CC C123/128,WC M123/128,WC Pro123/128,CC 133,WC 133,WC Pro133

Service Documentation

Copy Centre C123/128,Work Centre M123/128,Work Centre Pro123/128,Copy Center 133,Work Center 133,Work Center Pro 133 Service Documentation

705P 00902 (EDOC)

1st Version

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Xerox

While Xerox has tried to make the documentation accurate, Xerox will have no liability arising out of any inaccuracies or omissions.

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.

Introduction

About this Manual

This Service Manual is part of the multinational documentation system for

Copy Centre C123/128,Work Centre M123/128,Work Centre Pro123/128,Copy Center 133,Work Center 133,Work Center Pro 133 copier/printers. 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).

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.

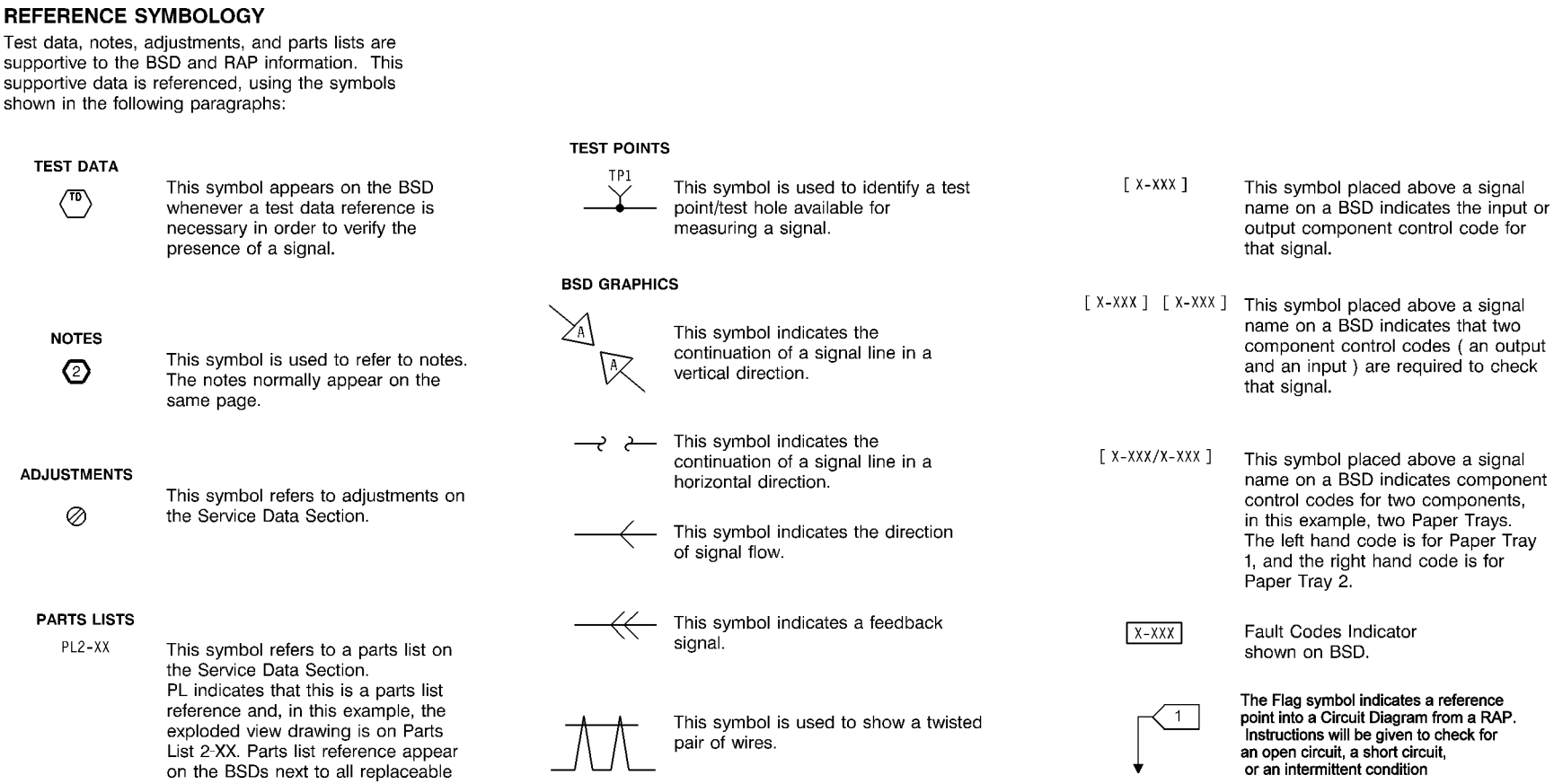


Figure 6 Illustration Symbols

Signal Nomenclature

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

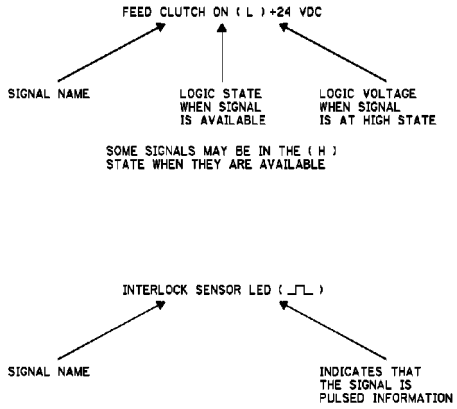


Figure 7 Signal Nomenclature

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

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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

REP 2.1.2 Feeder 2 Assembly

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

REP 2.6.1 BTR Roll

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

Xerographics/Development

REP 4.1.1 Xero/Developer Cartridge

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance

ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

REP 12.1.2 Tray 4 Feeder

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

REP 13.1.2 Tray 4 Assembly

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage avec le cordon d'alimentation branche.

REP 13.4.1 Tray 4 Feeder

WARNING

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

DANGER: Afin d'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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'eviter des blessures ou des chocs electriques, ne pas effectuer maintenance ou reglage 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 debrancher le cordon dalimentation.

8.2 Foreign Interface

WARNING

Switch off the machine and disconnect the power cord.

DANGER: Mettre la machine sur ARRET et debrancher le cordon dalimentation.

1 Service Call Procedures

Service Call Procedures

Service Strategy

The service strategy for the Copy Centre C123/128, the Work Centre M123/128 Work Centre Pro123/128, the Copy Center 133, the Work Center 133 and Work Center Pro 133 Copier/Printers 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

This 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. 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. 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

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
Refer to BSD (CH2.X) and repair the failure in the UI display.

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

A B C D E

A B C D E

- 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 parallel 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 Chapter 3 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.

F

If the problem persists, replace the parallel 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 6.1).
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 Firmware ADJ 9.3.1.
Can not make copies when Auditron is enabled.	Enter UI Diagnostic Mode. Select **Copy** on screen. Machne will operate without auditron restriction.
Loud snapping noise is heard.	Enter Component Control [093-001] and press the **Start** button. If noise is present there is binding in toner auger drive system. Repair as required (PL 4.2).
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.

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
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	Tray 4 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-805	MPT Feed counter	300K	Replace the Feed Roll, Retard Pad.
954-807	Fuser	175K	Replace the Fuser.
954-808	Bias Transfer Roll	300K	Replace the Bias Transfer Roll.
956-802	IIT Scan	-	No action required - counter only.
956-803	Lamp On Time	-	No action required - count after HFSI Counter Clear.
956-804	Lamp On Count	-	No action required - count after HFSI Counter Clear.
955-806	Document Feed	-	No action required - counter only.
955-807	Simplex Document Feed	-	No action required - counter only.
955-808	Duplex Document Feed	-	No action required - counter only.
956-808	Platen Open Count	-	No action required - counter only. (Platen models)
955-810	DADF Platen Open Count	-	No action required - counter only. (DADF models)
955-829	Invert Solenoid ON Count	-	No action required - counter only.
955-830	DADF Stamp Solenoid	-	FX, FXAP only.

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. **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 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.

010-xxx Fuser

012-xxx Finisher

016-xxx FAX Service

021-xxx FAX

024-xxx IOT-ESS Communication

025-xxx Diag HDD

027-xxx MAIL

033-xxx FAX Control

034-xxx FAX Communication

035-xxx FAX Network

121-xxx EP

123-xxx Software

124-xxx ROM/RAM

127-xxx Software Other

133-xxx Fax Control

134-xxx Fax Card

202-xxx Timer

Other Faults

002-770 Job Template Processing - HD 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.

003-318 IIT Soft Failure RAP

The IIT software is faulty.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the ESS PWB (PL 9.2).

003-319 IIT Video Driver Detection Failure RAP

The following errors have been detected from the driver:

Compression Threshold overflow

DMA Transfer error

Other compression system errors

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the ESS PWB (PL 9.2).

003-320 IISS-ESS Communication Failure 1 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-321 IISS-ESS Communication Failure 2 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-322 IISS-ESS Communication Failure 3 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-323 IISS-ESS Communication Failure 4 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-324 IISS-ESS Communication Failure 5 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-325 IISS-ESS Communication Failure 6 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-326 IISS-ESS Communication Failure 7 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-327 IISS-ESS Communication Failure 8 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-328 IISS-ESS Communication Failure 9 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-329 IISS-ESS Communication Failure 10 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-330 IISS-ESS Communication Failure 11 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-331 IISS-ESS Communication Failure 12 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-332 IISS-ESS Communication Failure 13 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-333 IISS-ESS Communication Failure 14 RAP

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

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-334 IISS-ESS Communication Failure 15 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-335 IISS-ESS Communication Failure 16 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-336 IISS-ESS Communication Failure 17 RAP

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.)

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-337 IISS-ESS Communication Failure 18 RAP

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.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Reload Firmware (ADJ 9.3.1).
If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-338 IISS-ESS Communication Failure 19 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-339 IISS-ESS Communication Failure 20 RAP

The establishment of PAR transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-340 IISS-ESS Communication Failure 21 RAP

A PAR synchronization error during sending occurred.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-341 IISS-ESS Communication Failure 22 RAP

A PAR transmission error during sending occurred.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-342 IISS-ESS Communication Failure 23 RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-343 IISS-ESS Communication Failure 24 RAP

A PAR synchronization error during receiving occurred.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).
Pull out and insert or replace the IIT Cable.

003-345 X PIO Unlatched Failure 1 RAP

When X Job Fail was received from the IIT/IPS PWB, a X Hot Line error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Replace the ESS PWB (PL 9.2).
Replace the IIT/IPS PWB (PL 11.3).

003-346 X PIO Unlatched Failure 2 RAP

When IIT Image Delivered was received from the IIT/IPS PWB, a X Hot Line error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of the IIT/IPS PWB Connection Harness.
Replace the ESS PWB (PL 9.2).
Replace the IIT/IPS PWB (PL 11.3).

003-750 Book Duplex-Insufficient Docs RAP

No sheets are stored in the setting conditions.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

003-751 Under PANTHER Capacity (Scan) RAP

The processed data is too small (the specified range for the document is too small).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Increase the specified area for the size of the document.

003-753 Cannot scan over 300DPI RAP

When scan settings were set to above 300dpi, a mixed size or 2 Sided original was scanned.

Initial Actions

Change the setting to below 200dpi and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-760 Scan Settings Failure RAP

The job properties are incorrect.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

003-761 Incorrect Paper Tray Size RAP

When the Cover Content Tray or Separator + N set Tray is selected in APS, the paper size is different from that in the Cover Tray or the Transparency Tray.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

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. Either change the paper size for the tray, or change the paper type priority setting.

003-763 Adjustment Chart Not Found RAP

When Automatic Gradation Correction was executed, the patch for position detection on the document was not available.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Place the Automatic Gradation Correction Chart correctly.

003-780 Scan Image Compression Error RAP

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

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3).

003-795 AMS Limit Error RAP

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

Initial Actions

Enter the ratio or change the paper size.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-942 Document size Auto Detect Failure RAP

The document size cannot be automatically detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Manually set the document size.

003-944 Image repeat count Failure RAP

No complete images are output using Automatic Size.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Change the parameter and then repeat the operation.

003-945 Magnification incongruent RAP

Regardless of whether there is rotation, the input image size does not fit into any of the available sizes.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Change the parameter and then repeat the operation.

003-946 Every direction difference (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.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-947 Return Documents counts error RAP

The no. of documents returned by the user was less than the no. of specified documents.

Initial Actions

Check the no. of documents and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

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.

Initial Actions

Check the document and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-949 Document insufficient (image overlay) RAP

During Image Overlay, only 1 page was stored (single sheet document).

Initial Actions

Check the document.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3). If the problem persists, replace the ESS PWB (PL 9.2).

003-950 Mix documents size error RAP

When Mixed Size Originals was selected in DADF mode, various document size errors occurred.

Initial Actions

Check the document size setting and repeat the operation.

Power OFF/ON

Procedure

Replace the DADF PWB (PL 15.3). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-955 Documents size exchange error 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.

Power OFF/ON

Procedure

Replace the DADF PWB (PL 15.3). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-956 Documents size unknown error RAP

With Platen selected, the document size could not be identified. (APS only)

Initial Actions

Enter the document size or select a tray with the same paper size as the document.

Power OFF/ON

Procedure

Replace the DADF PWB (PL 15.3). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-957 Platen Documents size error RAP

With Platen selected, the document size could not be identified. (Other than APS)

Initial Actions

Enter the document size or select a tray with the same paper size as the document.

Power OFF/ON

Procedure

Replace the DADF PWB (PL 15.3). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

003-963 No APS object Tray RAP

There was no APS compatible tray that could supply paper for printing without omitting part of the image.

Initial Actions

Select a tray that supplies such paper and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-965 ATS/APS No Paper (IIT Detect) RAP

There was no paper in the tray for APS.

Initial Actions

Add paper in the tray and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-966 ATS/APS No Destination (IIT) RAP

There was no tray for APS.

Initial Actions

Change the parameter setting and repeat the operation.

Power OFF/ON

Procedure

Replace the IIT/IPS PWB (PL 11.3).

003-970 FAX Line Memory Overflow RAP

The no. of lines in the Slow Scan Direction exceeds the upper limit during processes such as Fax parallel synthesis or enlargement of long documents.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the installation of the Page Memory.
Replace the FCB PWB (PL 9.3).

003-972 Maximum Stored Page Over Flow RAP

The no. of pages stored exceeded the maximum no. set in the system data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the no. of pages of the document to be within the maximum no. of pages that can be stored.

003-973 Every direction difference RAP

Rotation is not available even though the orientation of the document and the image are different and part of the image will be omitted if it is not rotated.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute the operation as it is or cancel the operation.

003-974 Next Original Specification RAP

Scanning has been completed for all loaded documents.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Decide whether there is another document.

003-976 FAX Line Memory Overflow (N up) RAP

The no. of lines in the Slow Scan Direction exceeds the upper limit (65535) during processes such as Fax parallel synthesis or enlargement of long-sized documents.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the installation of the Page Memory.
Replace the FCB PWB (PL 9.3).

003-977 Document Mismatch (Multiple Scan) RAP

Document exchange was detected during Bound Originals/Booklet Creation/Poster scanning.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload the document.

003-980 Staple position error RAP

Stapling could not be done at the specified position.

Initial Actions

Change the parameter setting and repeat the operation.

Power OFF/ON

Procedure

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

003-981 Staple size error RAP

Stapling could not be done for the selected paper size.

Initial Actions

Clear the Staple function.

Power OFF/ON

Procedure

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

005-121 CVT Feed Sensor On JAM RAP

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

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-205]. Actuate the DADF Feed Out Sensor (PL 15.9) 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 15.3).

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 15.9).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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.

Measure the voltage between the DADF PWB (PL 15.3) P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

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

- 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

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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 (PL 15.3) 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 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-123 CVT Simplex/Side1 Registration JAM RAP

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

Initial Actions

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-110]. Actuate the DADF Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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.

Measure the voltage between the DADF PWB (PL 15.3) P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-125 CVT Registration Sensor Off JAM RAP

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

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-110]. Actuate the DADF Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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.

Measure the voltage between the DADF PWB (PL 15.3) P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. The DADF Registration Motor (PL 15.9) 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 (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-131 CVT Invert On JAM RAP

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

Initial Actions

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-211]. Actuate the DADF Invert Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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 (PL 15.3) P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-132 CVT Invert On JAM 2 RAP

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

Initial Actions

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-211]. Actuate the DADF Invert Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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 (PL 15.3) P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

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

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

Initial Actions

- Refer to BSD 5.4/5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-211]. Actuate the DADF Invert Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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 (PL 15.3) P755-1 (+) and GND (-), and between P755-6 (+) and GND (-) (BSD 5.5 Flag 2). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-135 CVT Side2 Pre-Registration On JAM RAP

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

- Refer to BSD 5.4/5.5.
- Power OFF/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 (PL 15.7) 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 andJ761 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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.**

A

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-072]. **The Exit Nip Release Solenoid (PL 15.7) 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 15.7). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

A

005-136 CVT Side2 Registration On JAM RAP

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

Initial Actions

- Refer to BSD 5.5.
- Power OFF/ON

Procedure

Execute Component Control[005-110]. Actuate the DADF Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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 andJ754 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.

Measure the voltage between the DADF PWB (PL 15.3) P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

A

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-072]. **The Exit Nip Release Solenoid (PL 15.7) 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 15.7). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

A

005-139 CVT Invert Sensor Off JAM RAP

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

Initial Actions

- Refer to BSD 5.4/5.5.
- Power OFF/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 (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) starts up.**

Y N

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

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.**

A

A

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-072]. **The Exit Nip Release Solenoid (PL 15.7) 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 15.7). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

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

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

Initial Actions

Refer to BSD 5.4/5.5.

Open the DADF Top Cover and remove the paper.

Power OFF/ON

Procedure

Execute Component Control[005-110]. Actuate the DADF Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-001]. **The DADF Feed Motor (PL 15.9) 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 (PL 15.3) 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 15.3).

Replace the DADF Feed Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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 (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-146 CVT Pre Registration Sensor Off JAM RAP

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

Refer to BSD 5.4/5.5/5.6.

Power OFF/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 (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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.

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 (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-072]. **The Exit Nip Release Solenoid (PL 15.7) 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 15.7). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

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

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

Initial Actions

Refer to BSD 5.4/5.5/5.6.

Power OFF/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 (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-026]. **The DADF Registration Motor (PL 15.9) 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.

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 (PL 15.3) 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 15.3).

Replace the DADF Registration Motor (PL 15.9). If the problem persists, replace the DADF PWB (PL 15.3).

Execute Component Control[005-072]. **The Exit Nip Release Solenoid (PL 15.7) 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 15.7). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-194 SS Size mismatch JAM on FF Mix-size RAP

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

Initial Actions

Refer to BSD 5.1.

Check the document guide and repeat the operation.

Power OFF/ON

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 5.1Flag 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 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

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 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-196 CVT Size Mismatch JAM (No Mix) RAP

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

Initial Actions

- Refer to BSD 5.1.
- Power OFF/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 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

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.

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

A

Y N

Replace the DADF PWB (PL 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-197 Prohibit Combine Size JAM RAP

A prohibited size combination was detected.

Initial Actions

- Refer to BSD 5.1.
- Power OFF/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 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

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.

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

A

Y N

Replace the DADF PWB (PL 15.3).

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 15.10).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-198 Too Short Size JAM RAP

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

Initial Actions

- Refer to BSD 5.4.
- 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.

Execute Component Control[005-205]. Actuate the DADF Feed Out Sensor (PL 15.9) 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 15.3).

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 15.9).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor (PL 15.7) 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

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-199 Too Long Size JAM RAP

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

- Refer to BSD 5.4.
- 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 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 (PL 15.9) 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 15.3).

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 15.9).

Replace the DADF PWB (PL 15.3).

A

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

A

005-280 DADF EEPROM Failure RAP

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

Initial Actions

- Refer to BSD 3.5.
- Power OFF/ON

Procedure

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

Y N

Connect the connectors.

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

Y N

End

Replace the DADF PWB (PL 15.3).

005-283 DADF Level Sensor Logic Fail RAP

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

Initial Actions

- Refer to BSD 5.2.
- Power OFF/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 15.3).

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 15.5).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-090]. **The DADF Nudger Motor (PL 15.6) 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.**

Y N

Repair the open circuit or short circuit.

A B

A B

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

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Nudger Motor (PL 15.6). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-284 DADF APS Sensor Logic Failure RAP

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

Initial Actions

- Refer to BSD 5.4.
- Power OFF/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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-285 DADF Nudger Lift Up Failure RAP

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

Initial Actions

- Refer to BSD 5.2.
- Power OFF/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 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 15.5).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-090]. **The DADF Nudger Motor (PL 15.6) 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 15.3) P786-1 (+) and GND (-) (BSD 5.2 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Nudger Motor (PL 15.6). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-286 DADF Feed Out Sensor Failure RAP

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

Initial Actions

Refer to BSD 5.4.

Power OFF/ON

Procedure

Execute Component Control[005-205]. Actuate the DADF Feed Out Sensor (PL 15.9) 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 15.3).

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 15.9).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-206]. Actuate the DADF Pre Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-302 CVT Feeder Cover Interlock Open RAP

The DADF Interlock is open.

Initial Actions

- Refer to BSD 1.3.
- Power OFF/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 (PL 15.7) 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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-304 CVT Platen Interlock Open RAP

The Platen Interlock is open.

Initial Actions

- Refer to BSD 6.1.
- Power OFF/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 (PL 11.4) 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 11.4).

Replace the IIT/IPS PWB (PL 11.3).

Replace the IIT/IPS PWB (PL 11.3).

005-305 CVT Feeder Cover Interlock Open (running) RAP

The system detected that the DADF Interlock was opened while the DADF was running (RUN/SUSPEND).

Initial Actions

- Refer to BSD 1.3.
- Power OFF/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 (PL 15.7) 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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-307 CVT Platen Interlock Open on Running RAP

The Platen Interlock is open while the DADF is running (RUN/SUSPEND).

Initial Actions

- Refer to BSD 6.1.
- Power OFF/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

Connect P/J727 and P/J722.

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.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Platen Open Switch (PL 11.4) between J722-A10 and J722-A11 (BSD 6.1 Flag 3/Flag 4). **The wire between J722-A10 and J722-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 11.4).

Replace the IIT/IPS PWB (PL 11.3).

Replace the IIT/IPS PWB (PL 11.3).

005-906 CVT Feed Sensor Static JAM RAP

Paper remains on the DADF Feed Out Sensor.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

Procedure

Execute Component Control[005-205 DADF Feed Out Sensor]. Actuate the DADF Feed Out Sensor (PL 15.9) 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 15.3).

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 15.9).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-907 CVT Pre-Registration Sensor Static JAM RAP

Paper remains on the DADF Pre Registration Sensor.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

Procedure

Execute Component Control[005-206 DADF Pre Registration Sensor]. Actuate the DADF Pre Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-908 CVT Registration Sensor Static JAM RAP

Paper remains on the DADF Registration Sensor.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

Procedure

Execute Component Control[005-110 DADF Registration Sensor]. Actuate the DADF Registration Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-913 CVT Invert Sensor Static JAM RAP

Paper remains on the DADF Invert Sensor.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

Procedure

Execute Component Control[005-211 DADF Invert Sensor]. **Actuate the DADF Invert Sensor (PL 15.7) 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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-915 CVT APS No1 Sensor Static JAM RAP

Paper remains on the APS Sensor 1.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-916 CVT APS No2 Sensor Static JAM RAP

Paper remains on the APS Sensor 2.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-917 CVT APS No3 Sensor Static JAM RAP

Paper remains on the APS Sensor 3.

Initial Actions

- Refer to BSD 5.4.
- Power OFF/ON
- Remove the paper.

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 15.3).

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 15.7).

Replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-942 Doc fault loading on DADF RAP

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/ON

Refer to BSD 5.2.

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 15.5).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-090]. **The DADF Nudger Motor (PL 15.6) 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 (PL 15.3) P786-1 (+) and GND (-) (BSD 5.2 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Nudger Motor (PL 15.6). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

005-943 DADF Tray Lift Up Failure RAP

During document feed, the DADF Nudger Solenoid did not turn On.

Initial Actions

Power OFF/ON

Reduce the no. of sheets and repeat the operation.

Power OFF/ON

Refer to BSD 5.2.

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 15.5).

Replace the DADF PWB (PL 15.3).

Execute Component Control[005-090 DADF Nudger Motor]. **The DADF Nudger Motor (PL 15.6) 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

A

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

Y N

Replace the DADF PWB (PL 15.3).

Replace the DADF Nudger Motor (PL 15.6). If the problem persists, replace the DADF PWB (PL 15.3).

Replace the DADF PWB (PL 15.3).

010-313 Control (Center) Thermistor Failure RAP

The Control (Center) Thermistor has an open circuit.

Initial Actions

- Refer to BSD 10.1.
- 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 P600-5 and P600-6 (BSD 10.1 Flag 2/Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the wire between J410 and J600 for an open circuit or a short circuit (BSD 10.1 Flag 2/ Flag 3). **The wire between J410 and J600 conducts as expected.**

Y N

Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 5.1). If the problem persists, replace the MCU PWB (PL 9.1).

010-314 Rear Thermistor Failure RAP

The Rear Thermistor has an open circuit.

Initial Actions

- Refer to BSD 10.1.
- 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 P600-2 and P600-4 (BSD 10.1 Flag 2/ Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the wire between J410 and J600 for an open circuit or a short circuit (BSD 10.1 Flag 2/ Flag 3). **The wire between J410 and J600 conducts as expected.**

Y N

Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 5.1). If the problem persists, replace the MCU PWB (PL 9.1).

010-318 Hot-Sagging =Recovery Failure RAP

The Rear Thermistor detected that the machine does not recover from Hot-Sagging in time.

