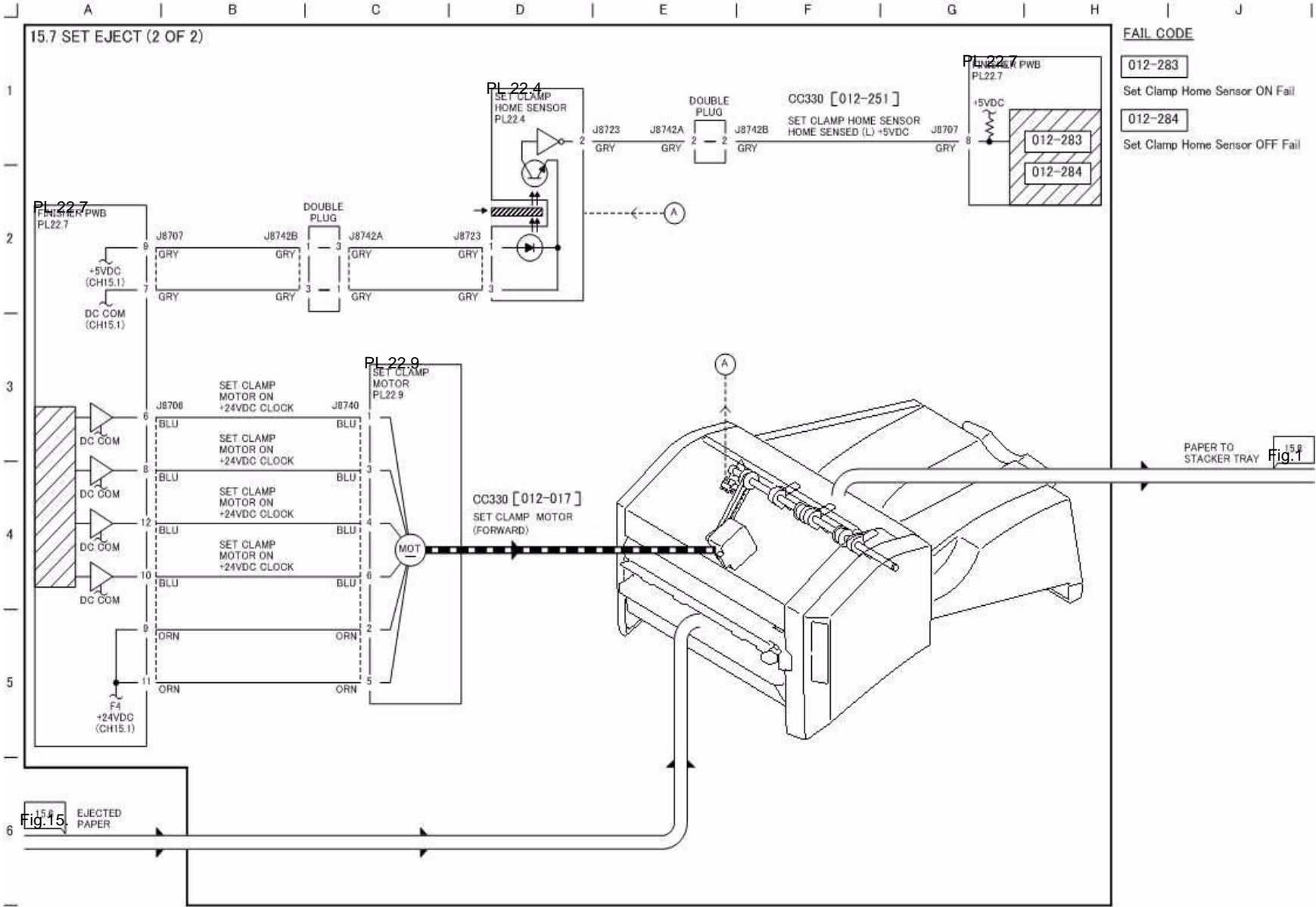
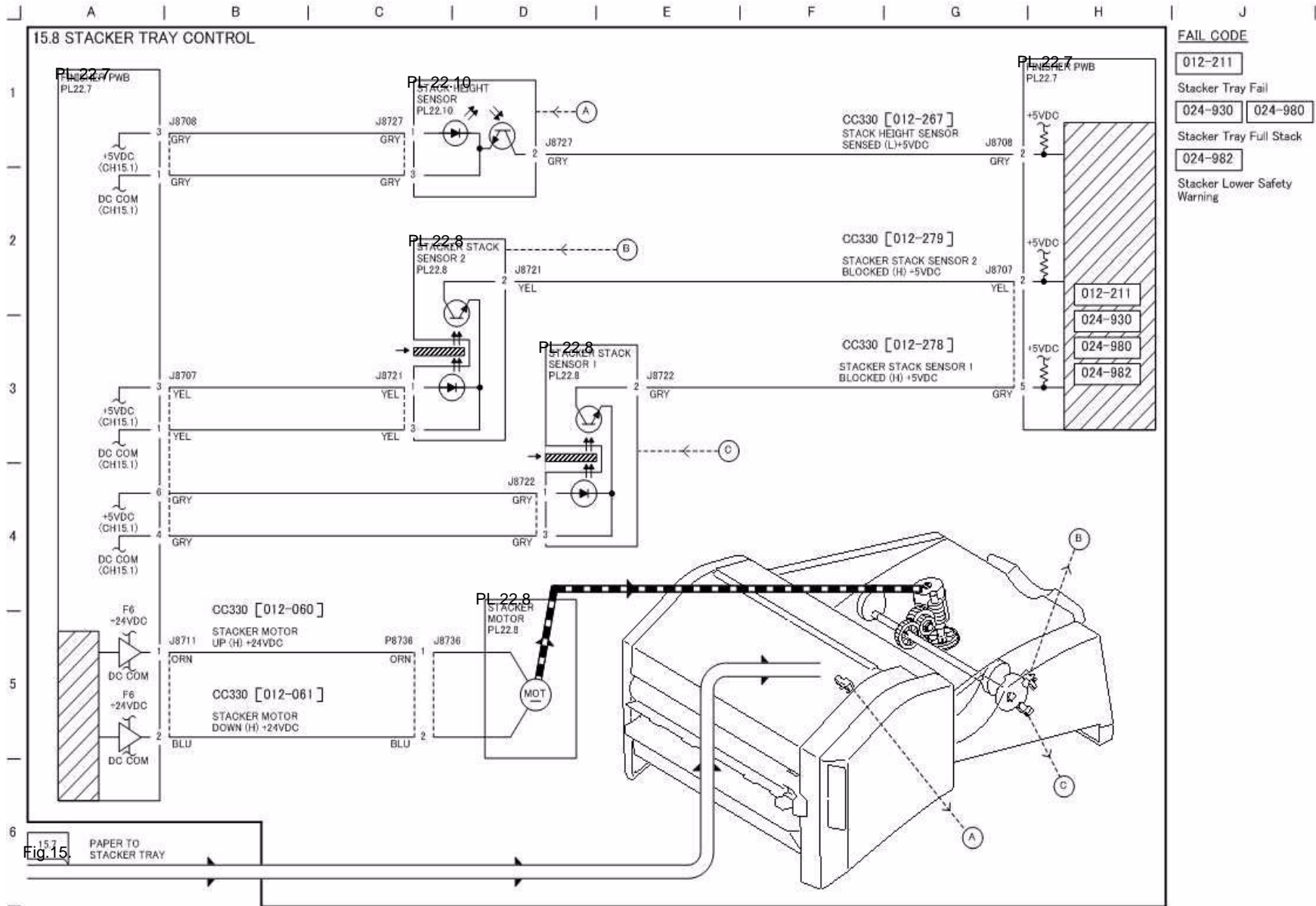


Figure 1 Set Eject (2 OF 2) (j0fa731507)

CH15.8 Stacker Tray Control



j0fa731508

Figure 1 Stacker Tray Control (j0fa731508)

8 Options and Accessories

8.1 Fax Kit 8-3

8.2 Foreign Interface 8-9

8.1 Fax Kit

For the **FAX Kit Installation Instructions**, go to the 0900 Install Information location of the SGS and select **FAX Kit Installation Guide**.

8.2 Foreign Interface

For the **Foreign Interface Installation Instructions**, go to the 0900 Install Information location of the SGS and select Foreign Interface Installation and Setup Guide.