Initial Actions

- Refer to BSD 4.1/10.1.
- Power OFF/ON

Procedure

Check for paper on the Fuser. **The Fuser 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[071-036 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 P600-2 and P600-4 (BSD 10.1 Flag 2/ Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the wire between J410 and J600 for an open circuit or a short circuit (BSD 10.1 Flag 2/ Flag 3). **The wire between J410 and J600 conducts with less** than a few ohms**.**

Y N

Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 5.1). If the problem persists, replace the Power Unit (PL 9.1). If the problem persists, replace the MCU PWB (PL 9.1).

010-320 Heat Roll Over Temperature Failure RAP

- 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

Refer to BSD 10.1.

Procedure

NOTE: *When [010-320] occurs, NVM[744-220 FuserOverTemp]=1. After repair, change it to NVM[744-220 FuserOverTemp]=0.*

Check the resistance of the Control (Center) Thermistor between P600-5 and P600-6 (BSD 10.1 Flag 2/Flag 3). **The resistance is 3k Ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the resistance of the Rear Thermistor between P600-2 and P600-4 (BSD 10.1 Flag 2/Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the wire between J410 and J600 for a short circuit (BSD 10.1 Flag 2/Flag 3). **The wire between J410 and J600** conducts with less than a few ohms**.**

Y N

Repair the open circuit or short circuit.

Check the wire between J401 and J523 for an open circuit or a short circuit (BSD 10.1 Flag 4). **The wire between J401 and J523** conducts with less than a few ohms**.**

Y N

Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 5.1). If the problem persists, replace the Power Unit (PL 9.1). If the problem persists, replace the MCU PWB (PL 9.1).

010-327 Fuser On Time Failure RAP

- 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

- Refer to BSD 10.1.
- Voltage Supply
- Indoor Temperature

Procedure

NOTE: *When [010-327] occurs, NVM[744-220 FuserOverTemp]=1. After repair, change it to NVM[744-220 FuserOverTemp]=0.*

Check for paper on the Fuser. **The Fuser 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 5.1).

Check the resistance of the Main Lamp between P600-3 and P600-7 for an open circuit or a short circuit (BSD 10.1 Flag 1). **The resistance of the Main Lamp is 100 ohms or lower.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the resistance of the Sub Lamp between P600-1 and P600-7 for an open circuit or a short circuit (BSD 10.1 Flag 1). **The resistance of the Sub Lamp is 100 ohms or lower.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the resistance of the Control (Center) Thermistor between P600-5 and P600-6 (BSD 10.1 Flag 2/Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

A

Check the resistance of the Rear Thermistor between P600-2 and P600-4 (BSD 10.1 Flag 2/Flag 3). **The resistance is 3k ohms or higher.**

Y N

Replace the Fuser Unit (PL 5.1).

Check the wire between J410 and J600 for an open circuit or a short circuit (BSD 10.1 Flag 2/Flag 3). **The wire between J410 and J600 conducts with less than a few ohms.**

Y N

Repair the open circuit or short circuit.

Check the wire between J6 and J600 for an open circuit or a short circuit (BSD 10.1 Flag 1). **The wire between J6 and J600 conducts with less than a few ohms.**

Y N

Repair the open circuit or short circuit.

Check the wire between J401 and J523 for an open circuit or a short circuit (BSD 10.1 Flag 4). **The wire between J401 and J523 conducts with less than a few ohms.**

Y N

Repair the open circuit or short circuit.

Replace the Fuser Unit (PL 5.1). If the problem persists, replace the Power Unit (PL 9.1). If the problem persists, replace the MCU PWB (PL 9.1).

A

010-398 Fuser Lock Failure RAP

The Fuser Fan failed.

Initial Actions

- Refer to BSD 10.2.
- 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 (PL 4.2). **The Fuser Fan (PL 4.2) is rotating.**

Y N

Measure the voltage between the MCU PWB J408-2 (+) and GND (-) (BSD 10.2 Flag 1). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J214-13 and J408-2 for an open circuit or a short circuit (BSD 10.2 Flag 1). **The wire between J214-13 and J408-2 conducts with less than a few ohms.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Main Drive Assembly CN102-3 (+) and CN102-2 (-) (BSD 10.2 Flag 2). **The voltage is +24VDC.**

Y N

Replace the Main Drive Assembly (PL 1.1).

Replace the Fuser Fan (PL 4.2).

Measure the voltage between the MCU PWB J408-1 (+) and GND (-) (BSD 10.2 Flag 4). **The voltage is approx. 0VDC.**

Y N

Measure the voltage between the Main Drive Assembly CN102-1 (+) and GND (-) (BSD 10.2 Flag 4). **The voltage is approx. 0VDC.**

Y N

Replace the Fuser Fan (PL 4.2).

Check the wire between J214-14 and J408-1 for an open circuit or a short circuit (BSD 10.2 Flag 4). **The wire between J214-14 and J408-1 conducts with** less than a few ohms**.**

Y N

Repair the open circuit or short circuit.

Replace the Main Drive Assembly (PL 1.1).

Replace the MCU PWB (PL 9.1).

012-111 Finisher H-Transport Entrance Sensor Off JAM RAP

After the H-Transport Entrance Sensor turned On, the H-Transport Entrance Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.2.
- 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 (PL 16.3) 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.3) 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 16.3).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the H-Transport Motor (PL 16.3). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-112 Finisher H-Transport Entrance Sensor On JAM RAP

After the Engine Fuser Exit Sensor turned On, the H-Transport Entrance Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 12.2.
- 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 (PL 16.3) 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.3) 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 16.3).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the H-Transport Motor (PL 16.3). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-121 H-Transport Exit Sensor Off JAM RAP

After the H-Transport Exit Sensor turned On, the H-Transport Exit Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.2.
- 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 (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 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.3) 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 16.3).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the H-Transport Motor (PL 16.3). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-126 H-Transport Entrance. SNR OFF JAM B RAP

After the H-Transport Entrance Sensor turned On, the H-Transport Entrance Sensor did not turn Off within the specified time.

Initial Actions

Refer to BSD 12.2.

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 (PL 16.3) 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.3) 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 16.3).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the H-Transport Motor (PL 16.3). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-151 Compile Entrance Sensor Off JAM RAP

After the Compile Entrance Sensor turned On, the Compile Entrance Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.3.
- 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 (PL 16.11) 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 16.12).

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 16.11).

Replace the Finisher PWB (PL 16.12).

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.**

Y N

Connect P/J8846 and P/J8800.

A B

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 (PL 16.6) between J8800-1/6 (COM) and each point of J8800-2/3/4/5 (BSD 12.3 Flag 3). **The resistance is approx. 20Ohm.**

Y N

Replace the Finisher Drive Motor (PL 16.6).

Measure the voltage between each point of the Finisher PWB (PL 16.12) P8846-5/7/9/11 (+) and GND (-) (BSD 12.3 Flag 3). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 16.12).

Replace the Finisher Drive Motor (PL 16.6). If the problem persists, replace the Finisher PWB (PL 16.12).

A B

Replace the Finisher PWB (PL 16.12).

012-152 Compile Entrance Sensor On JAM RAP

After the H-Transport Exit Sensor turned On, the Compile Entrance Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 12.3.
- 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 (PL 16.11) 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 16.12).

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 16.11).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.6) between J8800-1/6 (COM) and each point of J8800-2/3/4/5 (BSD 12.3 Flag 3). **The resistance is approx. 20Ohm.**

Y N

Replace the Finisher Drive Motor (PL 16.6).

Measure the voltage between each point of the Finisher PWB (PL 16.12) P8846-5/7/9/11 (+) and GND (-) (BSD 12.3 Flag 3). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 16.12).

Replace the Finisher Drive Motor (PL 16.6). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

A

012-161 Finisher Set Eject JAM RAP

After the Eject Motor turned On, the Compile Paper Sensor (PL 16.9) did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.4/12.7.
- Power OFF/ON

Procedure

Execute Component Control[012-151 Compile Paper Sensor]. Actuate the Compile Paper Sensor (PL 16.9) 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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

Alternately execute Component Control[012-081 Eject Motor FORWARD ON] and Component Control[012-082 Eject Motor REVERSE ON]. **The Eject Motor (PL 16.7) 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.

Measure the resistance of the Eject Motor (PL 16.7) between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 2Ohm.**

A

Y N

Replace the Eject Motor (PL 16.7).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-162 H-Tra.EXIT. Sensor ON JAM RAP

After the H-Transport Entrance Sensor turned On, the H-Transport Exit Sensor did not turn On within the specified time.

Initial Actions

Refer to BSD 12.2.

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 (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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.3) 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 16.3).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the H-Transport Motor (PL 16.3). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-211 Stacker Tray Failure RAP

After Stacker Tray started descending, the Stack Height Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.8.
- 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 16.12).

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 16.5).

Replace the Finisher PWB (PL 16.12).

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.

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 16.10). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

012-212 Stacker Tray Upper Limit Failure RAP

After the Stacker Tray started descending, the Stacker Upper Limit Sensor remained ON.

Initial Actions

- Refer to BSD 12.8/12.9.
- 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 16.12).

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 16.10).

Replace the Finisher PWB (PL 16.12).

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.

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

A B

Replace the Stacker Motor (PL 16.10). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

012-221 Front Tamper Home Sensor On Failure RAP

After the Front Tamper started moving to the home position, the Front Tamper Home Sensor did not turn On within 800ms.

Initial Actions

- Refer to BSD 12.4.
- 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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.9) 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

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 (PL 16.9) 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 16.9).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Front Tamper Motor (PL 16.9). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-223 Front Tamper Home Sensor Off Failure RAP

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

- Refer to BSD 12.4.
- 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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.9) 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 (PL 16.9) 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 16.9).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Front Tamper Motor (PL 16.9). If the problem persists, replace the Finisher PWB (PL 16.12).

A B

Replace the Finisher PWB (PL 16.12).

012-224 Rear Tamper Home Sensor Off Failure RAP

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

- Refer to BSD 12.4.
- 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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.9) 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

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 (PL 16.9) 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 16.9).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Rear Tamper Motor (PL 16.9). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-260 Eject Clamp Home Sensor ON Failure RAP

After the Eject Clamp started ascending, the Eject Clamp Home Sensor did not turn On within 500ms.

Initial Actions

Refer to BSD 12.7.

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 16.12).

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 16.7).

Replace the Finisher PWB (PL 16.12).

Alternately execute Component Control[012-081 Eject Motor FORWARD ON] and Component Control[012-082 Eject Motor REVERSE ON]. **The Eject Motor (PL 16.7) 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

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 (PL 16.7) between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 2Ohm.**

Y N

Replace the Eject Motor (PL 16.7).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-263 Rear Tamper Failure RAP

After the Rear Tamper started moving to the home position, the Rear Tamper Home Sensor did not turn On within 800ms.

Initial Actions

Refer to BSD 12.4.

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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.9) 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 (PL 16.9) 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 16.9).

Measure the voltage between the Finisher PWB (PL 16.12) P8848-2 (+) and GND (-), and between P8848-5 (+) and GND (-) (BSD 12.4 Flag 8). **The voltage is approx. +24VDC.**

Y N

Replace the Finisher PWB (PL 16.12).

Replace the Rear Tamper Motor (PL 16.9). If the problem persists, replace the Finisher PWB (PL 16.12).

A B

Replace the Finisher PWB (PL 16.12).

012-282 Eject Clamp Home Sensor Off Failure RAP

After the Eject Clamp started descending, the Eject Clamp Home Sensor did not turn Off within 200ms.

Initial Actions

- Refer to BSD 12.7.
- 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 16.12).

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 16.7).

Replace the Finisher PWB (PL 16.12).

Alternately execute Component Control[012-081 Eject Motor FORWARD ON] and Component Control[012-082 Eject Motor REVERSE ON]. **The Eject Motor (PL 16.7) 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

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 (PL 16.7) between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 2Ohm.**

Y N

Replace the Eject Motor (PL 16.7).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-283 Set Clamp Home Sensor On Failure RAP

After the Set Clamp started operation, the Set Clamp Home Sensor did not turn On within 200ms.

Initial Actions

- Refer to BSD 12.7.
- 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 16.12).

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 16.7).

Replace the Finisher PWB (PL 16.12).

Alternately execute Component Control[012-081 Eject Motor FORWARD ON] and Component Control[012-082 Eject Motor REVERSE ON]. **The Eject Motor (PL 16.7) 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 (PL 16.7) between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 2Ohm.**

Y N

Replace the Eject Motor (PL 16.7).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Execute Component Control[012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch (PL 16.5) 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 (PL 16.12) P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N

Replace the Set Clamp Clutch (PL 16.5). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-284 Set Clamp Home Sensor Off Failure RAP

After the Set Clamp completed operation, the Set Clamp Home Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 12.7.
- 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 16.12).

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 16.7).

Replace the Finisher PWB (PL 16.12).

Alternately execute Component Control[012-081 Eject Motor FORWARD ON] and Component Control[012-082 Eject Motor REVERSE ON]. **The Eject Motor (PL 16.7) 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 (PL 16.7) between J8801-2/5 (COM) and each point of J8801-1/3/4/6 (BSD 12.7 Flag 5). **The resistance is approx. 2Ohm.**

Y N

Replace the Eject Motor (PL 16.7).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Execute Component Control[012-086 Set Clamp Clutch ON]. **The Set Clamp Clutch (PL 16.5) 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 (PL 16.12) P8848-A10 (+) and GND (-). **The voltage is approx. +24VDC.**

Y N

Replace the Set Clamp Clutch (PL 16.5). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Eject Motor (PL 16.7). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-285 Finisher Error

There is a processing 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 16.12).

012-291 Stapler Failure RAP

- 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

- Refer to BSD 12.6.
- 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 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

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 (-), and between P8852-5 (+) and GND (-) (BSD 12.6 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 16.12).

Replace the Staple Assembly (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

A

Replace the Finisher PWB (PL 16.12).

012-293 Staple Front Corner Sensor On Failure RAP

- 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

- Refer to BSD 12.5.
- 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 16.12).

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 16.8).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.8) 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 16.8).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Staple Move Motor (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-294 Staple Front Corner Sensor Off Failure RAP

- 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

- Refer to BSD 12.5.
- 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 16.12).

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 16.8).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.8) 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 16.8).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.8).

Replace the Staple Move Motor (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-295 Staple Move Sensor On Failure RAP

- 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

- Refer to BSD 12.5.
- 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 16.12).

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 16.8).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.8) 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 16.8).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Staple Move Motor (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-296 Staple Move Sensor Off Failure RAP

- 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

- Refer to BSD 12.5.
- 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 16.12).

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 16.8).

Replace the Finisher PWB (PL 16.12).

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 (PL 16.8) 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 16.8).

Measure the voltage between the Finisher PWB (PL 16.12) 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 16.12).

Replace the Staple Move Motor (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-301 Finisher Top Cover Open RAP

The Finisher Top Cover is open.

Initial Actions

- Refer to BSD 12.1.
- 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 (PL 16.12) 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 16.12).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

012-302 Finisher Front Cover Open RAP

The Finisher Front Cover is open.

Initial Actions

- Refer to BSD 12.1.
- 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 (PL 16.12) 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 16.12).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

012-303 Finisher H-Transport Cover Open RAP

The Finisher H-Transport Cover is open.

Initial Actions

- Refer to BSD 12.2.
- 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 16.3).

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 16.3).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

012-901 Finisher H-Transport Entrance Sensor Static JAM RAP

Paper remains on the H-Transport Entrance Sensor.

Initial Actions

- Refer to BSD 12.2.
- 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 (PL 16.3) 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-902 H-Transport Exit Sensor Static JAM RAP

Paper remains on the H-Transport Exit Sensor.

Initial Actions

- Refer to BSD 12.2.
- 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-903 Paper Remains at Compiler Entrance Sensor RAP

Paper remains on the Compiler Entrance Sensor.

Initial Actions

Refer to BSD 12.3.

Remove foreign substances on the sensor.

Power OFF/ON

Procedure

Execute Component Control[012-150 Compile Entrance Sensor]. Actuate the Compiler Entrance Sensor (PL 16.11) 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 16.12).

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 16.11).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-905 Compile Paper Sensor Static JAM RAP

Paper remains on the Compile Paper Sensor.

Initial Actions

- Refer to BSD 12.4.
- Remove foreign substances on the sensor.
- Power OFF/ON

Procedure

Execute Component Control[012-151 Compile Paper Sensor]. Actuate the Compile Paper Sensor (PL 16.9) 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 16.12).

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 16.9).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

012-923 H-Transport Entrance SNR static JAM B RAP

During standby, paper was detected by the H-Transport Entrance Sensor.

Initial Actions

Refer to BSD 12.2.

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 (PL 16.3) 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 16.12).

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 16.3).

Replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12).

016-210 SW Option Failure (HDD Error) RAP

One of the SW option functions cannot be executed due to a HDD error or HDD not installed.

Initial Actions

Refer to BSD 16.1.

Procedure

Check or replace the HDD (PL 9.2).

016-211 SW Option Failure (System memory Low) RAP

One of the SW option functions cannot be executed due to insufficient System Memory capacity.

Initial Actions

Refer to BSD 16.1.

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 SW Option Failure (Page Memory Low) RAP

One of the SW option functions cannot be executed due to insufficient Page Memory capacity.

Initial Actions

Refer to BSD 16.1.

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 SW Option Failure (Printer CARD Not Exist) RAP

One of the SW option functions cannot be executed due to a PRT_CARD error or PRT_CARD not installed.

Initial Actions

Refer to BSD 16.1.

Procedure

Check or install the PRT CARD.

016-214 SW Option Failure (Fax Card Error) RAP

One of the FAX/ADDRESSBOOK_EXTEND functions cannot be executed due to a FAX_CARD error or FAX_CARD not installed.

Initial Actions

Refer to BSD 16.1, 17.1.

Procedure

Check or install the FCB PWB (PL 9.3).

016-215 SW Option Failure RAP

Functions such as scanner cannot be executed due to an option pwb error.

Initial Actions

Refer to BSD 16.1.

Procedure

Check installation and electrical connections of PWBs on PL 9.1, PL 9.2, and PL 9.3.

016-311 Scanner Not Installed RAP

The system detected that the scanner was not installed.

Initial Actions

Refer to BSD 16.1.

Procedure

Ensure ribbon cable is connected to P/J 320 on ESS PWB (PL 9.2).

NOTE: *FAX box may be removed for access (PL 9.3).*

If the problem persists, check the connections on the IIT/IPS PWB (PL 11.3).

016-315 IIT Interface Failure RAP

An error was detected in the IF between the IT and the IOT.

Procedure

Check the connection of each connector between the IIT and the IOT.

Replace the IIT/IPS PWB (PL 11.3). If the problem persists, replace the MCU PWB (PL 9.1).

016-316 Page Memory Not Detected RAP

The system detected that the Page Memory (Standard) of the scanner was not installed.

Initial Actions

Refer to BSD 16.1.

Procedure

Ensure P/J's on the ESS PWB (PL 9.2) and the IIT/IPS PWB (PL 11.3) are securely connected.

Pull out and install the Printer PWB if present..

016-317 Page Memory Broken- Standard RAP

The system detected an error in the Page Memory (Standard) of the scanner.

Initial Actions

Refer to BSD 16.1.

Procedure

Ensure P/J's on the ESS PWB (PL 9.2) and the IIT/IPS PWB (PL 11.3) are securely connected.

Pull out and install the Printer PWB if present.

016-318 Page Memory Error- Option RAP

The system detected an error in the Page Memory (Option) of the scanner.

Initial Actions

Refer to BSD 16.1.

Procedure

Pull out and install 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 Failure RAP

An error was detected at System Check Fax.

Initial Actions

Refer to BSD 16.1, 17.1.

Procedure

Pull out and install the FAX PWB.

Check that P/Js on FAX PWB are secure.

016-322 JBA Account Full RAP

The accumulated accounting data reached the specified value (15000).

Initial Actions

Refer to BSD 16.1.

Procedure

After an external Accounting Server has read the accounting data, switch the power Off then On.

016-450 SMB Host name duplicated RAP

A PC of the same host name exists on the network.

Initial Actions

Refer to BSD 16.1.

Procedure

Refer customer to Systems Administrator Guide headings:

- Information Checklist
- Changing the Settings
- Setting Format of config.txt

016-454 DNS renewal Failure of dynamic RAP

DNS Dynamic Update failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

016-455 SNTP Server Time-out RAP

There is no response from the SNTP server within the specified time (60sec).

Initial Actions

Refer to BSD 16.1.

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 "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 SNTP time asynchronous RAP

A standard time synchronized source message and an asynchronous message was received from the SNTP server.

Initial Actions

Refer to BSD 16.1.

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 "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.

016-503 SMTP Server Failure for Redirector RAP

The Redirector cannot resolve the SMTP Server address.

Initial Actions

Refer to BSD 16.1.

Procedure

Refer customer to System Administrator Guide headings

- E-mail
- Information Checklist
- SMTP Server Settings
- Specify the correct SMTP Server name or specify the IP address.

016-504 POP Server Failure for Redirector RAP

The Redirector cannot resolve the POP Server address.

Initial Actions

Refer to BSD 16.1.

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 POP Authentication Failure for Redirector RAP

The Redirector cannot pass POP authentication.

Initial Actions

Refer to BSD 16.1.

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

016-600 Key Operator Authentication Locked RAP

The number of incorrect KO (Key Operator) log in attempts reached the limit.

Procedure

NOTE: *Default is 5 events. dC131 NVM Read/Write [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 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. dC131 NVM Read/Write [700-564] can be set 1 to 600 users.*

If required, refer to GP 3 to reset password to 11111 default if the System Administrator ID is unavailable.

016-701 Out of ART EX Memory RAP

Insufficient memory was detected while using the ART EX.

Initial Actions

Refer to BSD 16.1.

Procedure

As the PLW memory is fixed, decreasing the resolution may reduce the PLW memory.

016-702 Out of Page Buffer RAP

Insufficient Print Page Buffer was detected.

Initial Actions

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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 is Full RAP

When accessing the HDD, the system detected that the mailbox was full (it exceeded the maximum number of documents per box) and aborted the job.

Initial Actions

Refer to BSD 16.1.

Procedure

Delete unnecessary documents and then repeat the operation.

Refer customer to Mailbox section in User Guide.

016-705 Secure Print Failure RAP

Registration for Secure Print failed because Security Storage cannot be done without a HDD.

Initial Actions

Refer to BSD 16.1.

Procedure

Check HDD installation (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 Max. User Number Exceeded RAP

When accessing the HDD, the system detected that the job exceeded the maximum number for users for Proof Prints and aborted the job.

Initial Actions

Refer to BSD 16.1.

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 Failure RAP

Proof Print Registration failed because it cannot be stored without a HDD.

Initial Actions

Refer to BSD 16.1.

Procedure

Check whether the HDD is installed.

If the problem occurred at installation, check whether the operations for Proof Print are correct.

016-708 HD Full by Annotation/Watermark image 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

Refer to BSD 16.1.

Procedure

Expand the capacity of the HDD partition of the relevant service.

016-709 ART EX Command Failure RAP

An ART EX command error occurred during PLW processing.

Initial Actions

Refer to BSD 16.1.

Procedure

Cancel the job and execute the command again.

016-710 Delayed Print Failure 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

Refer to BSD 16.1.

Procedure

Install the HDD (PL 9.2).

016-711 E-mail transmission size limit over 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.

Initial Actions

Refer to BSD 16.1, 17.1.

Procedure

Decrease the send parameter for resolution (send image quality) and resend.

Reduce the image using the send parameter and resend (eg. 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 Under PANTHER Capacity (I-Formatted) RAP

The processed data is too small (the specified range for the document is too small).

Initial Actions

Refer to BSD 16.1.

Procedure

Increase the specified area of the document size.

016-716 TIFF Data Overflow RAP

The files to be spooled in TIFF exceeded the disk capacity.

Initial Actions

Refer to BSD 16.1.

Procedure

Expand the HDD (PL 9.2) or increase the available capacity of the HDD (PL 9.2).

016-718 Out of PCL6 Memory RAP

Insufficient memory was detected while using the ART EX.

Initial Actions

Refer to BSD 16.1.

Procedure

As the PLW memory is fixed, decreasing the resolution may reduce the PLW memory.

016-719 Out of PCL Memory RAP

Insufficient memory was detected while using the PCL.

Initial Actions

Refer to BSD 16.1.

Procedure

Increase the PCL Memory size.

016-720 PCL Command Failure RAP

A PCL command error occurred during PCL processing.

Initial Actions

Refer to BSD 16.1.

Procedure

Cancel the job and execute the command again.

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.

Initial Actions

Refer to BSD 16.1.

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 Job cancel by failed staple position RAP

The Staple Position could not be determined.

Initial Actions

Check the Staple Position.

Procedure

Refer customer to following User Guide headings:

- Staple Position
- Image Rotation - Rotation Direction Screen

016-728 Unsupported TIFF Data RAP

The data contains a tag that is not set in the Image File Expansion Library.

Initial Actions

Refer to BSD 16.1.

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

016-729 TIFF Data Size too Big RAP

The specified settings exceed the upper limit of the valid number of colors and pixels.

Initial Actions

Refer to BSD 16.1.

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 Unsupported ART Command RAP

A command not supported by the ART was detected.

Initial Actions

Refer to BSD 16.1.

Procedure

Delete the command not supported by the ART from the data and print again.

016-731 Invalid TIFF Data RAP

The TIFF data is truncated.

Initial Actions

Refer to BSD 16.1.

Procedure

Rerun the job.

If the problem persists, 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

016-732 Form not registered RAP

The decomposer detected that the form specified in emulation is not registered.

Initial Actions

Refer to BSD 16.1.

Procedure

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

Refer to BSD 16.1.

Procedure

No action necessary. Rerun the job.

016-746 Unsupported PDF File RAP

There was transparency or JBIG2 in a PDF version 1.3 file.

Procedure

Ask the customer to print using the driver from Acrobat Reader.

016-748 HD Full RAP

When accessing a mailbox, Full status was detected and the job was aborted.

Initial Actions

Refer to BSD 16.1.

Procedure

Refer customer to Mailbox section in User Guide to make available more hard drive space.

016-749 JCL Syntax Error RAP

A syntax error of the JCL/PJL command was detected.

Initial Actions

Refer to BSD 16.1.

Procedure

Refer customer to User Guide section Change Print Settings.

016-751 PDF Failure RAP

Syntax error, use of undefined commands, parameter error, broken PDF file or internal error of the PDF Decomposer was detected on PDF Bridge processing.

Initial Actions

Refer to BSD 16.1.

Procedure

Ask the customer to print using the driver from Acrobat Reader.

016-752 PDF Short Of Memory RAP

Insufficient memory was detected during PDF Bridge processing.

Initial Actions

Refer to BSD 16.1.

Procedure

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

When processing a PDF file that is protected by a password, the password in the UI panel settings and the password specified using XPJL (set in the Contents Bridge Utility) do not match.

Initial Actions

Refer to BSD 16.1.

Procedure

Specify the correct password using the UI or the Contents Bridge.

016-754 PDF LZW Not Installed RAP

The PDF Bridge tried to process the PDF file compressed in LZW without the [Contents Bridge Expansion Kit] installed.

Initial Actions

Refer to BSD 16.1.

Procedure

Install the [Contents Bridge Expansion Kit].

Print using the driver from Acrobat Reader.

016-755 PDF Print Prohibited RAP

The system processed a print prohibited PDF file.

Initial Actions

Refer to BSD 16.1.

Procedure

Use Acrobat 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 for registered users reached the limit.

Procedure

Ask the key operator or system or account administrator to raise the page limit.

016-760 PostScript Decompose Failure RAP

An error occurred in Decompose processing.

Initial Actions

Refer to BSD 16.1.

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

Image enlargement error.

Initial Actions

Refer to BSD 16.1.

Procedure

Print in Fast Print mode.

If printing still cannot be processed, use Print Guarantee mode.

016-762 Print LANG Not Installed RAP

The print language is not installed.

The system requested for functions (print language, print utility, etc.) that were not installed. (The decomposer specified in the PJL or the Auto SW is not installed.)

Initial Actions

Refer to BSD 16.1.

Procedure

Fix and select the decomposer from the Operation Panel or with a command.

016-764 SMTP Server Connection Failure RAP

SMTP Server Response Code: 421 or 451

Initial Actions

Refer to BSD 16.1.

Procedure

Repeat the operation.

016-765 SMTP Server HDD Full RAP

SMTP Server Response Code: 452

Initial Actions

Refer to BSD 16.1.

Procedure

Retrieve E-mail in the Server HDD. Reconsider the Server capacity.

016-766 SMTP Server File System RAP

SMTP Server Response Code: 552

Initial Actions

Refer to BSD 16.1.

Procedure

Contact the SMTP Server Administrator and ask the administrator to reconsider the Server capacity limit.

016-767 Invalid E-mail Address RAP

SMTP Server Response Code: 550 or 551

Initial Actions

Refer to BSD 16.1.

Procedure

Check the destination of the E-mail.

016-768 Invalid Sender Address RAP

There was an error received from the SMTP Protocol “MAIL FROM:” command.

Initial Actions

Refer to BSD 16.1.

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

ESMTP Protocol “EHLO” Command Response Code: 502

Or, “DSN” does not appear in the “Supported Command List” received from the Server.

Initial Actions

Refer to BSD 16.1.

Procedure

Enable the most appropriate ESMTP function in the SMTP Server. Or, send the E-mail with sent confirmation turned off.

016-771 Scan Data Repository ERR (DNS address) RAP

An error occurred while recalling the DNS Resolution Library.

Initial Actions

Refer to BSD 16.1.

Procedure

Check the connection to the DNS. Or, check whether the Scan Data Repository domain name has been registered.

016-772 Scan Data Repository Error (DNS Library) RAP

An error occurred while recalling the DNS Resolution Library.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the DNS address. Or, set the Scan Data Repository address using IP address.

016-773 Invalid IP Address RAP

When connection fails, the valid flag of the resource IP address is “False”.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the DHCP environment. Or, set a fixed IP address in the machine.

016-774 HD Full - Compression Convert RAP

HDD Full occurred (partition #1) when the S-Formatted converted JBIG compressed images into the MH system.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Free up some HDD space and then repeat the operation.

016-775 HD Full - Image Convert RAP

Insufficient HDD capacity was detected during image conversion processing in S-Formatted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Free up some HDD space and then repeat the operation.

016-776 Image Conversion Error RAP

Insufficient HDD capacity was detected during image conversion processing in S-Formatted.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Attempt retrieval using forced FAX Polling.

016-777 Image Conversion Error RAP

Insufficient HDD capacity was detected during image conversion processing in S-Formatted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the HDD (PL 9.2).

016-778 HD Full - Scan Image Convert RAP

Insufficient HDD capacity was detected during scanned image conversion processing in I-Formatted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Free up some HDD space and scan.

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.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

016-780 HD Access Error - Image Convert RAP

A HDD access error was detected during scanned image conversion processing in I-Formatted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the HDD (PL 9.2), free up some HDD space and scan.

016-781 Scan Server Connect Error RAP

The system failed to establish connections with the FTP Server.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the “Sub-net Mask” and “Gateway” of the main processor correctly.

From the destination server, use “ping” to check that the machine can be “seen”.

From a Windows95 or UNIX machine, check that FTP connection to the destination server is possible.

016-782 Scan Server Login Error RAP

Login to the Server was not possible during Scan to Server file transfer.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the login name and password in the destination server.

Set the attributes of the Job Template file correctly.

From a client PC, set the same account as the above as a resource using CW.

016-783 Invalid Server Path RAP

The specified path cannot be found during Scan to Server file transfer.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the attributes of the Job Template file correctly.

016-784 Server Write Error RAP

The Server cannot be written to during Scan to Server file transfer.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check that “Write Authorization” is established in the Server directory.

Free up space on the Server disk.

016-785 Server HD Full RAP

The Server File System became full during Scan to Server file transfer.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check that “Write Authorization” is established in the Server directory.

Free up space on the Server disk.

016-786 HD Full-Scan Write Error RAP

A temporary file in Scan to Server file transfer cannot be written to the internal HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

The HDD may be temporarily full with print jobs. Wait and retry.

Format the HDD.

Replace the HDD (PL 9.2).

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.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the contents of the attributes (string Repository Name) in the Job Template file.

016-788 Retrieve to Browser Failure RAP

The job was aborted, canceled or timed out by the device or the job was canceled by the client.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Improve the connection status of the network.

Check whether there is a problem such as duplicated IP addresses.

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.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Decrease the send parameter for resolution (send image quality) and resend.

Reduce the image using the send parameter and resend (eg. A3 to A4).

Change the [Upper Limit of Data Size] setting in the Specifications Settings Screen on the UI Panel (default 2MB recommended).

016-791 File Retrieve Failure RAP

The system failed to retrieve information regarding the properties of the image file.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the Server directory structure and the file access rights.

016-792 Specified Job Not Found RAP

When printing the report for the job, the Job Log for the job specified in the Control Panel could not be retrieved.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

The specified Job Log does not exist. Execute only for jobs with an existing Job Log.

016-793 MF I/O HD Full RAP

A MFIO Task detected HDD Full.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

016-798 No Trust Marking Option RAP

A HDD unavailable error was returned when the Decomposer recalled the S-Image Library.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Install the HDD (PL 9.2).

016-799 PLW Print Instruction Failure RAP

Print error was detected in the PLW.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

016-981 HDD access error RAP

HDD access failed.

Initial Actions

Power OFF/ON

If user intervention does not resolve the problem, expand the HDD partition size of the relevant service.

Procedure

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

016-982 HDD access error 2 RAP

HDD was determined to be Full due to collate, stored or interrupted jobs.

Initial Actions

Power OFF/ON

Expand the HDD partition size of the relevant service.

Procedure

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

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.

Initial Actions

Power OFF/ON

Decrease the Send parameter for resolution (send image quality) and resend.

Reduce the image using the Send parameter and resend (eg. A3 to A4).

Change the upper limit setting for data size in the System Settings screen on the UI Panel (default 2MB recommended).

Procedure

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

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.

Initial Actions

Refer to BSD 3.7

Procedure

Check the connections and P/Js on the ESS PWB (PL 9.2) and check that any accessory PWB's are installed securely.

If the problem persists, reload Firmware (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.

Initial Actions

Refer to BSD 3.7.

Procedure

Check that the System Data 850-007 is set correctly.

If it is set correctly, perform the following:

Reload Firmware (ADJ 9.3.1).

If the problem persists, pull out and insert the EPSV board and check the P/Js.

If the problem persists, replace the ESS PWB (PL 9.2).

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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

Refer to BSD 3.7.

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 Failure 1 RAP

An abnormal parameter is set for the send function.

Initial Actions

Refer to BSD 3.1, 16.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists, reload Firmware (ADJ 9.3.1).

024-341 IOT-ESS Communication Failure 2 RAP

A transmission failure occurred, the Sequencing number of the sent Message Packet is incorrect.

Initial Actions

Refer to BSD 3.1, 16.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

If the problem persists, replace the MCU PWB (PL 9.1).

024-342 IOT-ESS Communication Failure 3 RAP

A transmission failure occurred, the Packet number of the sent Message Packet is incorrect.

Initial Actions

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-343 IOT-ESS Communication Failure 4 RAP

A transmission failure occurred, the Message Length of the sent Message Packet is incorrect.

Initial Actions

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-345 IOT-ESS Communication Failure 5 RAP

A transmission failure occurredm the Check Code of the sent Message Packet is incorrect.

Initial Actions

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-346 IOT-ESS Communication Failure 6 RAP

A transmission failure occurred, a parity error was detected by hardware in the IOT.

Initial Actions

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-347 IOT-ESS Communication Failure 7 RAP

The ESS PWB detected a communication error between the IOT and the ESS.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-348 IOT-ESS Communication Failure 8 RAP

The ESS PWB detected a communication error between the IOT and the ESS.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-349 IOT-ESS Communication Failure 9 RAP

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

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-350 IOT-ESS Communication Failure 10 RAP

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

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-351 IOT-ESS Communication Failure 11 RAP

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

Refer to BSD 3.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-354 IOT-ESS Communication Failure 14 RAP

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

Refer to BSD 3.1.

Procedure

Procedure
Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-356 IOT-ESS Communication Failure 16 RAP

A transmission failure is received, an overrun error was detected by hardware of the UART.

Initial Actions

Refer to BSD 3.1, 16.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-362 Page Sync Illegal Start RAP

During IOT output, before the output data was written to FIFO Full, Page Sync became active. Even though the system is not easily affected by noise, extreme noise may be the cause.

Initial Actions

Refer to BSD 3.1, 16.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-363 Page Sync Illegal Stop RAP

During IOT output, before output in the specified size, Page Sync was disabled.

Initial Actions

Move away machines that are noisy.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

If the problem persists reload Firmware (ADJ 9.3.1).

024-364 DMA Transfer Failure RAP

During Reduce/Enlarge, reduction/enlargement was not completed even though the specified data was entered.

Procedure

NOTE: *There is a high probibility that the cause is faulty firmware or data corruption (DIMM or HDD).*

Reload Firmware (ADJ 9.3.1).

Perfoorm Hard Disk Diagnostic Program. If the problem persists, replace the HDD (PL 9.2).

Replace the DIMM (PL 9.2).

024-367 Decompress Other Failure RAP

Incorrect LINE SYNC was detected.

Initial Actions

Refer to BSD 3.1, 16.1.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

Replace the DIMM (PL 9.2).

Replace the HDD (PL 9.2).

Replace the ESS PWB (PL 9.2).

024-368 PCI Error RAP

PCI access error occurred due to a faulty PCI bus.

Procedure

Check that P/Js 402 on the MCU PWB (PL 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (REP 9.2.1).

024-370 Marker Code Detection Failure RAP

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 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.
2. Replace the DIMM (PL 9.2).
3. Perform Hard Disk Diagnostic Program. If the problem persists, replace the HDD (PL 9.2).
4. Replace the ESS PWB (PL 9.2).

Perform following as required:

1. Reload Firmware (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 Failure 21 RAP

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 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (REP 9.2.1).

Replace the MCU PWB (REP 9.1.1).

024-372 IOT-ESS Communication Failure 22 RAP

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 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

024-373 IOT-ESS Communication Failure 23 RAP

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 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

024-375 IOT-ESS Communication Failure 24 RAP

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 9.1) and P/J 310 on the ESS PWB (PL 9.2) are securely connected.

Reload Firmware (ADJ 9.3.1).

024-746 Print Request Failure-Paper RAP

The paper type specified by the job is incompatible with options such as Paper Tray, Output Tray, Automatic 2 Sided Print/Staple.

Procedure

A menu setup is incorrect. Refer customer to following UserGuide heading Paper and Other Media and Paper Type in heading Setup Menu.

024-747 Print Instruction Failure RAP

The specified print parameter is abnormal.

Procedure

The center tray will not receive output, and output goes to Finisher.

Y N

Call for next level of support.

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 742-100
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 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 **Extended Tray Module** and 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

After feeding from Tray 1, the lengths detected by the Registration Sensor and the Tray 1 Size Switch did not match.

Initial Actions

- Refer to BSD 8.7.
- 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 2.4). **The display changes.**

Y N

Check the connection of P/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 P403B-13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P403B-8 (+) and GND (-) (BSD 8.7 Flag 1).

A

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-911 Tray 2 size mismatch RAP

After feeding from Tray 2, the lengths detected by the Registration Sensor and the Tray 2 Size Switch did not match.

Initial Actions

- Refer to BSD 8.7.
- 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 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 2.4). **The display changes.**

Y N

Check the connection of P/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 P403B-13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P403B-8 (+) and GND (-) (BSD 8.7 Flag 1).

A

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-912 Tray 3 size mismatch RAP

After feeding from Tray 3, the lengths detected by the Registration Sensor and the Tray 3 Size Switch did not match.

Initial Actions

- Refer to BSD 8.7.
- 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 12.1/PL 13.1) 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 2.4). **The display changes.**

Y N

Check the connection of P/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 P403B-13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P403B-8 (+) and GND (-) (BSD 8.7 Flag 1).

A

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-913 Tray 4 size mismatch RAP

After feeding from Tray 4, the lengths detected by the Registration Sensor and the Tray 4 Size Switch did not match.

Initial Actions

- Refer to BSD 8.7.
- 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 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch (PL 12.1/PL 13.1) 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 2.4). **The display changes.**

Y N

Check the connection of P/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 P403B-13 (+) and GND (-) (BSD 8.7 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P403B-8 (+) and GND (-) (BSD 8.7 Flag 1).

A

Actuate the Registration Sensor with paper. **The voltage changes.**

Y N

Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-916 Mix Full Stack RAP

The output paper stacked on the Finisher Stacker Tray reaches capacity (for the same paper size only).

Initial Actions

- Refer to BSD 12.8.

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 16.12).

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 16.5).

Replace the Finisher PWB (PL 16.12).

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

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 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-917 Stacker Tray Staple Set Over Count RAP

The number of stapled copies exceeded the capacity of the Stacker Tray.

Initial Actions

- Refer to BSD 12.9.

Procedure

Check the connection of each Finisher PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **[024-917] reoccurs.**

Y **N**

End

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

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 the connection of each Exit PWB (PL 9.1) connector.

Check that the P/Js on the MCU PWB (REP 9.1.1) are securely connected.

024-946 Tray 1 Out Of Place RAP

The Tray 1 Paper Size Switch detected no tray.

Initial Actions

- Refer to BSD 7.1.
- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

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 Tray 2 Out Of Place RAP

The Tray 2 Paper Size Switch detected no tray.

Initial Actions

- Refer to BSD 7.2.
- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

Remove Trays 1 and 2. Replace Tray 1 with Tray 2. **[024-947] occurs.**

Y N

Replace the faulty part of the Tray 2 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-948 Tray 3 Out Of Place RAP

The Tray 3 Paper Size Switch detected no tray.

Initial Actions

- Refer to BSD 7.3/7.5.
- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 3 with Tray 4. **[024-948] occurs.**

Y N

Replace the faulty part of the Tray 3 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 3 Actuator. **The Tray 3 Actuator is not distorted.**

Y N

Replace the faulty part of the Tray 3 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-949 Tray 4 Out Of Place RAP

The Tray 4 Paper Size Switch detected no tray.

Initial Actions

- Refer to BSD 7.4/7.6.
- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 3 with Tray 4. **[024-949] occurs.**

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 4 Actuator. **The Tray 4 Actuator is not distorted.**

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-950 Tray 1 Empty RAP

Tray 1 has run out of paper.

Initial Actions

- Refer to BSD 7.7.

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[071-201 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/J601 and P/J409. **P/J101, P/J601 and P/J409 are connected correctly.**

Y N

Connect P/J101, P/J601 and P/J409.

Check the wire between J101 and J409 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 P409A-10 (+) and GND (-) (BSD 7.7 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P409B-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 9.1).

Replace the MCU PWB (PL 9.1).

024-951 Tray 2 Empty RAP

Tray 2 has run out of paper.

Initial Actions

- Refer to BSD 7.8.

Procedure

Check the installation of the Tray 2 No Paper Sensor (PL 2.3) 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[071-202 Tray 2 No Paper Sensor]. Manually activate the Tray 2 No Paper Sensor (PL 2.3). **The display changes.**

Y N

Check the connections of P/J103, P/J602 and P/J409. **P/J103, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J103, P/J602 and P/J409.

Check the wire between J103 and J409 for an open circuit or a short circuit (BSD 7.8 Flag 4/Flag 5). **The wire between J103 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 P409B-10 (+) and GND (-) (BSD 7.8 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P409B-12 (+) and GND (-) (BSD 7.8 Flag 4).

Activate the actuator of the Tray 2 No Paper Sensor (PL 2.3). **The voltage changes.**

Y N

Replace the Tray 2 No Paper Sensor (PL 2.3).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-952 Tray 3 Empty RAP

Tray 3 has run out of paper.

Initial Actions

- Refer to BSD 7.9/7.11.

Procedure

Check the installation of the Tray 3 No Paper Sensor (PL 12.3/PL 13.6) 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[071-203 Tray 3 No Paper Sensor]. Manually activate the Tray 3 No Paper Sensor (PL 12.3/PL 13.6). **The display changes.**

Y N

Check the connections of P/J102B, P/J661B and P/J549. **P/J102B, P/J661B and P/J549 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 4/Flag 5 / BSD 7.11 Flag 4/Flag 5). **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-B10 (+) and GND (-) (BSD 7.9 Flag 5 / BSD 7.11 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P549-B12 (+) and GND (-) (BSD 7.9 Flag 4 / BSD 7.11 Flag 4).

Activate the actuator of the Tray 3 No Paper Sensor (PL 12.3/PL 13.6). **The voltage changes.**

Y N

Replace the Tray 3 No Paper Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

024-953 Tray 4 Empty RAP

Tray 4 has run out of paper.

Initial Actions

- Refer to BSD 7.10/7.12.

Procedure

Check the installation of the Tray 4 No Paper Sensor (PL 12.3/PL 13.6) and the operation of the actuator. **The Tray 4 Level Sensor is installed correctly and the actuator works.**

Y N

Reinstall the Tray 4 Level Sensor.

Execute Component Control[071-204 Tray 4 No Paper Sensor]. Manually activate the Tray 4 No Paper Sensor (PL 12.3/PL 13.6). **The display changes.**

Y N

Check the connections of P/J102A, P/J661A and P/J549. **P/J102A, P/J661A and P/J549 are connected correctly.**

Y N

Connect P/J102A, P/J661A 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 / 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-A10 (+) and GND (-) (BSD 7.10 Flag 5 / BSD 7.12 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P549-A12 (+) and GND (-) (BSD 7.10 Flag 4 / BSD 7.12 Flag 4).

Activate the actuator of the Tray 4 No Paper Sensor (PL 12.3/PL 13.6). **The voltage changes.**

Y N

Replace the Tray 4 No Paper Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

024-954 MPT Empty RAP

The MPT has run out of paper.

Initial Actions

- Refer to BSD 7.13.

Procedure

Check the installation of the MPT No Paper Sensor (PL 7.1) and the operation of the actuator.
The MPT No Paper Sensor is installed correctly and the actuator works.

Y N

Reinstall the MPT No Paper Sensor.

Execute Component Control[071-205 MPT No Paper Sensor]. Manually activate the MPT No Paper Sensor (PL 7.1). **The display changes.**

Y N

Check the connections of P/J108, P/J605 and P/J411. **P/J108, P/J605 and P/J411 are connected correctly.**

Y N

Connect P/J108, P/J605 and P/J411.

Check the wire between J108 and J411 for an open circuit or a short circuit (BSD 7.13 Flag 3/Flag 4). **The wire between J108 and J411 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 P411-6 (+) and GND (-) (BSD 7.13 Flag 4). The voltage is approx. +5VDC.

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P411-8 (+) and GND (-) (BSD 7.13 Flag 3).

Activate the actuator of the MPT No Paper Sensor (PL 7.1). **The voltage changes.**

Y N

Replace the MPT No Paper Sensor (PL 7.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

024-958 MPT Size Failure RAP

The MPT is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.13.
- Check the operation of the MPT Guide.

Procedure

Check the installation and operation of the MPT Guide. **The MPT Guide is installed correctly and the actuator works.**

Y N

Reinstall the MPT Guide.

Measure the voltage between the MCU PWB P411-3 (+) and GND (-) (BSD 7.13 Flag 1).

Manually operate the MPT Guide. **As the MPT Guide moves, the voltage changes accordingly.**

Y N

Check the connections of P/J107, P/J609, P/J605 and P/J411. **P/J107, P/J609, P/J605 and P/J411 are connected correctly.**

Y N

Connect P/J107, P/J609, P/J605 and P/J411.

Check the wire between J107 and J411 for an open circuit or a short circuit (BSD 7.13 Flag 1/Flag 2). **The wire between J107 and J411 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 P411-1 (+) and GND (-) (BSD 7.13 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the MPT Paper Size Sensor (PL 7.3).

Replace the MCU PWB (PL 9.1).

024-959 Tray 1 size mismatch RAP

Paper is loaded in Tray 1 but the tray is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.1.
- Check the operation of the guide.

Procedure

Remove Trays 1 and 2. Replace Tray 1 with Tray 2. **[024-959] 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 Assembly RAP).

024-960 Tray 2 size mismatch RAP

Paper is loaded in Tray 2 but the tray is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.2.
- Check the operation of the guide.

Procedure

Remove Trays 1 and 2. Replace Tray 2 with Tray 1. **[024-960] occurs.**

Y N

Replace the faulty part of the Tray 2 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-961 Tray 3 size mismatch RAP

Paper is loaded in Tray 3 but the tray is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.3/7.5.
- Check the operation of the guide.

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 3 with Tray 4. **[024-961] occurs.**

Y N

Replace the faulty part of the Tray 3 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 3 Actuator. The Tray 3 Actuator is not distorted.

Y N

Replace the faulty part of the Tray 3 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-962 Tray 4 size mismatch RAP

Paper is loaded in Tray 4 but the tray is unable to detect the paper size.

Initial Actions

- Refer to BSD 7.4/7.6.
- Check the operation of the guide.

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 4 with Tray 3. [024-962] occurs.

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 4 Actuator. **The Tray 4 Actuator is not distorted.**

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

024-964 Stapler sheets counts over RAP

The number of sheets to be stapled exceeded the maximum.

Initial Actions

- Refer to BSD 3.4.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 3/ Flag 4). **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 P416A-3 (+) and GND (-) (BSD 3.4 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-965 ATS/APS No Paper (IOT detect) RAP

No paper is loaded in the tray.

Initial Actions

- Refer to BSD 7.7/7.8/7.9/7.10/7.11/7.12.
- Reload the relevant tray.

Procedure

Check the actuator of the relevant No Paper Sensor (PL 2.3/PL 12.3/PL 13.6). **The actuator is not distorted or damaged.**

Y N

Replace the actuator.

Actuate the actuator of the relevant No Paper Sensor (PL 2.3/PL 12.3/PL 13.6).

Tray 1: Component Control[071-201 Tray 1 No Paper Sensor]

Tray 2: Component Control[071-202 Tray 2 No Paper Sensor]

Tray 3: Component Control[071-203 Tray 3 No Paper Sensor]

Tray 4: Component Control[071-204 Tray 4 No Paper Sensor]

The display changes.

Y N

Check the connections of the following connectors:

Tray 1: P/J101, P/J601, P/J409

Tray 2: P/J103, P/J602, P/J409

Tray 3: P/J102B, P/J661B, P/J549

Tray 4: P/J102A, P/J661A, P/J549

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 J101 and J409 (BSD 7.7 Flag 4/Flag 5)

Tray 2: Between J103 and J409 (BSD 7.8 Flag 4/Flag 5)

Tray 3: Between J102B and J549 (BSD 7.9 Flag 4/Flag 5 / BSD 7.10 Flag 4/Flag 5)

Tray 4: Between J102A and J549 (BSD 7.11 Flag 4/Flag 5 / BSD 7.12 Flag 4/Flag 5)

The relevant harnesses 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 following points (+) and GND (-).

Tray 1: MCU PWB P409A-10 (BSD 7.7 Flag 5)

Tray 2: MCU PWB P409B-10 (BSD 7.8 Flag 5)

Tray 3: TM PWB P549-B10 (BSD 7.9 Flag 5 / BSD 7.10 Flag 5)

Tray 4: TM PWB P549-A10 (BSD 7.11 Flag 5 / BSD 7.12 Flag 5)

The voltage is approx. +5VDC.

Y N

Replace the relevant PWB (MCU PWB (PL 9.1) or the Tray Module PWB (PL 12.6/PL 13.8).

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-B12 (BSD 7.9 Flag 4 / BSD 7.10 Flag 4)

Tray 4: TM PWB P549-A12 (BSD 7.11 Flag 4 / BSD 7.12 Flag 4)

Activate the actuator of the relevant No Paper Sensor (PL 2.3/PL 12.3/PL 13.6). **The voltage changes.**

Y N

Replace the relevant No Paper Sensor (PL 2.3/PL 12.3/PL 13.6).

Replace the relevant PWB (MCU PWB (PL 9.1) or Tray Module PWB (PL 12.6/PL 13.8).

For Tray 1 or Tray 2, replace the MCU PWB (PL 9.1).

For Tray 3 or Tray 4, replace the Tray Module PWB (PL 12.6/PL 13.8).

A

024-966 ATS/APS No Destination Error RAP

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 Different width Mix Paper detect (Stapler job) RAP

Paper Width Mix was detected during stapling.

Initial Actions

- Refer to BSD 3.4.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 3/ Flag 4). **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 4). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-976 Finisher Staple Status Failed RAP

- 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

Refer to BSD 12.6.

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 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

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 16.12).

Replace the Staple Assembly (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-977 Stapler Feed Ready Failure RAP

When starting Staple, Staple Ready Sensor Off was detected.

Empty stapling was within 13 times.

Initial Actions

Refer to BSD 12.6.

Reload the Staple Cartridge.

Procedure

Execute Component Control[012-243]. 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 16.12).

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 16.12).

Replace the Staple Assembly (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-979 Stapler Near Empty RAP

- The Staple Pin is nearly empty.
- The cartridge has not been installed.

Initial Actions

- Refer to BSD 12.6.

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 16.12).

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 16.12).

Replace the Staple Assembly (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-980 Finisher Stacker Tray Full RAP

The output paper stacked on the Finisher Stacker Tray reaches capacity (for mixed paper size).

Initial Actions

- Refer to BSD 12.8.

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 16.12).

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 16.5).

Replace the Finisher PWB (PL 16.12).

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 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

A B

024-982 Stacker Lower Safety warning RAP

- 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

- Refer to BSD 12.8.

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 16.12).

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 16.5).

Replace the Finisher PWB (PL 16.12).

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

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 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

024-985 MPT Feed Failure RAP

The job was aborted during MPT feed.

Initial Actions

- Refer to BSD 7.13.
- Check the operation of the MPT Guide.

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 MPT Guide. **The MPT Guide is installed correctly and the actuator works.**

Y N

Reinstall the MPT Guide

Measure the voltage between the MCU PWB P411-3 (+) and GND (-) (BSD 7.13 Flag 1).

Manually operate the MPT Guide. **As the MPT Guide moves, the voltage changes accordingly.**

Y N

Check the connections of P/J107, P/J609, P/J605 and P/J411. **P/J107, P/J609, P/J605 and P/J411 are connected correctly.**

Y N

Connect P/J107, P/J609, P/J605 and P/J411.

Check the wire between J107 and J411 for an open circuit or a short circuit (BSD 7.13 Flag 1/Flag 2). **The wire between J107 and J411 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 P411-1 (+) and GND (-) (BSD 7.13 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the MPT Paper Size Sensor (PL 7.3).

Replace the MCU PWB (PL 9.1).

024-986 Confirmation Of Printing All RAP

Checks whether remaining sets will be printed during Proof Print.

Procedure

No action necessary.

025-596 Diag. HDD Maintenance Failure RAP

An NG occurred when HDD Fail Forecast of Diagnostics was executed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the HDD (PL 9.2).

025-597 Diag. HDD Initialize Failure RAP

An error occurred when the HDD Initialization Diagnostic was executed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the HDD (PL 9.2).

027-452 Duplicate IP address RAP

A PC of the same IP address exists on the network.

Initial Actions

Change the IP address.

Power OFF/ON

Procedure

Replace the Printer PWB (PL 9.2). If the problem persists, replace the ESS PWB (PL 9.2).

027-500 SMTP Server Failure for Mail I/O RAP

The Mail I/O cannot resolve the SMTP Server address.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Specify the correct SMTP Server name or specify the IP address.

027-501 POP Server Failure for Mail I/O RAP

The Mail I/O cannot resolve the POP Server address.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Specify the correct POP Server name or specify the IP address.

027-502 POP Authentication Failure for Mail I/O RAP

The Mail I/O cannot pass POP authentication.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check that the login name and password for the POP Server are correct.

027-700 Media Failure RAP

The Media is malfunctioning.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the malfunctioning Media with working Media.

027-701 Media Not Found RAP

The Media is not inserted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Insert the Media.

027-702 Media Data Not Found / Not Supported RAP

The data in the Media is corrupted. Or, there is no data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Input Media data. If necessary, repair or replace the Media.

027-703 Media Reader Failure / Disconnected RAP

The Controller cannot access the Media Reader.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection between the Media Reader and the device. If the problem persists, replace the Media Reader.

027-710 Invalid S/MIME Mail Error RAP

The Mail I/O received S/MIME mail even though S/MIME was set to “Off”.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Enable S/MIME where necessary.

027-711 S/MIME mail sender certificate not found RAP

The Mail I/O received the S/MIME signature mail but could not obtain the sender certificate.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Request for the mail to be resent. Or, reconsider the setting of the S/MIME device where necessary.

027-712 S/MIME mail sender certificate not valid RAP

The Mail I/O received the S/MIME signature mail but as the sender certificate was valid, a signature verification error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Request for the mail to be resent with a valid sender certificate.

027-713 S/MIME mail was altered RAP

The Mail I/O received the S/MIME signature mail but tampered mail was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the sender where necessary.

027-714 S/MIME mail sender impersonation RAP

The Mail I/O received the S/MIME signature mail but as the sender address and the signature mail address were different, a false sender was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the sender where necessary.

027-715 S/MIME mail certificate not support RAP

The secret key (certificate) supported by S/MIME encrypted mail is not registered in the device.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check that the certificate of the destination is registered in the certificate store of the device.

027-716 Prohibit Receiving E-mail With No Signature RAP

The system detected that prohibited E-mails without signature were received.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

027-720 Extension Server Host Not Found RAP

Either the specified Server for the application interface cannot be found or the DNS could not be resolved.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection to the destination Server for the application interface. Set the destination Server address for the application interface using IP address where necessary.

027-721 Extension Server Not Found RAP

The system attempted to connect to the application interface but the host replied that the application cannot be found.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the host and then repeat the operation.

027-722 Extension Server Time-out Failure RAP

The system attempted to connect to the application interface but failed due to a time-out.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the host and then repeat the operation.

027-723 Extension Server Authentication Failure RAP

The system attempted to connect to the application interface but authentication failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the host and then repeat the operation.

027-724 Extension Server Access Failure RAP

The application interface failed (for all causes other than service could not be found, time-out or authentication failure).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the host and then repeat the operation.

027-725 Extension Server Operation Failure RAP

Job operation of the application interface failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the destination host of the application interface and then repeat the operation.

027-726 Extension Server Unknown State RAP

The status of the destination of the application interface is unknown.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the destination host of the application interface and then repeat the operation.

027-727 Extension Server Request Invalid Parameters RAP

The parameter used for the application interface is incorrect.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the destination host of the application interface and then repeat the operation.

027-737 Template Server Read Error RAP

When reading from the Job Template Pool Server, an error was received from the server for one of the following FTP commands: “TYPE A”, “LIST” and “RETR”.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

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.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the resource of the storage destination path from the client PC using CentreWare.

027-740 Template Server Login Error RAP

Login to the FTP Server failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

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 Failure RAP

While connecting to the Job Template Pool Server using the FTP command “LIST”, the system failed in obtaining data connection or list data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

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 HD File System Full RAP

The HDD was full when writing to a local HDD Job Template or when writing temporary work files.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

The HDD may be filled with scanned images. Wait and retry.

Initialize the internal HDD.

Replace the HDD (PL 9.2).

027-743 Template Server Install Error RAP

The address format of the Job Template Pool Server is incorrect.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the parameters related to the Job Template Pool Server.

027-744 Template Server ADD Error (DNS Library) RAP

An error occurred while recalling the DNS Resolution Library.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection to the DNS. Or, check whether the Job Template Pool Server domain name has been registered in the DNS.

027-745 Template Server ADD Error (DNS address) RAP

During address resolution, the DNS Server address is not set.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the DNS address. Or, set the Job Template Pool Server address using IP address.

027-746 Job Template Pool Server Not Ready RAP

The port of the protocol specified in Job Template Pool Server settings is not started up.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Start up the port of the protocol (FTP client or SMB) specified in Job Template Pool Server settings.

027-750 Fax document incongruent RAP

With iFAX Document E-mail and iFAX Transfer prohibited, iFAX Document E-mail and iFAX Transfer instructions were received.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

For iFAX Receive, change the setting for transfer.

027-751 Job Template analysis Error RAP

An error was detected when analyzing the given instruction.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reexamine the contents of the instruction.

027-752 Required User Entry Not Entered RAP

With the required user entry not entered, the instruction to start the job was given.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

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 request disabled RAP

While the Job Flow Service was invalid, the system attempted to create a job to recall an external service.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Enable the Job Flow Service.

027-796 E-mail Not Printed RAP

For received E-mail, as the settings were set to [Do not print header and content], E-mails without attachments were received.

Initial Actions

Change the settings and repeat the operation.

Power OFF/ON

Procedure

Check the line condition.

Check the remote machine.

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.2). if the problem persists, replace the ESS PWB (PL 9.2).

027-797 Invalid Output Destination RAP

With E-mail to Box and E-mail to Fax dropped, E-mail was received.

Initial Actions

Change the settings and repeat the operation.

Power OFF/ON

Procedure

Check the line condition.

Check the remote machine.

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.2). if the problem persists, replace the ESS PWB (PL 9.2).

033-363 Fax Card Reset (Reboot) RAP

As the Fax PWB did not respond, the ESS reset.

Initial Actions

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.2). If the problem persists, replace the ESS PWB (PL 9.2).

033-710 Document does not exist RAP

The specified document does not exist.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

033-711 Illegal Page inside Document RAP

The specified page does not exist or the specified page has invalid data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-712 System Memory exceeded RAP

Memory became full.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-713 No specified Chain Link RAP

The Chain-Link does not exist.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-714 Scan Error (No specified doc) RAP

The data has not been registered.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-715 Cannot start job RAP

The job cannot be processed with the host in the current status.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-716 No specified Mailbox RAP

The specified mailbox does not exist.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the operation.

033-717 Incorrect Password RAP

The verification result of the specified password failed.

Initial Actions

Refer to BSD 16.1, 17.1.

Procedure

Perform following as required

1. Verify machine is connected to dedicated analog line.
2. Verify that no password is set.

   Customer can perform following steps if system admin is accessible with code 11111, or code is available.

   a. Press the **Log In / Out** Button on the Control Panel and enter 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 No Document in Mailbox RAP

The document does not exist in the Polling Send box or the specified mailbox.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

033-719 Fax job Canceled not recovery job RAP

The document does not exist in the Polling Send box or the specified mailbox.

Initial Actions

Power OFF/ON

Procedure

Check the line condition.

Check the remote machine.

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.2). If the problem persists, replace the ESS PWB (PL 9.2).

033-720 Document Creation Failure RAP

The specified document cannot be created.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

033-721 Page Creation Failure RAP

The specified page cannot be created.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

033-724 Fax receive memory overflow RAP

The upper limit for image data in a single transmission was exceeded.

Procedure

Refer customer to User Guide to find information on lowering memory usage.

033-725 Insufficient HDD Space RAP

The HDD was full during Fax Receive, Format or report creation.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-726 Cannot print 2-Sided RAP

2 Sided printing is not available when receiving Fax (mixed-size originals for fax).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-727 Cannot rotate image RAP

Rotation is not available when receiving Fax (insufficient memory).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-728 Cancel Auto Printing RAP

Formatting for Fax Auto Printing was aborted because the instruction for Fax Manual Printing was given during the operation.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-730 Fax Service recovery Error RAP

Recovery was not possible using the Fax Controller or FCB PWB.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-731 Inconsistent Instructions RAP

When the system was waiting to receive a Fax job, a simultaneous request from the user to stop the job was received.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-732 Print job canceled by forced polling RAP

Stored jobs are deleted in Forced Polling. As there was a print job during Forced Polling, the job was canceled.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-733 Fax document number get Error RAP

The job document number related to the job could not be obtained.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-734 Fax Print Suspension RAP

Fax Print and Fax Auto Report were started at the same time.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-735 Fax Memory Allocate Time-out RAP

An error occurred in reserving Fax Receive Memory.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-736 IFAX Off Ramp Failure RAP

Fax was not transferred as the data capacity exceeded the threshold value while the Fax Transfer Prohibition Function, based on the data capacity of the Internet Fax Off Ramp, was activated.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-737 Fax card job canceled RAP

The Fax Controller detected a failure and could not continue processing the job.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-738 JBIG Information Failure RAP

The Fax Controller detected an error in JBIG data during coding/decoding of the JBIG data.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-740 Fax Immediate receive print canceled RAP

The user canceled immediate printing upon receiving.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-741 Fax page read open time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-742 Fax page read close time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-743 Fax page write open time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-744 Fax page write close time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-745 Fax data write time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-746 Fax data read time-out RAP

When transferring image data to the FCB PWB, the conditions for sending the response to the FCB PWB did not match.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-747 Fax Service could not start RAP

When requesting to start the service from the FCB PWB, the job could not be created due to causes such as job number overflow.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-748 Fax Service illegal sequence RAP

During Service Sequencing, a message indicating that the operation was not allowed in Sequencing from the FCB PWB was received.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-749 Fax card Memory Error RAP

During Fax formatting, the enlarged image data is larger than the memory reserved.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-750 Fax format error RAP

During formatting, when image data was retrieved from the FCB PWB, even though the image data was judged to be free from error, enlargement failed.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-790 EP-DX Call Wait (Not Re-dial count) RAP

The FCB PWB Re-dial Wait Status was set without calculating the number of re-dial attempts.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-791 EP-DX Call Wait (Re-dial count) RAP

The number of re-dial attempts was calculated and FCB PWB Re-dial Wait Status was set.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

033-792 EP-DX Call Stop RAP

The RCC Service was immediately terminated.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

No action necessary.

034-211 Fax Option Slot 1 Board Failure RAP

Failure was detected on the Fax Option Slot 1 board.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection between the Mother PWB and the slot.

Replace the FCB PWB (PL 9.3).

034-212 Fax Option Slot 2 Board Failure RAP

Failure was detected on the Fax Option Slot 2 board.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection between the Mother PWB and the slot.

Replace the FCB PWB (PL 9.3).

034-500 Incorrect Dial Data RAP

Incorrect information in the dial data (Recipient Telephone number).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Dial again and then repeat the operation.

034-501 Selected Channel Dial Error RAP

The specified channel is not installed.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check if the specified channel has been installed.

Replace the FCB PWB (PL 9.3).

034-504 Fax Stored Memory Exceeded RAP

The system detected Memory Full during the transmission job. (Storage memory is insufficient.)

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Free up the memory capacity and then repeat the operation.

034-505 Fax Work Memory Exceeded RAP

Transmission and operation memory overflowed.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Free up the memory capacity and then repeat the operation.

034-506 Unsupported Function at Remote RAP

A send error was detected in the Recipients Print Sets function because the remote machine does not support remote collating and copying.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

034-507 Password Check Error RAP

The password was incorrect.

An error in the mailbox number was detected.

No documents for polling are found.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check if the password, mailbox number or document for polling is valid.

Check the remote machine and then repeat the operation.

034-508 Transmission Canceled via DTMF RAP

The system sent a reject command signal and stopped the transmission.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Do not use machine for a short time and then repeat the operation.

Check the circuit condition.

Check the machine.

034-509 DTMF Illegal Procedure Error RAP

The system stopped the transmission after receiving the invalid procedure signal from the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

034-510 DTMF Procedure Error RAP

The system stopped the transmission after receiving the reject command signal from the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Leave it alone for some time and then repeat the operation.

Check the circuit condition.

Check the remote machine.

034-511 Unable to Send File at Remote RAP

The remote machine does not support the file transfer function.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

034-512 Detect Endless Loop RAP

An infinite loop was detected at the remote relay broadcast.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

034-513 Receive Command Error RAP

The system received an illegal command from the remote machine during remote maintenance.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

034-514 Requested Function Unsupported RAP

The system received the remote maintenance request from the remote machine but it does not support this function.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the system data.

Check the remote machine (in the EP System).

034-515 Illegal Command Received RAP

The system received a DIS signal from the remote machine.

A DCS signal was received because the system does not support this function.

An illegal command was received.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Replace the FCB PWB (PL 9.3).

034-519 Number of Recipients Exceeded RAP

The number of recipients exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reduce the number of recipients and then repeat the operation.

034-520 Number of Services Exceeded RAP

The number of services exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reduce the number of services and then repeat the operation.

034-521 Internal I/F Error RAP

The service specified by the SI is not found.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

034-522 No manual send Line RAP

There is no line available for manual transmission when manual transmission is disabled.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Wait for a while and then repeat the operation.

Replace the FCB PWB (PL 9.3).

034-523 Fax service disabled RAP

The system was unable to accept the service because it was in a prohibited state.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Wait for the prohibited state to clear and then repeat the operation.

034-524 Unable to cancel operation RAP

The service cannot be prohibited because it was in operation.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Wait for a while and then repeat the operation.

034-525 Specified Chain-link not exist RAP

The Chain-Link Number could not be found because it does not exist.

Procedure

Enter the correct Chain-Link Number and then repeat the operation.

034-526 Incorrect Chain-Link Value RAP

The Chain-Link value was out of the specified range.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Enter a value within the specified range and then repeat the operation.

034-527 Dial Control Error RAP

The number of dial requests exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

034-528 Cannot perform manual send RAP

A manual transmission was requested during dialing.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

034-529 No printable paper size RAP

When confirming and receiving print jobs, the jobs cannot be printed because the document size does not match the paper size.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check if the tray has been set properly.

Check the size of the paper loaded in the tray.

034-530 DTMF I/F Time-out RAP

DTMF I/F Time-out was detected because the correct operation did not take place within the specified time.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check that operation is correct and then repeat the operation.

Replace the software.

034-700 G3 Dicep Time-out RAP

GCP was locked (Date task no RTC ACK).

Time-out occurred for G3 Dicep without becoming idle.

Code hung-up.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Replace the FCB PWB (PL 9.3).

034-701 Software Reset RAP

The software was being reset.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-702 No destination specified RAP

There was no dialing so calls cannot be made.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Enter the telephone number and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

034-723 No Timer Assigned RAP

There is no allocated timer.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-724 Illegal Sequence RAP

Abnormal sequence (Self-terminal ID setting mismatch).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-725 L3 Task Internal Error RAP

An error was detected in the internal L3 task.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-726 HD81501 I/F Buffer Busy RAP

The HD81501 I/F buffer was busy.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-727 Task No Response (For 3sec Or More To A 1,300Hz Incoming Call) RAP

The task did not respond to a 1,300Hz incoming call for 3sec or more.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-728 Invalid Destination RAP

Transmission cannot be carried out with an invalid recipient.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the recipient and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

034-729 Line cut, In-Channel PB Send RAP

The line was cut off when sending In-Channel PB.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-734 HI Task Internal Error RAP

An error was detected in the internal HI task.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

034-737 Incoming call response Error RAP

The control failed during call response.

Initial Actions

Refer to BSD 16.1/17.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.3). If the problem persists, replace the ESS PWB (PL 9.2).

034-743 Abnormal frame-sending DMA RAP

When sending frames, the DMA was abnormally terminated.

Initial Actions

Refer to BSD 16.1/17.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.3). If the problem persists, replace the ESS PWB (PL 9.2).

034-744 Unacceptable Channel RAP

The Channel was not allowed.

Initial Actions

Refer to BSD 16.1/17.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.3). If the problem persists, replace the ESS PWB (PL 9.2).

034-790 Line 1 not connected RAP

Channel 1 outside line was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-791 Line 0 (Ext.) not connected RAP

Channel 1 extension was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-792 Line 2 not connected RAP

Channel 2 was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-793 Line 3 not connected RAP

Channel 3 was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-794 Line 4 not connected RAP

Channel 4 was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-795 Line 5 not connected RAP

Channel 5 was not connected.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the connection.

Check or replace the FCB PWB (PL 9.3).

034-796 Dial Error (Incorrect Fax Number 2) RAP

Incorrect information in the dial data (Recipient Telephone Number).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Dial again and then repeat the operation.

034-797 Communication Parameter Error RAP

A job error was detected due to an error in the transmission configuration parameter.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the transmission configuration parameter and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

034-798 Data Parameter Error RAP

A job error was detected due to an error in the transmission data parameter.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the transmission data parameter and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

034-799 Auto Dial without dial data RAP

No dial data (Recipient's Telephone Number) was found after Auto Dial was started.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Dial again and then repeat the operation.

035-700 Modem Faulty RAP

An error was detected because the CS was not turned off or the HDLC frame was sent in Modem Control.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

035-701 T1 Transmission Time-out RAP

When sending, the DIS signal was not received from the remote machine after transmission was not established, or the Timer T1 timed out.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-702 Destination Receive Rejected RAP

For the NSS/DTC signal sent from the machine, the DCN signal was received from the remote machine, or transmission was rejected by the Select Receive function on the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-703 DCN Receive at Phase B Send RAP

DCN signal was received from the remote machine when sending in PHASE-B.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-704 Destination Polling Error RAP

Polling could not be done because the remote machine does not support Polling Send function, or the stored document/original was not set.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-705 DCS/NSS Resend Exceeded RAP

The NSS signal was sent out three times but there was no response from the remote machine, or the DCN signal was received.

Resending of DCS/NSS signal exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-706 Fallback Error RAP

When sending the NSS signal, fall back could not be done or a fall back error occurred (In User/Auto Resend Standby).

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-707 Wrong Password/Receive Banned RAP

The password does not exist or it was inconsistent.

Transmission was received from another party other than the selected party for transmission.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-708 Post-message resend exceeded RAP

The post command was sent out three times but there was no response from the remote machine, or the DCN signal was received.

Resending of post messages exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-709 RTN Receive RAP

The system received a RTN signal from the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check with the remote machine.

Reduce the speed and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-710 PIN Receive RAP

The system received a PIN signal from the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-711 DCN Receive at Phase D RAP

DCN signal or an invalid command was received from the remote machine when sending in PHASE-D.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-712 No response after 3 NSC RAP

The password was incorrect.

Stored documents/originals for polling was not set on the remote machine.

Document jam on the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-713 T2 time-out after sending FTT RAP

No NSS/DCS response signal was returned from the remote machine after the FTT signal was sent.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

FAX phone line may also carry DSL. This is not supported by the hardware. FAX requires an analog only phone line.

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-714 DCN Received after NSC/DTC RAP

Due to incorrect password, no originals for polling, or paper jam on the remote machine, a DCN signal was returned from the remote machine to the NSC/DTC signal sent from the machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-715 Wrong Password-Polling Error RAP

Polling could not be done due to password mismatch.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-716 No past message-T2 Time-out RAP

The Timer T2 timed out or there was no post message.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-717 RTN Send RAP

A RTN signal was sent to the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check with the remote machine.

Reduce the speed and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-718 Receive T1 Time-out RAP

When no data was sent from the remote machine or after receiving more than 1 page manually, the remote machine changed the resolution or the document size and the machine returned to PHASE-B, but no data was sent from the remote machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-719 Busy tone detected RAP

Busy tone was detected in receive PHASE-B.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-720 Unable to receive by remote RAP

No compatibility was found in the remote machine.

It does not support the function to receive the DIS/NSF/NSC/DTC signals.

Memory is full, etc.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-721 DCN Received at Phase B RAP

DCN signal was received from the remote machine when receiving in PHASE-B.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-722 Wrong Frame length of 300bps RAP

The frame length exceeded 3.45sec in 300bps command/response.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-723 No CD after receiving flag RAP

The system could not receive the CD signal within 3mins after the signal from the remote machine was received.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-724 DCN Receive after sending FTT RAP

DCN signal was returned from the remote machine to the FTT signal sent from the machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-725 Remote has no Mailbox/Relay RAP

The remote machine does not support the relay broadcast and mailbox functions.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

035-726 Phase C cannot receive-10 seconds RAP

The system could not receive the TRN signal within 10sec in PHASE-C.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-727 50% Error during G3 Receive RAP

More than 50% of decoding errors were detected when 148mm of G3 image information was received in PHASE-C.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-728 C EOL cannot receive in 10 sec. RAP

The system could not detect a normal line within 1min after it had begun to receive G3 image information.

The system could not detect the EOL signal within 13sec (default) when receiving.

The system could not receive the EOL signal within 10sec in PHASE-C.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-729 Carrier Down Detected RAP

The Timer T2 timed out or dropped out when the carrier was broken when receiving the image information.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-730 No CS with Phase-C High Speed RAP

During training or when sending command in high speed in PHASE-C, an error was detected because the modem CS was not turned On on RS request or HDLC frame was sent.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-731 Fax V.8 Error RAP

An error was detected in the parameter of V.8.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Check or replace the FCB PWB (PL 9.3).

035-732 Fax V.34 PCH CD Off RAP

The V.34 P-CH CD was off.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-733 Fax V.34 C/PCH CS None RAP

There was no V.34 C/P-CH CS.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-734 Polling Error at Remote Step V8 RAP

During Polling Receive, there was no stored documents/originals for polling or the polling operation/settings was missed on the remote machine in V.8 Procedure.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-735 No Doc. in Polling Box Step V8 RAP

During Polling Send, there was no stored documents/originals for polling or the polling operation/settings was missed on the machine in V.8 Procedure.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the settings and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-736 No reply DCN after sending CTC RAP

The system received the DCN signal from the remote machine, or no response was returned from the remote machine to the CTC signal sent by the machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-737 No reply DCN after sending EOR RAP

The system received the DCN signal, or no response was returned from the remote machine to the EOR sent.

Resending of CTC/EOR signal exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-738 No reply DCN after sending RR RAP

The system received the DCN signal from the remote machine, or no response was returned from the remote machine to the RR signal sent by the machine.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check the circuit condition.

Check the FCB PWB (PL 9.3).

035-739 Fax T5 Time-out RAP

The Timer T5 timed out.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check with the remote machine.

Reduce the speed and then repeat the operation.

035-740 Sending stopped after EOR Send RAP

After the EOR signal was sent, sending stopped or the EOR-Q signal was sent from the machine at ECM sending.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-741 ECM Phase C Flag Time-out RAP

In ECM, the flag timer of PHASE-C was detected to exceed the limit or time-out was detected between the frames.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-742 EOR Send or Receive RAP

After the EOR signal was sent, the ERR signal was returned in response or the EOR-Q signal was received at ECM receiving.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-743 Remote cannot receive SUB RAP

The remote machine does not support the SUB receive function.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-744 Remote cannot receive password RAP

The remote machine does not support the password receive function.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-745 PTX has no SEP capability RAP

The remote machine does not support the SEP function.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-746 Busy-Cannot detect dial tone RAP

The system could not detect the DT1 signal before dialing.

The system detected the BT1/BT2 signal before dialing.

The system detected the CT1 signal before dialing (a state in which PBX was busy).

The system detected the CT2 signal before dialing.

The system could not detect the DT1 signal during dialing (=) (This could happen when an outside line was used without any signal sending from the PBX).

The system detected the BT1/BT2 signal during dialing (=).

The system detected the CT1/CT2 signal during dialing (=).

The system could not detect the 2nd DT2 signal during dialing (==).

The system detected the BT1/BT2 signal during dialing (==).

The system detected the CT1/CT2 signal during dialing (==).

The system could not detect the third DT3 signal during dialing (===).

The system detected the BT1/BT2 signal during dialing (===).

The system detected the CT1/CT2 signal during dialing (===).

The system detected the BT1/BT2 signal after dialing.

The system detected the CT1/CT2 signal after dialing.

The system could not detect the DT signal from the PBX before dialing.

The system detected the BT signal from the PBX before dialing.

The system detected the CT signal from the PBX before dialing.

The system detected the BT signal from the PBX after dialing.

The system detected the CT signal from the PBX after dialing.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the PBX.

Check the circuit condition.

Check the call signal of the outside line call conditions (“0”).

035-747 Abort while dialing RAP

The operation was stopped during dialing by using the Stop button.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-748 Abort during transmission RAP

The operation was stopped during transmission by using the Stop button.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-749 No reply from remote station RAP

After dialing finished, the system could not receive the CED/DIS signal from the remote machine, causing a transmission error or redialing to exceed the limit. Therefore no response was returned.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the circuit condition.

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-750 Power Off during transmission RAP

The power was turned off during transmission, causing an error.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

Check or replace the FCB PWB (PL 9.3).

035-751 Doc. send operation canceled RAP

The operation was stopped during document sending by using the Stop button.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-752 Number of Job Restriction Error RAP

The number of jobs setup exceeded the limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the settings and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-753 Fax Memory Full RAP

The accumulated image information exceeded the memory limit. (File Full, Append File Log Error)

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Free up the memory capacity and then repeat the operation.

035-754 File management memory full RAP

The accumulated document management exceeded the memory limit.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Free up the memory capacity and then repeat the operation.

035-755 File Add Page Error RAP

An Append File Log Error occurred.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Check or replace the FCB PWB (PL 9.3).

035-756 Cannot add page RAP

No data on additional file.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Check or replace the FCB PWB (PL 9.3).

035-757 No Receive Page RAP

The system received a transmission but it did not receive any page.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

035-758 No specified file or page RAP

The specified file or the specified page was not found.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the settings and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-759 No specified job RAP

The specified job was not found when transmission was canceled.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check the settings and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

035-760 File common processing Error RAP

Time-out occurred due to COMM file access. Or, the file handler did not return an error code when an error occurred.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

035-761 File other processing Error RAP

The system accessed a file of an incorrect data type that could not handle transmission jobs.

Initial Actions

Refer to BSD 16.1, 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

036-511 Illegal procedure 1551RAP

An error in the procedure was detected.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

036-716 Wrong LSI Send (Busy Time-out) RAP

An error was detected in the LSI sending. (Send busy timed out)

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

036-717 Abnormal LSI operation RAP

An error was detected in the LSI operation.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

036-720 C Line Off but I Line On RAP

When Line C was turned Off, Line I did not turn Off.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

036-721 I Line Off during Transmission RAP

Line I was not turned Off during transmission.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

036-747 Fast select response received RAP

The system received restricted response for fast select.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

036-748 Receive remote charge request RAP

The system received a request on incoming charge.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

036-749 Abnormal LCGN RAP

An error occurred in LCGN Control.

Initial Actions

Refer to BSD 16.1/17.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.3). If the problem persists, replace the ESS PWB (PL 9.2).

036-750 Illegal procedure 1301 RAP

An error in the procedure was detected.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

036-793 Select communication Error RAP

A failure occurred during select transmission.

Initial Actions

Refer to BSD 16.1/17.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the FCB PWB (PL 9.3). If the problem persists, replace the FMO PWB (PL 9.3). If the problem persists, replace the ESS PWB (PL 9.2).

036-795 Canceled by remote station RAP

When sending with the Recipient Print Sets function, transmission was cut off because the remote machine does not support multi-copy function.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

036-796 Sent without multiple sets RAP

When sending with the Recipient Print Sets function, the system sent as normal because the remote machine does not support multi-copy function.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Check or replace the FCB PWB (PL 9.3).

036-797 Illegal procedure 1501 RAP

An error in the procedure was detected.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check the remote machine and then repeat the operation.

Reload Firmware (ADJ 9.3.1).

041-210 MCU NVM is out of order Tray Module RAP

- NVM data error occurred in the Tray Module PWB.
- NVM data error occurred in the 2TM PWB.

Initial Actions

- Refer to BSD 1.2/3.3.
- Power OFF/ON
- Reconnect the connection cable of the TM.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each 2TM PWB or TTM PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[041-210] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Check the wire between J541 and J413 for an open circuit or a short circuit (BSD 1.2 Flag 3 / BSD 3.3 Flag 5/Flag 6). **The wire between J541 and J413 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-A5 (+) and GND (-) (BSD 1.2 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the 2TModule PWB (PL 12.6/PL 13.8) or the TTM PWB (PL 12.6/PL 13.8). If the problem persists, replace the MCU PWB (PL 9.1).

041-211 NVM Read/Write Failure Tray Module RAP

- The Tray Module PWB NVM failed during the Read/Write operation.
- The 2TM PWB NVM failed during the Read/Write operation.

Initial Actions

- Refer to BSD 1.2/3.3.
- Power OFF/ON
- Reconnect the connection cable of the TM.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each 2TM PWB or TTM PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[041-211] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Check the wire between J541 and J413 for an open circuit or a short circuit (BSD 1.2 Flag 3 / BSD 3.3 Flag 5/Flag 6). **The wire between J541 and J413 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-A5 (+) and GND (-) (BSD 1.2 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the 2TM PWB (PL 12.6/PL 13.8) or the TTM PWB (PL 12.6/PL 13.8). If the problem persists, replace the MCU PWB (PL 9.1).

041-340 MCU RAM Read/Write Failure RAP

The MCU PWB RAM failed during the Read/Write operation.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[041-340] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Replace the MCU PWB (PL 9.1).

041-362 IOT NVM R/W Failure RAP

The MCU PWB NVM failed during the Read/Write operation.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[041-362] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Replace the MCU PWB (PL 9.1).

041-363 MCU NVM Broken Failure RAP

NVM data error occurred in the MCU PWB.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[041-363] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Replace the MCU PWB (PL 9.1).

041-364 MCU CPU Power to access NVM is not enough RAP

The MCU PWB NVM suffered an internal failure during the data write operation.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the ROM version by executing NVM[740-007 ROM Version]. **The ROM is the latest version.**

Y N

Replace the ROM with the latest version.

Replace the MCU PWB (PL 9.1).

041-366 MCU ASIC circuit to control Crum is defect RAP

The CRUM Control ASIC failed.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connectors are securely connected between the MCU PWB and Toner CRUM PWB (BSD 9.1) (P/J127) . **The connectors are securely connected.**

Y N

Ensure the connectors are securely connected.

Turn on the power again. **[041-366] reoccurs.**

Y N

Return to Service Call Procedures in Section 1.

Replace the MCU PWB (PL 9.1).

042-323 Drum K Motor Drive Failure RAP

The Drum Motor is not rotating at the specified speed.

Initial Actions

- Refer to BSD 4.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge (PL 4.1) and the Fuser Unit (PL 5.1).

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control[071-037 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 (PL 1.1) is installed correctly.**

Y N

Install the Main Drive Assembly (PL 1.1) correctly.

Check the wire between J408-7 and J214-8 for an open circuit or a short circuit (BSD 4.1 Flag 7). **The wire between J408-7 and J214-8 is 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 9.1).

042-325 Main Motor Failure RAP

The Main Motor is not rotating at the specified speed.

Initial Actions

- Refer to BSD 4.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge (PL 4.1) and the Fuser Unit (PL 5.1).

Procedure

Close the LH Cover and the Front Cover.

Execute Component Control[071-036 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 (PL 1.1) is installed correctly.**

Y N

Install the Main Drive Assembly (PL 1.1) correctly.

Check the wire between J408-9 and J214-6 for an open circuit or a short circuit (BSD 4.1 Flag 1). **The wire between J408-9 and J214-6 is 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 9.1).

047-211 OCT1 Failure RAP

After the OCT1 Motor turned On, the OCT Home Sensor 1 did not turn On within the specified time.

Initial Actions

- Refer to BSD 10.6.
- Power OFF/ON
- Remove foreign substances in the offset mechanism.

Procedure

Manually operate the offset mechanism. **The offset mechanism moves smoothly.**

Y N

Replace the parts that are interfering with operation.

Execute Component Control[047-205 OCT Home Sensor 1]. Actuate the OCT Home Sensor 1 with paper. **The display changes.**

Y N

Check the connections of P/J432, P/J613 and P/J117. **P/J432, P/J613 and P/J117 are connected correctly.**

Y N

Connect P/J432, P/J613 and P/J117.

Check the wire between J432 and J117 for an open circuit or a short circuit (BSD 10.6 Flag 1/Flag 2). **The wire between J432 and J117 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Exit PWB P432-1 (+) and GND (-) (BSD 10.6 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Exit PWB (PL 9.1).

Measure the voltage between the Exit PWB P432-3 (+) and GND (-) (BSD 10.6 Flag 1). Actuate the OCT Home Sensor 1 with paper. **The voltage changes.**

Y N

Replace the OCT Home Sensor 1 (PL 6.2).

Replace the Exit PWB (PL 9.1).

Alternately execute Component Control[047-001 Offset Motor 1 FORWARD ON] and Component Control[047-005 Offset Motor 1 REVERSE ON]. **The Offset Motor 1 (PL 6.2) starts up.**

Y N

Check the connections of P/J432 and P/J206. **P/J432 and P/J206 are connected correctly.**

Y N

Connect P/J432 and P/J206.

Check the wire between J432 and J206 for an open circuit or a short circuit (BSD 10.6 Flag 3). **The wire between J432 and J206 is conducting without an open circuit or a short circuit.**

A

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Offset Motor 1 (PL 6.2) between J206-1 (COM) and each point of J206-2/3/4/5 (BSD 10.6 Flag 3). **The resistance is approx. 100Ohm.**

Y N

Replace the Offset Motor 1 (PL 6.2).

Measure the voltage between the Exit PWB (PL 9.1) P432-7 (+) and GND (-) (BSD 10.6 Flag 3). **The voltage is approx. +24VDC.**

Y N

Replace the Exit PWB (PL 9.1).

Replace the Offset Motor 1 (PL 6.2). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Exit PWB (PL 9.1).

047-212 OCT2 Failure RAP

After the OCT2 Motor turned On, the OCT Home Sensor 2 did not turn On within the specified time.

Initial Actions

- Refer to BSD 10.7.
- Power OFF/ON
- Remove foreign substances in the offset mechanism.

Procedure

Manually operate the offset mechanism. **The offset mechanism moves smoothly.**

Y **N**

Replace the parts that are interfering with operation.

Execute Component Control[047-206 OCT Home Sensor 2]. Actuate the OCT Home Sensor 2 with paper. **The display changes.**

Y **N**

Check the connections of P/J434, J606, P/J111 and SJ1. **P/J434, J606, P/J111 and SJ1 are connected correctly.**

Y **N**

Connect P/J434, J606, P/J111 and SJ1.

Check the wire between J111 and J434 for an open circuit or a short circuit (BSD 10.7 Flag 1/Flag 2). **The wire between J111 and J434 is conducting without an open circuit or a short circuit.**

Y **N**

Repair the open circuit or short circuit.

Measure the voltage between the Exit PWB P434-1 (+) and GND (-) (BSD 10.7 Flag 2). **The voltage is approx. +5VDC.**

Y **N**

Replace the Exit PWB (PL 9.1).

Measure the voltage between the Exit PWB P432-2 (+) and GND (-) (BSD 10.7 Flag 1).

Actuate the OCT Home Sensor 2 with paper. **The voltage changes.**

Y **N**

Replace the OCT Home Sensor 2 (PL 6.4).

Replace the Exit PWB (PL 9.1).

Alternately execute Component Control[047-003 Offset Motor 2 FORWARD ON] and Component Control[047-004 Offset Motor 2 REVERSE ON]. **The Offset Motor 2 (PL 6.4) starts up.**

Y **N**

Check the connections of P/J433, J606 and P/J207. **P/J433, J606 and P/J207 are connected correctly.**

Y **N**

Connect P/J433, J606 and P/J207.

A **B**

Check the wire between J433 and P207 for an open circuit or a short circuit (BSD 10.7 Flag 3). **The wire between J433 and P207 is 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 (PL 6.4) 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 6.4).

Measure the voltage between the Exit PWB P433-1 (+) and GND (-) (BSD 10.7 Flag 3). **The voltage is approx. +24VDC.**

Y **N**

Replace the Exit PWB (PL 9.1).

Replace the Offset Motor 2 (PL 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

A **B**

Replace the Exit PWB (PL 9.1).

047-213 Different type of Finisher RAP

An invalid Finisher was installed.

Initial Actions

- Refer to BSD 3.4.
- Power OFF/ON

Procedure

Check the connection of the inlet. **The inlet is connected correctly.**

Y N

Connect the inlet.

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 3/Flag 4). **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 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

047-214 MCU-DM communication Error RAP

Communication error occurred between the MCU PWB and the DUP Module.

Initial Actions

Refer to BSD 1.2/3.2.

Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each DUP Module PWB connector. **The connectors are connected correctly.**

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 9.1).

Replace the Duplex PWB (PL 8.1). If the problem persists, replace the MCU PWB (PL 9.1).

047-215 MCU-EXIT communication Error RAP

Transmission error occurred between the MCU PWB and the Exit PWB.

Initial Actions

- Refer to BSD 1.2/3.4.
- Power OFF/ON

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each Exit PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J421 and J431 for an open circuit or a short circuit (BSD 3.4 Flag 1/ Flag 2). **The wire between J421 and J431 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the connection of the Power Unit P/J526. **P/J526 is connected correctly.**

Y N

Connect P/J526.

Check the wire between J430 and J526 for an open circuit or a short circuit (BSD 1.2 Flag 4). **The wire between J430 and J526 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the Exit PWB P430-3 (+) and GND (-) (BSD 1.2 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the Power Unit (PL 9.1).

Replace the Exit PWB (PL 9.1). If the problem persists, replace the MCU PWB (PL 9.1).

047-216 MCU-Finisher communication Error RAP

A communication error occurred between the MCU PWB and the Finisher.

Initial Actions

Refer to BSD 3.4.

Power OFF/ON

Procedure

Check the connection of the inlet. **The inlet is connected correctly.**

Y N

Connect the inlet.

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each Finisher PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J416 and J8843 for an open circuit or a short circuit (BSD 3.4 Flag 3/ Flag 4). **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 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

047-218 MCU-TM communication Error RAP

- Transmission error occurred between the MCU PWB and the TTM PWB.
- Transmission error occurred between the MCU PWB and the 2TM PWB.

Initial Actions

- Refer to BSD 1.2/3.3.
- Power OFF/ON
- Reconnect the connection cable of the TM.

Procedure

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each 2TM PWB or TTModule PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[047-218] reoccurs.**

Y N

End

Check the wire between J541 and J413 for an open circuit or a short circuit (BSD 1.2 Flag 3 / BSD 3.3 Flag 5/Flag 6). **The wire between J541 and J413 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-A5 (+) and GND (-) (BSD 1.2 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the 2TM PWB (PL 12.6/PL 13.8) or the TTM PWB (PL 12.6/PL 13.8). If the problem persists, replace the MCU PWB (PL 9.1).

061-315 SOS Long K Failure RAP

The light intensity of the LD2 does not reach the specified value.

Initial Actions

- Refer to BSD 6.4.
- Power OFF/ON

Procedure

Check the connections of P/J406 and P/J140. **P/J406 and P/J140 are connected correctly.**

Y N

Connect P/J406 and P/J140.

Check the wire between J406 and J140 for an open circuit or a short circuit (BSD 6.4 Flag 1/ Flag 2). **The wire between J406 and J140 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Install the Xero/Developer Cartridge securely.

Measure the voltage between the MCU PWB P406-2 (+) and GND (-) (BSD 6.4 Flag 3). **The voltage is +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1).

061-321 ROS Motor Failure RAP

- 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.

Initial Actions

- Refer to BSD 6.4.
- Power OFF/ON

Procedure

Check the connections of P/J406 and P/J140. **P/J406 and P/J140 are connected correctly.**

Y N

Connect P/J406 and P/J140.

Check the connections of P/J130 and P/J620. **P/J130 and P/J620 are connected correctly.**

Y N

Connect P/J130 and P/J620.

Check the wire between J406 and J140 for an open circuit or a short circuit (BSD 6.4 Flag 1/ Flag 2). **The wire between J406 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 J406 and J130 for an open circuit or a short circuit (BSD 6.5 Flag 1). **The wire between J406 and J130 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Execute Component Control[061-001 ROS MOTOR ON]. **The ROS Motor can be heard.**

Y N

Measure the voltage between the MCU PWB P406-10 (+) and GND (-) (BSD 6.4 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 9.1).

Repair the open circuit between J526 and J400.

Replace the MCU PWB (PL 9.1).

Replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1).

Install the Xero/Developer Cartridge securely.

Measure the voltage between the MCU PWB P406-2 (+) and GND (-) (BSD 6.4 Flag 3). **The voltage is +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1).

061-333 ROS Fan defect RAP

ROS Fan rotation failure.

Initial Actions

Refer to BSD 6.5.

Power OFF/ON

Clear away foreign substances and dust in the rotation mechanism.

Procedure

Execute Component Control[042-003 ROS FAN ON].Check for noise in the rotation of the ROS Fan (PL 3.1). **The ROS Fan (PL 3.1) is rotating.**

Y N

Measure the voltage between the MCU PWB J407-1 (+) and GND (-) (BSD 6.5 Flag 3). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J407 and J219 for an open circuit or a short circuit (BSD 6.5 Flag 3/Flag 4). **The wire between J407 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 9.1).

062-210 IISS Hot Line Failure RAP

There is an open circuit in the cable between the IIT/IPS PWB and the ESS PWB.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J719 and J320 for an open circuit or a short circuit (BSD 3.1 Flag 3/ Flag 4). **The wire between J719 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 11.3). If the problem persists, replace the ESS PWB (PL 9.2).

062-211 IISS EEPROM LOCAL Failure RAP

The IPS EEPROM failed during the Read/Write operation. (Local)

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[062-211] reoccurs.**

Y N

End

Replace the IIT/IPS PWB (PL 11.3).

062-277 IISS - DADF Communication Failure RAP

Transmission error occurred between the IIT/IPS PWB and the DADF PWB.

Initial Actions

- Refer to BSD 3.5.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

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

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 11.3). If the problem persists, replace the DADF PWB (PL 15.3).

062-300 Platen Interlock Open RAP

The Platen Interlock is open.

Initial Actions

- Refer to BSD 6.1.
- Power OFF/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 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 11.3).

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 11.4).

Replace the Platen Angle Sensor (PL 11.4).

Replace the IIT/IPS PWB (PL 11.3).

062-310 IISS - Controller Communication Failure RAP

Transmission error occurred between the IIT/IPS PWB and the ESS PWB.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J719 and J320 for an open circuit or a short circuit (BSD 3.1 Flag 3/ Flag 4). **The wire between J719 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 11.3). If the problem persists, replace the ESS PWB (PL 9.2).

062-311 IISS Software Logic Failure RAP

A software error was detected by the IIT/IPS PWB.

Initial Actions

Refer to BSD 6.2.

Power OFF/ON

Procedure

Check the ROM version by executing NVM[740-007 ROM Version]. **The ROM is the latest version.**

Y N

Replace the ROM with the latest version.

Replace the IIT/IPS PWB (PL 11.3). If the problem persists, replace the MCU PWB (PL 9.1).

062-345 IISS EEPROM sub system Failure RAP

The IPS EEPROM failed during the Read/Write operation.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[062-345] reoccurs.**

Y N

End

Replace the IIT/IPS PWB (PL 11.3).

062-360 Carriage Position Failure RAP

- 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.

Initial Actions

- Refer to BSD 6.3.
- Power OFF/ON

Procedure

Check the Carriage Rail for foreign substances and distortion. **Distortion or foreign substances are found in the Carriage Rail.**

Y N

Clear away the foreign substances. Correct the distortion.

Execute Component Control[062-212 IIT Registration Sensor]. **Actuate the IIT Registration Sensor (PL 11.4)** 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 11.3).

Measure the voltage between the IIT/IPS PWB P722-A9 (+) and GND (-) (BSD 6.3 Flag 2).

Actuate the IIT Registration Sensor (PL 11.4) with paper. **The voltage changes.**

Y N

Replace the IIT Registration Sensor (PL 11.4).

Replace the IIT/IPS PWB (PL 11.3).

Alternately execute Component Control[062-005 Carriage Motor SCAN ON] and Component Control[062-006 Carriage Motor RETURN ON]. **The Carriage Motor (PL 11.5) 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.

A B

A B

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 11.5). **The resistance between J721-5/6 and J721-1/2/3/4 is approx. 1Ohm.**

Y N

Replace the Carriage Motor (PL 11.5).

Measure the voltage between the IIT/IPS PWB (PL 11.3) 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 11.3).

Replace the Carriage Motor (PL 11.5). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

Replace the IIT/IPS PWB (PL 11.3).

062-371 Lamp Illumination Failure RAP

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.

Initial Actions

- Refer to BSD 6.3.
- Power OFF/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 (PL 11.6) 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 11.6).

Measure the voltage between the IIT/IPS PWB (PL 11.3) 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 11.3).

Replace the Exposure Lamp (PL 11.6). If the problem persists, replace the Lamp Ballast PWB (PL 11.6). if the problem persists, replace the IIT/IPS PWB (PL 11.3).

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 CCD PWB (PL 11.4). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

062-380 Platen AGC CH1 Failure RAP

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.

Initial Actions

- Refer to BSD 6.3.
- Power OFF/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 (PL 11.6) 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 11.6).

Measure the voltage between the IIT/IPS PWB (PL 11.3) 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 11.3).

Replace the Exposure Lamp (PL 11.6). If the problem persists, replace the Lamp Ballast PWB (PL 11.6). if the problem persists, replace the IIT/IPS PWB (PL 11.3).

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 CCD PWB (PL 11.4). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

062-386 Platen AOC CH1 Failure RAP

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.

Initial Actions

- Refer to BSD 6.2.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[062-386] reoccurs.**

Y N

End

Replace the CCD PWB (PL 11.4). If the problem persists, replace the IIT/IPS PWB (PL 11.3).

062-389 Carriage Over Run Failure RAP

The carriage over run.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors. Turn on the power again. **[062-389] reoccurs.**

Y N

End

Replace the IIT/IPS PWB (PL 11.3).

062-392 IISS PWBA Memory Failure-1 RAP

- 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 does not work.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[062-392] reoccurs.**

Y N

End

Replace the IIT/IPS PWB (PL 11.3).

062-393 IISS PWBA Failure-2 RAP

An internal processing error occurred in the IIT/IPS PWB.

Initial Actions

Refer to BSD 6.2.

Power OFF/ON

Procedure

Check the connection of each IIT/IPS PWB (PL 11.3) connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the IIT/IPS PWB (PL 11.3). If the problem persists, replace the CCD PWB (PL 11.4).

071-105 Tray 1 Registration Sensor On JAM RAP

After the Tray 1 Feed/Lift Motor turned On, the Registration Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.7.
- If jams occur after servicing components in the Left Upper Cover Assembly (PL 2.8), the Chute Assembly may be out of position (PL 2.8). Verify installation.
- Power OFF/ON

Procedure

(28CPM Model)

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[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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J201, P/J601 and P/J409. **P/J201, P/J601 and P/J409 are connected correctly.**

Y N

Connect P/J201, P/J601 and P/J409.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 2.3).

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 2 Feed/Lift Motor to its original position.

Check the wire between J201 and J409 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The wire 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 9.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Replace the MCU PWB (PL 9.1).

(33CPM Model)

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[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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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.**

A

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 9.1).

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 9.1).

Execute Component Control [071-108 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/J601 and P/J409. P/J133, P/J601 and P/J409 are connected correctly.

Y N

Connect P/J133, P/J601 and P/J409.

Check the Wire between P/J133 and P/J409 for open circuit (BSD8.1 Flag 2/Flag 3). **The Wire between P/J133 and P/J409 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 P409-A15(+)and GND(-)(BSD8.1 Flag 3). The voltage is aprox. **+5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between MCU PWB P409-A14(+)and GND(-)(BSD8.1 Flag 2). Actuate the Tray 1 Pre Feed Sensor (PL 2.3) with paper. **The voltage changes.**

Y N

Replace the Tray 1 Pre Feed Sensor (PL 2.3).

Replace the MCU PWB (PL 9.1).

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J201, P/J601 and P/J409. **P/J201, P/J601 and P/J409 are connected correctly.**

Y N

Connect P/J201, P/J601 and P/J409.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 2.3).

B

B

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 2 Feed/Lift Motor to its original position.

Check the wire between J201 and J409 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The wire 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 9.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Replace the MCU PWB (PL 9.1).

071-210 Tray 1 Lift Up Failure RAP

After the Tray 1 Feed/Lift Motor turned On, the Tray 1 Level Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 7.7.
- Reload the tray correctly.
- Remove foreign substances in the tray.
- Power OFF/ON

Procedure

Remove the tray and reinstall. **The Tray 1 Feed/Lift Motor can be heard.**

Y N

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J201, P/J601 and P/J409. **P/J201, P/J601 and P/J409 are connected correctly.**

Y N

Connect P/J201, P/J601 and P/J409.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 2.3).

Replace the Tray 1 Feed/Lift Motor with the Tray 2 Feed/Lift Motor.

Execute Component Control[071-007 Tray 1 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 2 Feed/Lift Motor to its original position.

Check the wire between J201 and J409 for an open circuit or a short circuit (BSD 7.7 Flag 1). **The wire 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 9.1).

Return the Tray 2 Feed/Lift Motor to its original position.

Replace the Tray 1 Feed/Lift Motor (PL 2.3).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

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

Reinstall the Tray 1 Level Sensor (PL 2.3).

A

Execute Component Control[071-206 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/J601 and P/J409. **P/J100, P/J601 and P/J409 are connected correctly.**

Y N

Connect P/J100, P/J601 and P/J409.

Check the wire between J100 and J409 for an open circuit or a short circuit (BSD 7.7 Flag 2/Flag 3). **The wire 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 P409-A7 (+) and GND (-) (BSD 7.7 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P409-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 9.1).

Replace the MCU PWB (PL 9.1).

A

071-211 Tray 1 Broken RAP

The Tray 1 Paper Size Switch failed.

Initial Actions

- Refer to BSD 7.1.
- Reload the tray correctly.
- Check the operation of the tray actuator.
- Power OFF/ON

Procedure

Remove Trays 1 and 2. Replace Tray 1 with Tray 2. **[071-211] 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).

072-101 Tray 2 Miss Feed JAM RAP

After the Tray 2 Feed/Lift Motor turned On, the Tray 2 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 7.8.
- Refer to BSD 8.2.
- Power OFF/ON

Procedure

(28CPM Model)

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[071-100 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 2.5) with paper. **The display changes.**

Y N

Check the connections of P/J105, P/J608 and P/J410. **P/J105, P/J608 and P/J410 are connected correctly.**

Y N

Connect P/J105, P/J608 and P/J410.

Check the wire between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The wire 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 9.1).

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 9.1).

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J202, P/J602 and P/J409. **P/J202, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J202, P/J602 and P/J409.

Remove the Tray 2 Feed/Lift Motor (PL 2.3) and the Tray 1 Feed/Lift Motor (PL 2.3).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 1 Feed/Lift Motor to its original position.

Check the wire between J202 and J409 for an open circuit or a short circuit (BSD 7.8 Flag 1). **The wire between J202 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 9.1).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 2.3).

Replace the MCU PWB (PL 9.1).

(33CPM Model)

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[071-100 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 2.5) with paper. **The display changes.**

Y N

Check the connections of P/J105, P/J608 and P/J410. **P/J105, P/J608 and P/J410 are connected correctly.**

Y N

Connect P/J105, P/J608 and P/J410.

A B

A B

Check the wire between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The wire 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 9.1).

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 9.1).

Execute Component Control [071-109 Tray 2 Pre Feed Sensor].Actuate the Tray 2 Pre Feed Sensor (PL 2.3) with paper . **The display changes.**

Y N

Check the Connection of P/J134, P/J602 and P/J409. **P/J134, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J134, P/J602 and P/J409.

Check the Wire between P/J134 and P/J409 for open circuit (BSD8.1 Flag 4/Flag 5). **The Wire between P/J134 and P/J409 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 P409-B15(+)and GND(-)(BSD8.1 Flag 5). **The voltage is aprox. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between MCU PWB P409-B14(+)and GND(-)(BSD8.1 Flag 4). Actuate the Tray 2 Pre Feed Sensor (PL 2.3) with paper. **The voltage changes.**

Y N

Replace the Tray 2 Pre Feed Sensor (PL 2.3).

Replace the MCU PWB (PL 9.1).

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J202, P/J602 and P/J409. **P/J202, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J202, P/J602 and P/J409.

C D

C D

Remove the Tray 2 Feed/Lift Motor (PL 2.3) and the Tray 1 Feed/Lift Motor (PL 2.3).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 1 Feed/Lift Motor to its original position.

Check the wire between J202 and J409 for an open circuit or a short circuit (BSD 7.8 Flag 1). **The wire between J202 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 9.1).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 2.3).

Replace the MCU PWB (PL 9.1).

072-105 Tray 2 Registration Sensor On JAM RAP

After the Tray 2 Feed Out Sensor turned On, the Registration Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.7.
- Refer to BSD 8.2.
- Power OFF/ON

Procedure

(28CPM Model)

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[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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control[071-015 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) can be heard.**

Y N

Check the connections of P/J204 and P/J410. **P/J204 and P/J410 are connected correctly.**

A

Y N

Connect P/J204 and P/J410.

Measure the resistance of the Takeaway Roll Clutch (PL 2.4) (BSD 8.2 Flag 3). (Between P204-1 and P204-4) **The resistance is approx. 250~100Ohm.**

Y N

Replace the Takeaway Roll Clutch (PL 2.4).

Check the wire between J204 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The wire between J204 and J410 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

(33CPM Model)

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[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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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.**

B

B

Y N

Replace the Registration Sensor (PL 2.4).

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-017 Takeaway Motor 242 ON] or [071-018 Takeaway Motor 145 ON]. **Takeaway Motor(PL 1.1) can be heard.**

Y N

Check the Connection of P/J422. **P/J422 is connected correctly.**

Y N

Connect P/J422.

Measure the voltage between MCU PWB P422-2(+)and GND(-),and P422-5(+)and GND(-) (BSD8.2 Flag 5). **The voltage is aprox. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Takeaway Motor (PL 1.1)

Replace the MCU PWB (PL 9.1).

072-210 Tray 2 Lift Up Failure RAP

After the Tray 2 Feed/Lift Motor turned On, the Tray 2 Level Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 7.8.
- Reload paper in the tray correctly.
- Remove foreign substances in the tray.
- Power OFF/ON

Procedure

Remove the tray and reinstall. **The Tray 2 Feed/Lift Motor can be heard.**

Y N

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 2 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Check the connections of P/J202, P/J602 and P/J409. **P/J202, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J202, P/J602 and P/J409.

Remove the Tray 1 Feed/Lift Motor (PL 2.3) and the Tray 2 Feed/Lift Motor (PL 2.3).

Replace the Tray 2 Feed/Lift Motor with the Tray 1 Feed/Lift Motor.

Execute Component Control[071-008 Tray 2 Feed/Lift Motor ON]. **The Tray 1 Feed/Lift Motor (PL 2.3) can be heard.**

Y N

Return the Tray 1 Feed/Lift Motor to its original position.

Check the wire between J202 and J409 for an open circuit or a short circuit (BSD 7.8 Flag 1). **The wire between J202 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 9.1).

Return the Tray 1 Feed/Lift Motor to its original position.

Replace the Tray 2 Feed/Lift Motor (PL 2.3).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Check the installation of the Tray 2 Level Sensor (PL 2.3) 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 (PL 2.3).

A

A

Execute Component Control[071-207 Tray 2 Level Sensor]. Manually activate the Tray 2 Level Sensor (PL 2.3). **The display changes.**

Y N

Check the connections of P/J102, P/J602 and P/J409. **P/J102, P/J602 and P/J409 are connected correctly.**

Y N

Connect P/J102, P/J602 and P/J409.

Check the wire between J102 and J409 for an open circuit or a short circuit (BSD 7.8 Flag 2/Flag 3). **The wire between J102 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 P409-B7 (+) and GND (-) (BSD 7.8 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P409-B9 (+) and GND (-) (BSD 7.8 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 2.3).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

072-211 Tray 2 Broken RAP

The Tray 2 Paper Size Switch failed.

Initial Actions

- Refer to BSD 7.2.
- Reload the tray correctly.
- Check the operation of the tray actuator.
- Power OFF/ON

Procedure

Remove Trays 1 and 2. Replace Tray 1 with Tray 2. **[072-211] occurs.**

Y N

Replace the faulty part of the Tray 2 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

073-101 Tray 3 Miss Feed JAM RAP

After the Tray 3 Feed/Lift Motor turned On, the Tray 3 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.3.
- Refer to BSD 3.3.
- Refer to BSD 7.9.
- Power OFF/ON

Procedure

(28CPM Model)

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 [071-101 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The display changes.**

Y N

Check the connections of P/J821, P/J841, P/J548, P/J541 and P/J413. **P/J821, P/J841 P/J548, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J821, P/J841, P/J548, P/J541 and P/J413.

Check the wire 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 wire 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 P548-8 (+) and GND (-) (BSD 8.3 Flag 2 / BSD 8.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5).

A B

Check the wire between J541-10 and J413-B4 for an open circuit or a short circuit (BSD 3.3 Flag 1). **The wire 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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Check the connections of P/J220B, P/J661B, P/J549, P/J541 and P/J413. **P/J220B, P/J661B, P/J549, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J220B, P/J661B, P/J549, P/J541 and P/J413.

Remove the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 4 Feed/Lift Motor.

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 4 Feed/Lift Motor to its original position.

Check the wire between J220B and J549 for an open circuit or a short circuit (BSD 7.9 Flag 1 / BSD 7.11 Flag 1). **The wire 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 12.6/PL 13.8).

Return the Tray 4 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

(33CPM Model)

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 [071-101 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The display changes.**

Y N

Check the connections of P/J821, P/J841, P/J548, P/J541 and P/J413. **P/J821, P/J841 P/J548, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J821, P/J841, P/J548, P/J541 and P/J413.

Check the wire 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 wire 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 P548-8 (+) and GND (-) (BSD 8.3 Flag 2 / BSD 8.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5).

Check the wire between J541-10 and J413-B4 for an open circuit or a short circuit (BSD 3.3 Flag 1). **The wire 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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-103 Tray 3 Pre Feed Sensor].Actuate the Tray 3 Pre Feed Sensor (PL 12.3/PL 13.6) 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 Wire between P/J103B and P/J549 for open circuit (BSD8.1 Flag 6/Flag 7). **The Wire 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 P549-30(+)and GND(-)(BSD8.1 Flag 7). **The voltage is aprox. +5VDC.**

Y N

Replace Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between Tray Module PWB P549-29(+)and GND(-)(BSD8.1 Flag 6). Actuate the Tray 3 Pre Feed Sensor (PL 12.3/PL 13.6) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Pre Feed Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Check the connections of P/J220B, P/J661B, P/J549, P/J541 and P/J413. **P/J220B, P/J661B, P/J549, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J220B, P/J661B, P/J549, P/J541 and P/J413.

Remove the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 4 Feed/Lift Motor.

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 4 Feed/Lift Motor to its original position.

Check the wire between J220B and J549 for an open circuit or a short circuit (BSD 7.9 Flag 1 / BSD 7.11 Flag 1). **The wire 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 12.6/PL 13.8).

Return the Tray 4 Feed/Lift Motor to its original position.

C

Replace the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

073-102 Tray 2 Feed Out Sensor On JAM (Tray 3 Feed) RAP

After the Tray 3 Feed Out Sensor turned On, the Tray 2 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.2.
- Refer to BSD 8.4.
- If a grinding noise was reported or is heard and accompanies the 073-102 code, there may be incorrect gear mesh between TTM Takeaway Clutch (PL 13.8) and it's drive gear, located to the right. Loosen the bracket fixing screws and reposition bracket for best gear mesh without binding.
- 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 [071-100 Tray 2 Feed Out Sensor]. **Actuate the Tray 2 Feed Out Sensor (PL 2.5)** with paper**. The display changes.**

Y N

Check the connections of P/J105, P/J608 and P/J410. **P/J105, P/J608 and P/J410 are connected correctly.**

Y N

Connect P/J105, P/J608 and P/J410.

Check the wire between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The wire 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 9.1).

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 9.1).

A

A

Execute Component Control [073-006 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 12.6/PL 13.8) 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 wire between J826 and J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wire 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 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

073-105 Tray 3 Registration Sensor On JAM RAP

After the Tray 3 Feed Out Sensor turned On, the Registration Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.7.
- Refer to BSD 8.2.
- Refer to BSD 8.4.
- Power OFF/ON

Procedure

(28CPM Model)

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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

A

A

Execute Component Control [071-015 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) can be heard.**

Y N

Check the connections of P/J204 and P/J410. **P/J204 and P/J410 are connected correctly.**

Y N

Connect P/J204 and P/J410.

Measure the resistance of the Takeaway Roll Clutch (PL 2.4) (BSD 8.2 Flag 3). (Between P204-1 and P204-4) **The resistance is approx. 250~100Ohm.**

Y N

Replace the Takeaway Roll Clutch (PL 2.4).

Check the wire between J204 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The wire between J204 and J410 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the MCU PWB (PL 9.1).

Execute Component Control [073-006 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 12.6/PL 13.8) 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 wire between J826 and J552 for an open circuit or a short circuit (BSD 8.4 Flag 1/ BSD 8.6 Flag 1). **The wire 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 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

(33CPM Model)

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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control [071-017 Takeaway Motor 242 ON] or [071-018 Takeaway Motor 145 ON]. **Takeaway Motor(PL 1.1) can be heard.**

Y N

Check the Connection of P/J422. **P/J422 is connected correctly.**

Y N

Connect P/J422.

Measure the voltage between MCU PWB P422-2(+)and GND(-),and P422-5(+)and GND(-) (BSD8.2 Flag 5). **The voltage is aprox. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Takeaway Motor (PL 1.1)

Execute Component Control [073-006 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 12.6/PL 13.8) 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.

B C

B C

Check the wire between J826 and J552 for an open circuit or a short circuit (BSD 8.4 Flag 1/ BSD 8.6 Flag 1). **The wire 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 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

073-210 Tray 3 Lift Up Failure RAP

- After the 2TM-Tray 3 Feed/Lift Motor turned On, the 2TM-Tray 3 Level Sensor did not turn On within the specified time.
- After the TTM-Tray 3 Feed/Lift Motor turned On, the TTM-Tray 3 Level Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 7.9/7.11.
- Reload paper in the tray correctly.
- Remove foreign substances in the tray.
- Power OFF/ON

Procedure

Remove the tray and reinstall. **The Tray 3 Feed/Lift Motor can be heard.**

Y N

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

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 3 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 4 Feed/Lift Motor.

Execute Component Control [073-009 Tray 3 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 3 Feed/Lift Motor to its original position.

Check the wire between J220B and J549 for an open circuit or a short circuit (BSD 7.9 Flag 1 / BSD 7.11 Flag 1). **The wire 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 12.6/PL 13.8).

Return the Tray 4 Feed/Lift Motor to its original position.

Replace the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Check the installation of the Tray 3 Level Sensor (PL 12.3/PL 13.6) 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.

A

A

Execute Component Control [071-208 Tray 3 Level Sensor]. Manually activate the Tray 3 Level Sensor (PL 12.3/PL 13.6). **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 wire between J101B and J549 for an open circuit or a short circuit (BSD 7.9 Flag 2/Flag 3 / BSD 7.11 Flag 2/Flag 3). **The wire 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 P549-22 (+) and GND (-) (BSD 7.9 Flag 3 / BSD 7.11 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P549-24 (+) and GND (-) (BSD 7.9 Flag 2 / BSD 7.11 Flag 3).

Activate the actuator of the Tray 3 Level Sensor (PL 12.3/PL 13.6). **The voltage changes.**

Y N

Replace the Tray 3 Level Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

073-211 Tray 3 Broken RAP

The Tray 3 Paper Size Switch failed.

Initial Actions

- Refer to BSD 7.3/7.5.
- Reload the tray correctly.
- Check the operation of the tray actuator.
- Power OFF/ON

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 3 with Tray 4. **[073-211] occurs.**

Y N

Replace the faulty part of the Tray 3 Actuator.

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.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 3 Actuator. The Tray 3 Actuator is not distorted.

Y N

Install the Tray 3 Paper Size Switch 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 correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

074-101 Tray 4 Miss Feed JAM RAP

After the Tray 4 Feed/Lift Motor turned On, the Tray 4 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.5.
- Refer to BSD 3.3.
- Refer to BSD 7.10.
- Power OFF/ON

Procedure

(28CPM Model)

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 [071-102 Tray 4 Feed Out Sensor]. Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The display changes.**

Y N

Check the connections of P/J825, P/J842, P/J548, P/J541 and P/J413. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J825 and J548 for an open circuit or a short circuit (BSD 8.5 Flag 4/Flag 5/Flag 6). **The wire between J825 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 P548-1 (+) and GND (-) (BSD 8.5 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P548-3 (+) and GND (-) (BSD 8.5 Flag 4).

Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The voltage changes.**

Y N

Replace the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4).

A B

Check the wire between J541-11 and J413-B5 for an open circuit or a short circuit (BSD 3.3 Flag 2). **The wire between J541-11 and J413-B5 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-B5 (+) and GND (-) (BSD 3.3 Flag 2).

Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Check the connections of P/J220A, P/J661A, P/J549, P/J541 and P/J413. **P/J220A, P/J661A, P/J549, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J220A, P/J661A, P/J549, P/J541 and P/J413.

Remove the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 4 Feed/Lift Motor with the Tray 3 Feed/Lift Motor.

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 3 Feed/Lift Motor to its original position.

Check the wire between J220A and J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The wire between J220A 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 12.6/PL 13.8).

Return the Tray 3 Feed/Lift Motor to its original position.

Replace the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

(33CPM Model)

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 [071-102 Tray 4 Feed Out Sensor]. Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The display changes.**

Y N

Check the connections of P/J825, P/J842, P/J548, P/J541 and P/J413. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J825 and J548 for an open circuit or a short circuit (BSD 8.5 Flag 4/Flag 5/Flag 6). **The wire between J825 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 P548-1 (+) and GND (-) (BSD 8.5 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P548-3 (+) and GND (-) (BSD 8.5 Flag 4).

Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The voltage changes.**

Y N

Replace the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4).

Check the wire between J541-11 and J413-B5 for an open circuit or a short circuit (BSD 3.3 Flag 2). **The wire between J541-11 and J413-B5 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-B5 (+) and GND (-) (BSD 3.3 Flag 2).

Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-104 Tray 4 Pre Feed Sensor].Actuate the Tray 4 Pre Feed Sensor (PL 12.3/PL 13.6) with paper . **The display changes.**

Y N

Check the Connection of P/J103A, P/J661A and P/J549. **P/J103A, P/J661A and P/J549 are connected correctly.**

Y N

Connect P/J103A, P/J661A and P/J549.

Check the Wire between P/J103A and P/J549 for open circuit (BSD8.1 Flag 8/Flag 9). **The Wire between P/J103A 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 P549-15(+)and GND(-)(BSD8.1 Flag 9). **The voltage is aprox. +5VDC.**

Y N

Replace Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between Tray Module PWB P549-14(+)and GND(-)(BSD8.1 Flag 8). Actuate the Tray 4 Pre Feed Sensor (PL 12.3/PL 13.6) with paper. **The voltage changes.**

Y N

Replace the Tray 4 Pre Feed Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Check the connections of P/J220A, P/J661A, P/J549, P/J541 and P/J413. **P/J220A, P/J661A, P/J549, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J220A, P/J661A, P/J549, P/J541 and P/J413.

Remove the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 4 Feed/Lift Motor with the Tray 3 Feed/Lift Motor.

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 3 Feed/Lift Motor to its original position.

Check the wire between J220A and J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The wire between J220A 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 12.6/PL 13.8).

Return the Tray 3 Feed/Lift Motor to its original position.

C

C

Replace the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

074-102 Tray 2 Feed Out Sensor On JAM (Tray 4 Feed) RAP

After the Tray 4 Feed Out Sensor turned On, the Tray 2 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.2.
- Refer to BSD 8.4.
- 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 [071-100 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 2.5) with paper. **The display changes.**

Y N

Check the connections of P/J105, P/J608 and P/J410. **P/J105, P/J608 and P/J410 are connected correctly.**

Y N

Connect P/J105, P/J608 and P/J410.

Check the wire between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The wire 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 9.1).

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 9.1).

Execute Component Control [073-006 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Take-away Motor (PL 12.6/PL 13.8) 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 wire between J826 and J552 for an open circuit or a short circuit (BSD 8.4 Flag 1 / BSD 8.6 Flag 1). **The wire 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 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

074-103 Tray 3 Feed Out Sensor On JAM (Tray 4 Feed) RAP

After the Tray 4 Feed Out Sensor turned On, the Tray 3 Feed Out Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.3.
- Refer to BSD 3.3.
- Refer to BSD 8.4.
- 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 [071-101 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The display changes.**

Y N

Check the connections of P/J821, P/J841, P/J548, P/J541 and P/J413. **P/J821, P/J841, P/J548, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J821, P/J841, P/J548, P/J541 and P/J413.

Check the wire 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 wire 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 P548-8 (+) and GND (-) (BSD 8.3 Flag 2 / BSD 8.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5).

A B

A B

Check the wire between J541-10 and J413-B4 for an open circuit or a short circuit (BSD 3.3 Flag 1). **The wire 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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

Execute Component Control [073-006 2TM/TTM Takeaway Motor ON]. **The 2TM/TTM Takeaway Motor (PL 12.6/PL 13.8) 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 wire between J826 and J552 for an open circuit or a short circuit (BSD 8.4 Flag 1/ BSD 8.6 Flag 1). **The wire 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 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the Tray Module PWB (PL 12.6/PL 13.8).

074-105 Tray 4 Registration Sensor On JAM RAP

After the Tray 2 Feed Out Sensor turned On, the Registration Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.7.
- Refer to BSD 8.2.
- Refer to BSD 7.9.
- Power OFF/ON

Procedure

(28CPM Model)

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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control [073-015 Takeaway Roll Clutch ON]. **The Takeaway Roll Clutch (PL 2.4) can be heard.**

Y N

Check the connections of P/J204 and P/J410. **P/J204 and P/J410 are connected correctly.**

Y N

Connect P/J204 and P/J410.

Measure the resistance of the Takeaway Roll Clutch (PL 2.4) (BSD 8.2 Flag 3). (Between P204-1 and P204-4) **The resistance is approx. 250~100Ohm.**

Y N

Replace the Takeaway Roll Clutch (PL 2.4).

Check the wire between J204 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 4). **The wire between J204 and J410 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

(33CPM Model)

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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

A B

A B

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 9.1).

Execute Component Control [071-017 Takeaway Motor 242 ON] or [071-018 Takeaway Motor 145 ON]. **Takeaway Motor(PL 1.1) can be heard.**

Y N

Check the Connection of P/J422. **P/J422 is connected correctly.**

Y N

Connect P/J422.

Measure the voltage between MCU PWB P422-2(+)and GND(-),and P422-5(+)and GND(-) (BSD8.2 Flag 5). **The voltage is aprox. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Takeaway Motor (PL 1.1)

Replace the MCU PWB (PL 9.1).

074-210 Tray 4 Lift Up Failure RAP

- After the 2TM-Tray 4 Feed/Lift Motor turned On, the 2TM-Tray 4 Level Sensor did not turn On within the specified time.
- After the TTM-Tray 4 Feed/Lift Motor turned On, the TTM-Tray 4 Level Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 7.10/7.12.
- Reload paper in the tray correctly.
- Remove foreign substances in the tray.
- Power OFF/ON

Procedure

Remove the tray and reinstall. **The Tray 4 Feed/Lift Motor can be heard.**

Y N

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Check the connections of P/J220A, P/J661A and P/J549. **P/J220A, P/J661A and P/J549 are connected correctly.**

Y N

Connect P/J220A, P/J661A and P/J549.

Remove the Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) and the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Replace the Tray 3 Feed/Lift Motor with the Tray 4 Feed/Lift Motor.

Execute Component Control [073-010 Tray 4 Feed/Lift Motor ON]. **The Tray 3 Feed/Lift Motor (PL 12.3/PL 13.6) can be heard.**

Y N

Return the Tray 4 Feed/Lift Motor to its original position.

Check the wire between J220A and J549 for an open circuit or a short circuit (BSD 7.10 Flag 1 / BSD 7.12 Flag 1). **The wire between J220A 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 12.6/PL 13.8).

Return the Tray 3 Feed/Lift Motor to its original position.

Replace the Tray 4 Feed/Lift Motor (PL 12.3/PL 13.6).

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Check the installation of the Tray 4 Level Sensor (PL 12.3/PL 13.6) and the operation of the actuator. **The Tray 4 Level Sensor is installed correctly and the actuator works.**

Y N

Reinstall the Tray 4 Level Sensor.

A

A

Execute Component Control [071-209 Tray 4 Level Sensor]. Manually activate the Tray 4 Level Sensor (PL 12.3/PL 13.6). **The display changes.**

Y N

Check the connections of P/J101A, P/J661A and P/J549. **P/J101A, P/J661A and P/J549 are connected correctly.**

Y N

Connect P/J101A, P/J661A and P/J549.

Check the wire between J101A and J549 for an open circuit or a short circuit (BSD 7.10 Flag 2/Flag 3 / BSD 7.12 Flag 2/Flag 3). **The wire between J101A 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-A7 (+) and GND (-) (BSD 7.10 Flag 3 / BSD 7.12 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P549-A9 (+) and GND (-) (BSD 7.10 Flag 2 / BSD 7.12 Flag 2).

Activate the actuator of the Tray 4 Level Sensor (PL 12.3/PL 13.6). **The voltage changes.**

Y N

Replace the Tray 4 Level Sensor (PL 12.3/PL 13.6).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

074-211 Tray 4 Broken RAP

The Tray 4 Paper Size Switch failed.

Initial Actions

- Refer to BSD 7.4/7.6.
- Reload the tray correctly.
- Check the operation of the tray actuator.
- Power OFF/ON

Procedure

[For 2TM]

Remove Trays 3 and 4. Replace Tray 3 with Tray 4. **[074-211] occurs.**

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

[For TTM]

Check the Tray 4 Actuator. **The Tray 4 Actuator is not distorted.**

Y N

Replace the faulty part of the Tray 4 Actuator.

Check the installation of the Tray 4 Paper Size Switch. **The Tray 4 Paper Size Switch is installed correctly.**

Y N

Install the Tray 4 Paper Size Switch correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

075-135 MPT Registration Sensor On JAM RAP

After the MPT Feed Solenoid turned On, the Registration Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 8.7.
- Refer to BSD 8.1.
- Power OFF/ON

Procedure

Check the guide. **The guide is set correctly.**

Y N

Set the guide correctly.

Check the installation of the MPT. **The MPT is installed correctly.**

Y N

Install the MPT correctly.

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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control [071-036 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).

Execute Component Control [071-012 MPT Feed Solenoid ON]. **The MPT Feed Solenoid (PL 7.2) can be heard.**

Y N

Check the connections of P/J205 and P/J411. **P/J205 and P/J411 are connected correctly.**

Y N

Connect P/J205 and P/J411.

Measure the resistance of the MPT Feed Solenoid (PL 7.2) (BSD 8.1 Flag 1). (Between P205-1 and P205-2). **The resistance is approx. 90Ohm.**

Y N

Replace the MPT 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 9.1).

Replace the MCU PWB (PL 9.1).

077-101 Registration Sensor Off JAM RAP

After the Registration Clutch turned On, the Registration Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 8.7.
- 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 [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/J104. **P/J104 is connected correctly.**

Y **N**

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control [089-002 Registration Clutch ON]. **The Registration Clutch (PL 2.4) can be heard.**

Y **N**

Check the connection of P/J215. **P/J215 is connected correctly.**

Y **N**

Connect P/J215.

A **B**

A **B**

Measure the resistance of the Registration Clutch (PL 2.4) between P215-1 and P215-2 (BSD 8.7 Flag 3). **The resistance is approx. 240Ohm.**

Y **N**

Replace the Registration Clutch (PL 2.4).

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 9.1).

Replace the MCU PWB (PL 9.1).

077-103 Fuser Exit Sensor Off JAM RAP

After the Fuser Exit Sensor turned On, the Fuser Exit Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 10.2.
- Power OFF/ON

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y N

Install the Fuser correctly.

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.

Open Left Upper Cover Assembly and verify that Exit 1 Gate (PL 6.2) 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 6.4 - PL 6.6). **Operation is satisfactory.**

Y N

Repair as required (PL 6.4 - PL 6.6).

Execute Component Control [010-100 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 5.1). **The display changes.**

Y N

Check the connections of P/J125 and P/J410. **P/J125 and P/J410 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 between J125 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 P410-7 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

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 5.1).

A B

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-036 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).

Replace the MCU PWB (PL 9.1).

077-104 Exit Sensor off (too short) JAM RAP

After the Fuser Exit Sensor turned On, the Fuser Exit Sensor turned Off before the specified time.

Initial Actions

Refer to BSD 10.2.

Power OFF/ON

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y **N**

Install the Fuser correctly.

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 [010-100 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 5.1). **The display changes.**

Y **N**

Check the connections of P/J125 and P/J410. **P/J125 and P/J410 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 between J125 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 P410-7 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y **N**

Replace the MCU PWB (PL 9.1).

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 5.1).

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-036 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).

A

A

Replace the MCU PWB (PL 9.1).

077-106 Fuser Exit Sensor On JAM RAP

After the Registration Clutch turned On, the Fuser Exit Sensor did not turn On within the specified time.

Initial Actions

Refer to BSD 9.4/10.2.

Power OFF/ON

Procedure

Check the installation of the Fuser. **The Fuser is installed correctly.**

Y N

Install the Fuser correctly.

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 [010-100 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 5.1). **The display changes.**

Y N

Check the connections of P/J125 and P/J410. **P/J125 and P/J410 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 between J125 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 P410-7 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

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 5.1).

Replace the MCU PWB (PL 9.1).

Execute Component Control [071-036 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).

A

A

Execute Component Control [091-004 DTS ON]. Measure the voltage between the MCU PWB P403-A5 (+) and GND (-) (BSD 9.4 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J403-A5 and J500-11 for an open circuit or a short circuit (BSD 9.4 Flag 1). **The wire between J403 and J500 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Re place the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the HVPS (PL 9.1). if the problem persists, replace the MCU PWB (PL 9.1).

077-109 IOT Exit Sensor ON JAM Straight RAP

After the Fuser Exit Sensor turned On, the Exit 2 Sensor did not turn On within the specified time.

Initial Actions

- Refer to BSD 10.3.
- Refer to BSD 10.4.
- Power OFF/ON

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 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.

Open Left Upper Cover Assembly and verify that Exit 1 Gate (PL 6.2) 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 6.4 - PL 6.6). **Operation is satisfactory.**

Y N

Repair as required (PL 6.4 - PL 6.6).

Execute Component Control [071-110 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 6.4) 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 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Execute Component Control [047-023 Exit 2 Motor ON]. **The Exit 2 Motor (PL 6.4) can be heard.**

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.**

A

Y N

Repair the open circuit or short circuit.

Measure the resistance of the Exit 2 Motor (PL 6.4) between J208-1 (COM) and each point of J208-2/3/4/5 (BSD 10.4 Flag 2). **The resistance is approx. 10Ohm.**

Y N

Replace the Exit 2 Motor (PL 6.4).

Replace the Exit 2 Motor (PL 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Execute Component Control [047-024 Exit Gate Solenoid ON]. **The Exit Gate Solenoid (PL 6.4) 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 6.4) between J209-1 and J209-2 (BSD 10.4 Flag 4). **The resistance is approx. 160Ohm.**

Y N

Replace the Exit 2 Motor (PL 6.4).

Replace the Exit Gate Solenoid (PL 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Exit PWB (PL 9.1).

A

077-113 IOT Exit Sensor OFF JAM Straight RAP

After the Exit 2 Sensor turned On, the Exit 2 Sensor did not turn Off within the specified time.

Initial Actions

- Refer to BSD 10.3.
- Refer to BSD 10.4.
- Power OFF/ON

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 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 [071-110 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 6.4) 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 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Execute Component Control [047-023 Exit 2 Motor ON]. **The Exit 2 Motor (PL 6.4) can be heard.**

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 6.4) between J208-1 (COM) and each point of J208-2/3/4/5 (BSD 10.4 Flag 2). **The resistance is approx. 10Ohm.**

Y N

Replace the Exit 2 Motor (PL 6.4).

Replace the Exit 2 Motor (PL 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Exit PWB (PL 9.1).

077-114 Exit 2 Sensor Static JAM RAP

Paper remains on the Exit 2 Sensor.

Initial Actions

- Refer to BSD 10.3.
- Power OFF/ON

Procedure

Execute Component Control [071-110 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 6.4) 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 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Exit PWB (PL 9.1).

077-129 Registration Sensor On JAM (Duplex Feed/Stop Case) RAP

In the case where Duplex feeding stops, the Registration Sensor did not turn On within the specified time after the Duplex Motor turned On.

Initial Actions

- Refer to BSD 8.7.
- Refer to BSD 9.3.
- Power OFF/ON

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 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 [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/J104. **P/J104 is connected correctly.**

Y **N**

Connect P/J104.

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 9.1).

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 9.1).

A

Execute Component Control [073-016 Duplex Motor ON]. **The Duplex Motor (PL 8.1) can be heard.**

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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Replace the Duplex PWB (PL 8.1).

077-130 Duplex Out Sensor On JAM RAP

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

- Refer to BSD 8.7.
- Refer to BSD 9.3.
- Refer to BSD 10.5.

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 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 [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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Execute Component Control [071-105 Duplex Sensor]. Actuate the Duplex Sensor (PL 8.1) 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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Execute Component Control [073-016 Duplex Motor ON]. **The Duplex Motor (PL 8.1) can be heard.**

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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Replace the Duplex PWB (PL 8.1).

077-131 Duplex Wait Sensor On JAM RAP

After the Exit 2 Motor turned On, the Duplex Sensor does not turn On within the specified time.

Initial Actions

- Refer to BSD 10.4.
- Refer to BSD 10.5.
- Power OFF/ON

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 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 [071-105 Duplex Sensor]. Actuate the Duplex Sensor (PL 8.1) 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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Execute Component Control [073-016 Duplex Motor ON]. **The Duplex Motor (PL 8.1) can be heard.**

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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Execute Component Control [047-023 Exit 2 Motor ON]. **The Exit 2 Motor (PL 6.4) can be heard.**

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 6.4) between J208-1 (COM) and each point of J208-2/3/4/5 (BSD 10.4 Flag 2). **The resistance is approx. 10Ohm.**

Y N

Replace the Exit 2 Motor (PL 6.4).

Replace the Exit 2 Motor (PL 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Duplex PWB (PL 8.1).

077-211 Detected different Type Tray Module RAP

A Tray Module with different specifications is connected.

Initial Actions

- Refer to BSD 1.2/3.3.
- Power OFF/ON
- Reconnect the connection cable of the TM.

Procedure

Check the settings for the DIP SW on the Tray Module PWB. **The specifications are correct.**

Y N

Set the correct specifications.

Check the connection of each MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the connection of each 2TM PWB or TTM PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **[077-211] reoccurs.**

Y N

End

Check the wire between J541 and J413 for an open circuit or a short circuit (BSD 1.2 Flag 3 / BSD 3.3 Flag 5/Flag 6). **The wire between J541 and J413 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-A5 (+) and GND (-) (BSD 1.2 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the 2TM PWB (PL 12.6/PL 13.8) or the TTM PWB (PL 12.6/PL 13.8). If the problem persists, replace the MCU PWB (PL 9.1).

077-300 IOT Front Cover Open RAP

The IOT Front Cover is open.

Initial Actions

- Refer to BSD 1.3.
- Power OFF/ON
- Opening/closing of the IOT Front Cover.

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 [071-303 Front Cover Interlock Switch]. **Open/close the IOT Front Cover. The display changes.**

Y N

Check the connections of P/J121 and P/J405. **P/J121 and P/J405 are connected correctly.**

Y N

Connect P/J121 and P/J405.

Check the wire between J405 and J121 for an open circuit or a short circuit (BSD 1.3 Flag 5/Flag 6). **The wire between J405 and J121 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 Cover Interlock Switch (PL 10.1) between J405-3 and J405-4 (BSD 1.3 Flag 5/Flag 6). **The wire between J405-3 and J405-4 is connecting successfully when the Front Cover is closed, and is insulated when the cover is open.**

Y N

Replace the Front Cover Interlock Switch (PL 10.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-301 Left Hand Interlock Open RAP

The L/H Cover Assembly is open.

Initial Actions

- Refer to BSD 1.2/1.3.
- Power OFF/ON
- 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 [071-300 L/H Cover Interlock Switch]. **Open and close the L/H Cover Assembly. The display changes.**

Y N

Check the connections of P/J120 and P/J405. **P/J120 and P/J405 are connected correctly.**

Y N

Connect P/J120 and P/J405.

Check the wire between J405 and J120 for an open circuit or a short circuit (BSD 1.3 Flag 3/Flag 4). **The wire between J405 and J120 is 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 2.6) between J405-1 and J405-2 (BSD 1.3 Flag 3/Flag 4). **The wire between J405-1 and J405-2 is connecting successfully when the L/H Cover Assembly is closed, and is insulated when the cover is open.**

Y N

Replace the L/H Cover Interlock Switch (PL 2.6).

Measure the voltage between the MCU PWB P405-2 (+) and GND (-) (BSD 1.3 Flag 3/Flag 4). **The voltage is approx. +24VDC.**

Y N

Measure the voltage between the MCU PWB P400-1 (+) and GND (-) (BSD 1.2 Flag 1). **The voltage is approx. +24VDC.**

Y N

Check the connections of P/J526 and P/J400. P/J526 and P/J400 are connected correctly. **P/J526 and P/J400 are connected correctly.**

Y N

Connect P/J526 and P/J400.

A B C D

Check the wire between J526 and J400 for an open circuit or a short circuit (BSD 1.2 Flag 1). **The wire between J526 and J400 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the connections of P/J523 and P/J301. **P/J523 and P/J301 are connected correctly.**

Y N

Connect P/J523 and P/J301.

Check the wire between J523 and J301 for an open circuit or a short circuit. **The wire between J523 and J301 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the ESS PWB P301-3 (+) and GND (-). **The voltage is approx. +3.3VDC.**

Y N

Replace the ESS PWB (PL 9.2).

Replace the Power Unit (PL 9.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-305 Tray Module Left Hand Cover Interlock Open RAP

- The 2TM Cover is open.
- The TTM Cover is open.

Initial Actions

- Refer to BSD 1.4.
- Power OFF/ON
- Opening/closing of the Left Cover of the 2TM or TTM.

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 12.4/PL 13.7).

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 (PL 12.4/PL 13.7) correctly.

Execute Component Control [071-301 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 of P/J554, FS812 and FS813. **P/J554, FS812 and FS813 are connected correctly.**

Y N

Connect P/J554, FS812 and FS813.

Check the wire between J554-2 and FS812, and between J554-1 and FS813 for an open circuit or a short circuit (BSD 1.4 Flag 3/Flag 4). **The wires between J554-2 and FS812, and between J554-1 and FS813 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 Left Cover Interlock Switch (PL 12.4/PL 13.7) between FS813 and FS812 (BSD 1.4 Flag 3/Flag 4). **The wire between FS813 and FS812 is connecting successfully when the 2TM Cover or TTM Cover is closed, and is insulated when the cover is open.**

Y N

Replace the Tray Module Left Cover Interlock Switch (PL 12.4/PL 13.7).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the Tray Module PWB (PL 12.6/PL 13.8).

077-307 DUP Cover Open RAP

The DUP Cover is open.

Initial Actions

- Refer to BSD 1.4.
- Power OFF/ON
- Opening/closing of the DUP Cover.

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 8.1). **The Duplex Open Switch (PL 8.1) is installed correctly.**

Y N

Install the Duplex Open Switch (PL 8.1) correctly.

Execute Component Control [071-305 Duplex Open Switch]. **Open and close the DUP Cover. The display changes.**

Y N

Check the connections of P/J124 and P/J541. **P/J124 and P/J541 are connected correctly.**

Y N

Connect P/J124 and P/J541.

Check the wire between J124 and J541 for an open circuit or a short circuit (BSD 1.4 Flag 5/Flag 6). **The wire between J124 and J541 is 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 (PL 8.1) between J541-4 and J541-5 (BSD 1.4 Flag 5/Flag 6). **The wire between J541-4 and J541-5 is connecting successfully when the DUP Cover is closed, and is insulated when the cover is open.**

Y N

Replace the Duplex Open Switch (PL 8.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-308 Left Hand HIGH Interlock Open RAP

The L/H-H Cover is open.

Initial Actions

- Refer to BSD 1.4.
- Power OFF/ON
- Opening/closing of the IOT L/H-H Cover.

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 [071-304 Exit 2 Interlock Switch]. Open/close the IOT L/H-H Cover. **The display changes.**

Y N

Check the connections of P/J434, P/J116, J606 and SJ1. **The P/J434, P/J116, J606 and SJ1 are connected correctly.**

Y N

Connect P/J434, P/J116, J606 and SJ1.

Check the wire between J434 and J116 for an open circuit or a short circuit (BSD 1.4 Flag 7/Flag 8). **The wire between J434 and J116 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Exit 2 Interlock Switch (PL 6.4) between J434-12 and J434-13 (BSD 1.4 Flag 7/Flag 8). **The wire between J434-12 and J434-13 is connecting successfully when the IOT L/H-H Cover is closed, and is insulated when the cover is open.**

Y N

Replace the Exit 2 Interlock Switch (PL 6.4).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-309 Left Hand Low Interlock Open RAP

The L/H Lower Cover is open.

Initial Actions

- Refer to BSD 1.4.
- Power OFF/ON
- Opening/closing the L/H Lower Cover.

Procedure

Check opening/closing of the L/H Lower Cover. **The L/H Lower Cover can be opened/closed.**

Y N

Reinstall the L/H Lower Cover (PL 2.5).

Check the installation of the L/H Lower Cover Interlock Switch. **The L/H Lower Cover Interlock Switch is installed correctly.**

Y N

Install the L/H Lower Cover Interlock Switch (PL 2.5) correctly.

Execute Component Control [071-302 L/H Lower Cover Interlock Switch]. Open/close the L/H Lower Cover. **The display changes.**

Y N

Check the connections of P/J106 and P/J410. **P/J106 and P/J410 are connected correctly.**

Y N

Connect P/J106 and P/J410.

Check the wire between J106 and J410 for an open circuit or a short circuit (BSD 1.4 Flag 1/Flag 2). **The wire between J106 and J410 is 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 Lower Cover Interlock Switch (PL 2.5) between J410-11 and J410-10 (BSD 1.4 Flag 1/Flag 2). **The wire between J410-11 and J410-10 is connecting successfully when the L/H Lower Cover is closed, and is insulated when the cover is open.**

Y N

Replace the L/H Lower Cover Interlock Switch (PL 2.5).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-310 Controller Failed to send image RAP

The MCU PWB did not receive the ESS PWB image-ready signal within the specified time.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the ROM version by executing NVM[740-007 ROM Version]. **The ROM is the latest version.**

Y N

Replace the ROM with the latest version.

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

077-329 Main Motor Stop Error RAP

Due to MCU PWB control failure, the Main Motor does not stop when no paper is being fed.

Initial Actions

- Refer to BSD 3.1.
- Power OFF/ON

Procedure

Check the ROM version by executing NVM[740-007 ROM Version]. **The ROM is the latest version.**

Y N

Replace the ROM with the latest version.

Replace the MCU PWB (PL 9.1).

077-900 Registration Sensor Static JAM RAP

Paper remains on the Registration Sensor.

Initial Actions

- Refer to BSD 8.7.
- Power OFF/ON

Procedure

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/J104. **P/J104 is connected correctly.**

Y N

Connect P/J104.

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 9.1).

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 9.1).

Verify the condition of the Registration Clutch wires (BSD 8.7) (PL 2.4).

If the wires are good, replace the MCU PWB (PL 9.1).

077-901 Fuser Exit Sensor Static JAM RAP

Paper remains on the Fuser Exit Sensor.

Initial Actions

- Refer to BSD 10.2.
- Power OFF/ON

Procedure

Execute Component Control [010-100 Fuser Exit Sensor]. Manually activate the actuator of the Fuser Exit Sensor (PL 5.1). **The display changes.**

Y N

Check the connections of P/J125 and P/J410. **P/J125 and P/J410 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 between J125 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 P410-7 (+) and GND (-) (BSD 10.2 Flag 6). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

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 5.1).

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

077-902 Exit.Sensor 2 On JAM standby RAP

Paper remains on the Exit 2 Sensor.

Initial Actions

Refer to BSD 10.3.

Power OFF/ON

Procedure

Execute Component Control [071-110 Exit 2 Sensor]. Actuate the Exit 2 Sensor (PL 6.4) 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 6.4). If the problem persists, replace the Exit PWB (PL 9.1).

Replace the Exit PWB (PL 9.1).

077-904 Tray 2 Feed Out Sensor Static JAM RAP

Paper remains on the Tray 2 Feed Out Sensor.

Initial Actions

- Refer to BSD 8.2.
- Power OFF/ON

Procedure

Execute Component Control [071-100 Tray 2 Feed Out Sensor]. Actuate the Tray 2 Feed Out Sensor (PL 2.5) with paper. **The display changes.**

Y N

Check the connections of P/J105, P/J608 and P/J410. **P/J105, P/J608 and P/J410 are connected correctly.**

Y N

Connect P/J105, P/J608 and P/J410.

Check the wire between J105 and J410 for an open circuit or a short circuit (BSD 8.2 Flag 1/Flag 2). **The wire 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 9.1).

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 9.1).

Replace the MCU PWB (PL 9.1).

077-905 Tray 3 Feed Out Sensor Static JAM RAP

Paper remains on the Tray 3 Feed Out Sensor.

Initial Actions

- Refer to BSD 8.3.
- Refer to BSD 3.3.
- Power OFF/ON

Procedure

Execute Component Control [071-101 Tray 3 Feed Out Sensor]. Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The display changes.**

Y N

Check the connections of P/J821, P/J841, P/J548, P/J541 and P/J413. **P/J821, P/J841, P/J548, P/J541 and P/J413 are connected correctly.**

Y N

Connect P/J821, P/J841, P/J548, P/J541 and P/J413.

Check the wire 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 wire 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 P548-8 (+) and GND (-) (BSD 8.3 Flag 2 / BSD 8.5 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5).

Check the wire between J541-10 and J413-B4 for an open circuit or a short circuit (BSD 3.3 Flag 1). **The wire 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 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

A

A

Replace the MCU PWB (PL 9.1).

077-906 Tray 4 Feed Out Sensor Static JAM RAP

Paper remains on the Tray 4 Feed Out Sensor.

Initial Actions

- Refer to BSD 8.5.
- Refer to BSD 3.3.
- Power OFF/ON

Procedure

Execute Component Control [071-102 Tray 4 Feed Out Sensor]. Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The display changes.**

Y N

Check the connections of P/J825, P/J842, P/J548, P/J541 and P/J413. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J825 and J548 for an open circuit or a short circuit (BSD 8.5 Flag 4/Flag 5/Flag 6). **The wire between J825 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 P548-1 (+) and GND (-) (BSD 8.5 Flag 5). **The voltage is approx. +5VDC.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Measure the voltage between the Tray Module PWB P548-3 (+) and GND (-) (BSD 8.5 Flag 4).

Actuate the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4) with paper. **The voltage changes.**

Y N

Replace the Tray 4 Feed Out Sensor (PL 12.5/PL 13.4).

Check the wire between J541-11 and J413-B5 for an open circuit or a short circuit (BSD 3.3 Flag 2). **The wire between J541-11 and J413-B5 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-B5 (+) and GND (-) (BSD 3.3 Flag 2).

Actuate the Tray 3 Feed Out Sensor (PL 12.5/PL 13.5) with paper. **The voltage changes.**

Y N

Replace the Tray Module PWB (PL 12.6/PL 13.8).

Replace the MCU PWB (PL 9.1).

A

A

Replace the MCU PWB (PL 9.1).

077-907 Duplex Sensor Static JAM RAP

Paper remains on the Duplex Sensor.

Initial Actions

- Refer to BSD 10.5.
- Power OFF/ON

Procedure

Execute Component Control [071-105 Duplex Sensor]. Actuate the Duplex Sensor (PL 8.1) 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 10.5 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 8.1). If the problem persists, replace the Duplex PWB (PL 8.1).

Replace the Duplex PWB (PL 8.1).

081-799 No registered destination RAP

The Fax Send destination telephone no. is not registered in the Address Book.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Check the entries in the Address Book.

Check the Send destination telephone no. and repeat the operation.

Procedure

Pull out and insert the FCB PWB (PL 9.3). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the FCB PWB (PL 9.3).

091-401 Drum Life Near To End RAP

The Xero/Developer Cartridge needs to be replaced soon.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/Flag 2). **The wire between P126 and J419 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 J419-1 (+) and GND (-) (BSD 9.1 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

091-912 Xero/Developer Cartridge Set Fail RAP

The Xero/Developer Cartridge is not installed.

Initial Actions

- Refer to BSD 1.2/1.3/9.3.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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.

Execute Component Control[091-200 Xero/Developer Cartridge DETECT]. Install the Xero/Developer Cartridge. **The display changes.**

Y N

Check the connections of P/J404, P/J403 and P/J400. **P/J404, P/J403 and P/J400 are connected correctly.**

Y N

Connect P/J404, P/J403 and P/J400.

Check the conductivity of the XERO Interlock Switch (PL 4.2) between J404-1 and J404-3 (BSD 1.3 Flag 1/Flag 2). The wire between J404-1 and J404-3 is connecting successfully when the Xero/Developer Cartridge is installed, **and is insulated when the cartridge is removed.**

Y N

Replace the XERO Interlock Switch (PL 4.2).

Check the conductivity of the loop circuit in the Xero/Developer Cartridge (PL 4.1) between J610-3 and J610-7 (BSD 9.3 Flag 3). **The wire between J610-3 and J610-7 is conducting without an open circuit or a short circuit.**

Y N

Check the Xero/Developer Cartridge (PL 4.1).

Measure the voltage between the MCU PWB P403-B11 (+) and GND (-) (BSD 9.3 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P404-1 (+) and GND (-) (BSD 1.3 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J400 and J526 for an open circuit or a short circuit (BSD 1.2 Flag 1). **The wire between J400 and J526 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 Power Unit P526-3 (+) and GND (-) (BSD 1.2 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the Power Unit.

Replace the MCU PWB (PL 9.1).

Replace the MCU PWB (PL 9.1).

091-913 Xero/Developer Cartridge End of Life RAP

It is time to replace the Xero/Developer Cartridge.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/ Flag 2). **The wire between P126 and J419 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 J419-1 (+) and GND (-) (BSD 9.1 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

091-914 Xero/Developer Cartridge CRUM Transmission Failure RAP

Transmission error occurred between the XERO CRUM Tag in the Xero/Developer Cartridge and the CRUM ASIC in the MCU PWB.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/ Flag 2). **The wire between P126 and J419 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 J419-1 (+) and GND (-) (BSD 9.1 Flag 1). The voltage is approx. +5VDC.

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

091-915 Xero/Developer Cartridge CRUM Data Write Failure RAP

Data write error of the XERO CRUM Tag in the Xero/Developer Cartridge.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/ Flag 2). **The wire between P126 and J419 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 J419-1 (+) and GND (-) (BSD 9.1 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

091-916 Drum CRUM Data Mismatch RAP

An invalid Xero/Developer Cartridge was installed.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419. Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/ Flag 2). **The wire between P126 and J419 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 J419-1 (+) and GND (-) (BSD 9.1 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

092-910 ATC Sensor Failure RAP

The ATC Sensor failed.

Initial Actions

- Refer to BSD 9.3.
- Power OFF/ON
- Check that the Xero/Developer Cartridge Seals have been removed.
- Reload the Xero/Developer Cartridge.

Procedure

Check the Xero/Developer 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 (PL 4.2) correctly.

Check the connection of the MCU PWB P/J403 and the Xero/Developer Cartridge P/J610. **P/J403 and P/J610 are connected correctly.**

Y N

Connect P/J403 and P/J610.

Check the wire between J403 and P610 for an open circuit or a short circuit (BSD 9.3 Flag 4/ Flag 5). **The wire between J403 and P610 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-B12 (+) and GND (-) (BSD 9.3 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the XERO CRUM PWB P/J126. **P/J126 is connected correctly.**

Y N

Connect P/J126.

Check the wire between P126 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 1/ Flag 2). **The wire between P126 and J419 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

A

A

Measure the voltage between the MCU PWB J419-1 (+) and GND (-) (BSD 9.1 Flag 1). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the XERO CRUM PWB (PL 4.2). if the problem persists, replace the MCU PWB (PL 9.1).

093-312 Dispense Motor Failure RAP

The toner density in the Xero/Developer Cartridge did not rise since the Dispense Motor turned On.

Initial Actions

- Refer to BSD 9.3.
- Power OFF/ON
- Reload the Toner Cartridge.

Procedure

Check the Xero/Developer Cartridge Seals. **The seals have been removed.**

Y N

Remove the Xero/Developer Cartridge Seals.

Execute Component Control [093-001 Dispense Motor ON]. **The Dispense Motor can be heard.**

Y N

Measure the voltage between the MCU PWB J420-2 (+) and GND (-) (BSD 9.3 Flag 1). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Execute Component Control [093-001 Dispense Motor ON]. Measure the voltage between the MCU PWB J420-1 (+) and GND (-) (BSD 9.3 Flag 2). **The voltage is approx. 0VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J420 and J216 for an open circuit or a short circuit (BSD 9.3 Flag 1/Flag 2). **The wire between J420 and J216 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Dispense Motor (PL 4.2).

Check the Transport Pipe. **The Transport Pipe is not blocked.**

Y N

Clear the blockage.

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the MCU PWB (PL 9.1).

093-406 Toner Black Pre Near Empty RAP

Toner in the Toner Cartridge is running low. However, it can be still used.

Initial Actions

- Refer to BSD 9.3.
- Power OFF/ON
- Check that the Xero/Developer Cartridge Seals have been removed.
- Reload the Xero/Developer Cartridge.
- Reload the Toner Cartridge.

Procedure

Check the Toner 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 connection of P/J403. **P/J403 is connected correctly.**

Y N

Connect P/J403.

Check the wire between J403 and P610 for an open circuit or a short circuit (BSD 9.3 Flag 4/Flag 5). **The wire between J403 and P610 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-B12 (+) and GND (-) (BSD 9.3 Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Execute Component Control [093-001 Dispense Motor ON]. **The Dispense Motor can be heard.**

Y N

Measure the voltage between the MCU PWB J420-2 (+) and GND (-) (BSD 9.3 Flag 1). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Execute Component Control [093-001 Dispense Motor ON].

Measure the voltage between the MCU PWB J420-1 (+) and GND (-) (BSD 9.3 Flag 2). **The voltage is approx. 0VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J420 and J216 for an open circuit or a short circuit (BSD 9.3 Flag 1/Flag 2). **The wire between J420 and J216 is conducting without an open circuit or a short circuit.**

A

Y **N**

Repair the open circuit or short circuit.

Replace the Dispense Motor (PL 4.2).

Check the Transport Pipe. **The Transport Pipe is not blocked.**

Y **N**

Clear the blockage.

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the Toner Cartridge (PL 4.1), the Toner CRUM PWB (PL 4.2). if the problem persists, replace the MCU PWB (PL 9.1).

093-912 Toner Black Empty RAP

The Toner Cartridge is empty.

Initial Actions

- Refer to BSD 9.3.
- Power OFF/ON
- Check that the Xero/Developer Cartridge Seals have been removed.
- Reload the Xero/Developer Cartridge.
- Reload the Toner Cartridge.

Procedure

Check the Toner 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 connection of P/J403. **P/J403 is connected correctly.**

Y **N**

Connect P/J403.

Check the wire between J403 and P610 for an open circuit or a short circuit (BSD 9.3 Flag 4/ Flag 5). **The wire between J403 and P610 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-B12 (+) and GND (-) (BSD 9.3 Flag 4). **The voltage is approx. +5VDC.**

Y **N**

Replace the MCU PWB (PL 9.1).

Execute Component Control [093-001 Dispense Motor ON]. **The Dispense Motor can be heard.**

Y **N**

Measure the voltage between the MCU PWB J420-2 (+) and GND (-) (BSD 9.3 Flag 1). **The voltage is approx. +24VDC.**

Y **N**

Replace the MCU PWB (PL 9.1).

Execute Component Control [093-001 Dispense Motor ON].

Measure the voltage between the MCU PWB J420-1 (+) and GND (-) (BSD 9.3 Flag 2). **The voltage is approx. 0VDC.**

Y **N**

Replace the MCU PWB (PL 9.1).

Check the wire between J420 and J216 for an open circuit or a short circuit (BSD 9.3 Flag 1/Flag 2). **The wire between J420 and J216 is conducting without an open circuit or a short circuit.**

A

A

Y N

Repair the open circuit or short circuit.

Replace the Dispense Motor (PL 4.2).

Check the Transport Pipe. The Transport Pipe is not blocked.

Y N

Clear the blockage.

Replace the Xero/Developer Cartridge (PL 4.1). If the problem persists, replace the Toner Cartridge (PL 4.1). if the problem persists, replace the Toner CRUM PWB (PL 4.2). if the problem persists, replace the MCU PWB (PL 9.1).

093-924 Toner Cartridge CRUM Transmission Failure RAP

Transmission error occurred between the Toner CRUM Tag in the Toner Cartridge and the CRUM ASIC in the MCU PWB.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Toner Cartridge.

Procedure

Check the Toner 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 Toner CRUM PWB. **The Toner CRUM PWB is installed correctly.**

Y N

Install the Toner CRUM PWB (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the Toner CRUM PWB P/J127. **P/J127 is connected correctly.**

Y N

Connect P/J127.

Check the wire between P127 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 3/ Flag 4). **The wire between P127 and J419 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 J419-6 (+) and GND (-) (BSD 9.1 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Toner Cartridge (PL 4.1). If the problem persists, replace the Toner CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

093-925 Toner CRUM Data Broken Failure RAP

Data write error of the XERO CRUM Tag in the Toner Cartridge.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Toner Cartridge.

Procedure

Check the Toner 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 Toner CRUM PWB. **The Toner CRUM PWB is installed correctly.**

Y N

Install the Toner CRUM PWB (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. **P/J419 is connected correctly.**

Y N

Connect P/J419.

Check the connection of the Toner CRUM PWB P/J127. **P/J127 is connected correctly.**

Y N

Connect P/J127.

Check the wire between P127 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 3/ Flag 4). **The wire between P127 and J419 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 J419-6 (+) and GND (-) (BSD 9.1 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Toner Cartridge (PL 4.1). If the problem persists, replace the Toner CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

093-926 Toner CRUM Data Mismatch Failure RAP

A Toner Cartridge with invalid specification was installed.

Initial Actions

- Refer to BSD 9.1.
- Power OFF/ON
- Reload the Toner Cartridge.

Procedure

Check the Toner 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 Toner CRUM PWB. **The Toner CRUM PWB is installed correctly.**

Y N

Install the Toner CRUM PWB (PL 4.2) correctly.

Check the connection of the MCU PWB P/J419. P/J419 is connected correctly.

Y N

Connect P/J419.

Check the connection of the Toner CRUM PWB P/J127. **P/J127 is connected correctly.**

Y N

Connect P/J127.

Check the wire between P127 and J419 for an open circuit or a short circuit (BSD 9.1 Flag 3/ Flag 4). **The wire between P127 and J419 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 J419-6 (+) and GND (-) (BSD 9.1 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Toner Cartridge (PL 4.1). If the problem persists, replace the Toner CRUM PWB (PL 4.2). If the problem persists, replace the MCU PWB (PL 9.1).

102-356 EWS Software Failure RAP

Due to a fatal error that occurred in processing related to the EWS, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the installation of the P-Kit/HDD-Kit/RAM boards.

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

102-380 MF UI Control Fatal Error RAP

Due to a fatal error that occurred in MF UI control processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the RAM DIMM (PL 9.2).

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

102-381 Data Link Layer Error (UI-Panel) RAP

During transmission between the ESS and the Panel, an initialization error, a message send error or a retrieve error for receiving data was detected by the ESS.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection between the ESS and the Panel.

Pull out and insert or replace the RAM DIMM (PL 9.2).

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2). If the problem persists, replace the Control Panel UI PWB (PL 11.2).

102-382 Application Layer Command Error (UI-Panel) RAP

- The required parameters were not sent by the Panel.
- A length error was detected in the variable length parameter.
- When a request message was sent to the Panel, a confirmation message was not received within the specified time.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the RAM DIMM (PL 9.2).

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

116-310 ESS Font ROM DIMM #2 Check Fail RAP

An error was detected when the ESS Font ROM DIMM #2 was checked.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the ESS PRT-Kit, the Fax board or the ROM DIMM.

If the problem persists, replace the PRT-Kit or the ROM DIMM (PL 9.2).

116-312 HDD Encrypt Key Failure RAP

An error in the HDD encryption key was detected on booting.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Set the correct encryption key.

116-313 HDD Encrypt Setup Failure RAP

The encryption key was set up but the HDD itself was not encrypted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Disable encryption.

116-314 Ethernet Address Failure RAP

An Ethernet error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the SEEPROM on the ESS.

Replace the ESS PWB (PL 9.2).

116-315 ESS DDR DIMM #1 R/W Check Failure RAP

An error was detected during the Read/Write operation of the ESS DDR DIMM #1.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the ESS DDR DIMM #1.

If the problem persists, replace the ESS DDR DIMM #1 (PL 9.2).

116-316 ESS DDR DIMM #2 R/W Check Failure RAP

An error was detected during the Read/Write operation of the ESS DDR DIMM #2.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the ESS DDR DIMM #2.

If the problem persists, replace the ESS DDR DIMM #2 (PL 9.2).

116-317 ESS ROM DIMM #1 Check Failure RAP

An error was detected when the standard ROM DIMM was checked.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the PRT-Kit or the ROM DIMM.

If the problem persists, replace the PRT-Kit or the ROM DIMM (PL 9.2).

116-318 ESS ROM DIMM #2 Check Failure RAP

An error was detected when the option ROM DIMM was checked.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the PRT-Kit or the ROM DIMM.

If the problem persists, replace the PRT-Kit or the ROM DIMM (PL 9.2).

116-321 System Soft Fatal Error RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the installation of the DDR DIMM.

Pull out and insert or replace the DIMM (PL 9.2).

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

116-323 ESS NVRAM W/R Check Failure RAP

An error was detected during the ESS PWB NVM Read/Write Check.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-324 System Detected An Error RAP

Unusual CPU processing occurred.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-326 ESS ROM DIMM #1 Flash Failure RAP

ESS ROM DIMM #1 Flash failure was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If there is a PRT-Kit in the ROM DIMM:

Pull out and insert the ROM DIMM #1.

Replace the PRT-Kit or the ROM DIMM (PL 9.2).

If there is no PRT-Kit in the ROM DIMM, replace the ESS PWB (PL 9.2).

116-327 ESS ROM DIMM #2 Flash Failure RAP

ESS ROM DIMM #2 Flash failure was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If there is a PRT-Kit in the ROM DIMM:

Pull out and insert the ROM DIMM #2.

Replace the PRT-Kit or the ROM DIMM (PL 9.2).

If there is no PRT-Kit in the ROM DIMM, replace the ESS PWB (PL 9.2).

116-328 L2 Cache Failure RAP

L2 Cache failure was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

116-329 Serial IF Soft Failure RAP

A system call error related to the serial I/F was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-330 HDD File System Failure RAP

Either the HDD Check detected that an error occurred when the power was turned on or the HDD was not formatted.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute the HDD Daig. (Hard Disk Diagnostic Program).

Replace the HDD (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-331 Invalid Log Information RAP

A log related error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

After removing the HDD and turning the power On/Off, reinstall the HDD and turn on the power.

Execute the HDD Diag. (Hard Disk Diagnostic Program).

Replace the ESS PWB (PL 9.2).

116-332 ESS On board ROM Error RAP

An error was detected in the ESS Built-In Standard ROM.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the ROM DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-333 LocalTalk Soft Failure RAP

Due to a LocalTalk related system call error, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-335 MFIO HD Failure RAP

The MFIO detected that the HDD failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Format the HDD.

Pull out and insert or replace the DIMM (PL 9.2).

Replace the HDD (PL 9.2).

Replace the Printer PWB (PL 9.2).

116-336 Redirector HD Failure RAP

A failure was detected during HDD access by the Redirector.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Format the HDD.

Replace the HDD (PL 9.2).

Replace the Printer PWB (PL 9.2).

116-337 SNTP Software Failure RAP

Due to a fatal error that occurred in general SNTP processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Replace the PRT-Kit.

Replace the ESS PWB (PL 9.2).

116-338 JBA Fatal Error RAP

Due to a fatal error that occurred in general JBA processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Replace the PRT-Kit.

Replace the ESS PWB (PL 9.2).

116-339 HDD Not Connect for JBA RAP

When the JBA Manager starts up, the system failed in obtaining the partition for the JBA.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Connect the HDD (PL 9.2).

116-340 Memory Not Enough RAP

The DDR DIMM, Entry Buffer and Work Area are insufficient. Errors such as Malloc error occur. The tasks cannot start up.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Add memory.

Pull out the PostScript option.

116-341 ROM Version Incorrect RAP

- Multiple incorrect versions of the ROM DIMM are installed.
- An invalid combination of ROM DIMMs are installed.

When installing multiple ROM DIMMs, it is necessary to match both the major versions and the minor versions.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the version of the ROM DIMM and if necessary, replace it with the correct version of the ROM DIMM (PL 9.2).

116-342 SESAMi Manager Failure RAP

Due to a fatal error that occurred in processing related to the SNMP Agent, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Upgrade the software.

116-343 Main PWB IC Failure RAP

An error was detected in the IC in the ESS PWB.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the DDR DIMM (PL 9.2). If the problem persists, replace the HDD (PL 9.2).

116-344 MFIO Failure RAP

The MFIO detected a fatal error.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-346 Formatter Failure RAP

Various fatal errors are detected by the Formatter.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the PRT-Kit.

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-348 Redirector Failure RAP

A response such as system function recall error was detected by the Redirector.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the PRT-Kit.

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-349 SIF Failure to Call Pflite RAP

An error occurred when calling the Pflite function using the SIF.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the PRT-Kit.

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-350 AppleTalk Soft Failure RAP

Due to a fatal error that occurred in general AppleTalk processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-351 Ether Talk Soft Failure RAP

Due to a fatal error that occurred in processing related to Ether Talk, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-352 NetWare Soft Failure RAP

Due to a fatal error that occurred in processing related to NetWare, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-353 HDD Physical Failure RAP

A physical error occurred in the HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the HDD (PL 9.2).

116-354 HDD Product Failure RAP

An error occurred in the HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the HDD (PL 9.2).

116-355 Agent Soft Failure RAP

Due to a fatal error that occurred in processing related to the SNMP Agent, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-356 HDD Format Failure RAP

HDD formatting failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the HDD (PL 9.2).

116-357 PostScript Error RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-358 Salutation Soft Failure RAP

Due to a fatal error that occurred in processing related to Salutation, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-359 PLW Soft Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-360 SMB Soft Failure RAP

Due to a fatal error that occurred in processing related to the SMB, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-361 Spool Fatal HDD RAP

The SpoolCont detected a fatal error during HDD access.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute the HDD Diag. (Hard Disk Diagnostic Program).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the HDD (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-362 SSDP Soft Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-363 BMLinkS/Print Service Software Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-364 Timer Failure RAP

A timer failure was detected in the ESS PWB.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2).

116-365 Spool Fatal Error RAP

Due to a fatal error that occurred in general SPL processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-366 Report Gen. Soft Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-367 Parallel IF Soft Failure RAP

Due to a fatal error that occurred in general parallel processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-368 Dump Print Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-370 XJCL Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-371 PCL Decomposer Software Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-372 P-Formatter Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-373 Dynamic DNS Soft Failure RAP

Due to a fatal error that occurred in processing related to the DDNS, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-374 Auto Switch Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-375 I-Formatter Failure RAP

A response such as system function recall error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-376 Port 9100 Software Failure RAP

Due to an error in software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-377 Video DMA Failure RAP

Video DMA failure was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the HDD-Kit/PRT-Kit.

Reinstall or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-378 MCR Soft Failure RAP

Due to a fatal error that occurred in processing related to the MCR, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-379 MCC Soft Failure RAP

Due to a fatal error that occurred in processing related to the MCC, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-380 ESS Font ROM DIMM #1 Check Failure RAP

An error was detected when the PS DIMM was checked.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the Printer PWB (PL 9.2) and the PS DIMM (PL 9.2). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the Printer PWB (PL 9.2). If the problem persists, replace the PS DIMM (PL 9.2) .

116-381 ABL Initialize Failure RAP

Damaged data was detected in the Address Book Library.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Clear the ESS NVM. (Perform this only after explaining to the user the purpose of clearing recipient information.)

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2).

116-382 ABL Physical Initialize Failure RAP

HDD access by the Address Book Library failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the HDD (PL 9.2).

116-385 IDC Software Failure RAP

Due to a fatal error that occurred in processing related to the MCC, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-388 MCC (Mail Contents Creator) Fatal Error RAP

The system detected that the HDD was not installed, even though the system configuration (with Fax) requires a HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-389 Additional RAM Necessary But Not Installed RAP

The system detected that additional RAM was not installed, even though the system configuration (with HDD etc.) requires the installation of additional RAM.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

116-390 Standard ROM and NVM Version Mismatch RAP

Incompatible versions of the standard ROM and NVM were detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Follow the LCD display and initialize the NVM.

116-391 Illegal country code detect RAP

An illegal country code was set.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the Printer PWB (PL 9.2). If the problem persists, replace the MCU PWB (PL 9.1).

116-392 Illegal territory code detect RAP

An illegal territory code was set.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the Printer PWB (PL 9.2). If the problem persists, replace the MCU PWB (PL 9.1).

116-393 Illegal paper size group detect RAP

An illegal paper size group was set.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the Printer PWB (PL 9.2). If the problem persists, replace the MCU PWB (PL 9.1).

116-395 USB Software Failure RAP

Due to a USB related fatal error, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the specified method).

116-701 Out of Memory-Duplex Failure RAP

2 Sided printing was not possible due to insufficient memory.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Expand the memory.

If there is no HDD, install the HDD (PL 9.2).

116-702 Print with Substitute Font RAP

Printed using a substitute font.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

116-703 PostScript LANG Interpret Error RAP

There is a problem in the PostScript data and an error occurred in PostScript grammar interpretation or language interpretation.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Correct the job data.

116-710 HP-GL/2 Memory Overflow RAP

HP-GL/2 Memory overflow.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Expand the HP-GL Spool size or install the HDD (PL 9.2).

116-711 PLW Size/orientation Mismatch RAP

Overlay is not possible because the drawing size/orientation of the PLW form is different from the size/orientation of the paper.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Select paper that has the same size and orientation as the registered form.

116-712 Out of Area-Form Registration Error RAP

PLW form/logo data registration was not possible due to insufficient RAM disk or HDD capacity.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

After checking the registered forms/logos using the Operation Panel utility, delete the forms/logos that are unnecessary.

116-713 Job divided by HDD Full RAP

The job output was split into batches due to HDD Full.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Clear HDD Full.

116-714 HP-GL/2 Command Error RAP

A HP-GL command error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Correct or remove the data in the print data that causes the error.

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

Refer to BSD 16.1.

Power OFF/ON

Procedure

After checking the registered forms using the Operation Panel utility, delete the forms that are unnecessary.

Or, 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

Refer to BSD 16.1.

Power OFF/ON

Procedure

Use a registered form or register the required form.

116-720 PCL Memory Low, Page Simplified RAP

The PCL Memory capacity is insufficient.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Do not start up the ports that are unnecessary. Adjust the various Buffer Memory sizes. Add additional memory.

116-737 Out of Area-Data Registration Error RAP

Registration of user defined data (external characters, patterns, etc.) in ART was not possible because of insufficient RAM capacity.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Delete registered user defined data. Or, Refer customer to User Guide heading Data Encryption to check RAM usage

116-738 Size/orientation Mismatch RAP

Form Overlay is not possible because the drawing size/orientation of the form is different from the size/orientation of the paper.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Select paper that has the same size and orientation as the registered form.

116-739 Insufficient Capacity For Form/Logo RAP

Form/logo registration was not possible because of insufficient RAM disk or HDD capacity.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

After checking 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.

116-740 Arithmetic Error RAP

The number calculated in the interpreter exceeded the limit value.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Remove the data that exceeds the limit value from the print data.

116-741 Max Form to Not PLW Registered RAP

Form data registration was not possible because of the restriction on the number of forms.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

After checking the registered forms using the Operation Panel utility, delete the forms that are unnecessary.

Or, delete forms that are not required by the print command.

116-742 Max Logo Registered RAP

Logo data registration was not possible because of the restriction on the number of logos.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

After checking the registered logos using the Operation Panel utility, delete the logos that are unnecessary.

Or, delete logos that are not required by the print command.

116-743 Form/Logo Size Overflow RAP

The received data (form/logo) exceeds the registered buffer size.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Increase the size of the Form Registration Area using the Operation Panel. Or, install the HDD (PL 9.2).

116-745 ART Command Error RAP

During Decompose, the Decomposer checks for errors in grammar and values that exceed their respective limit values.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Correct the command.

116-746 Selected Form Not Registered RAP

The specified form is not registered.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

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.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

116-748 Page without Image Draw Data RAP

Drawing data does not exist in the page data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

116-749 PostScript Font Error RAP

The specified font is not found in the ROM or the HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

The font name specified in JIS is set.

116-771 Invalid JBIG Parameter DL Fixed RAP

An incorrect JBIG parameter DL was automatically corrected.

Initial Actions

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

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

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

116-780 Attached Document Error RAP

There was an error in the document attached to the E-mail to XXX.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

116-790 Stapling Canceled RAP

When Staple was specified, there were no staples.

Initial Actions

Refer to BSD 12.6.

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 P8852-1 (+) and GND (-) (BSD 12.6). **The voltage is approx. +5VDC.**

Y N

Replace the Finisher PWB (PL 16.12).

Measure the voltage between the Finisher PWB P/J8852-4 (+) and GND (-) (BSD 12.6). Install and remove the Staple Pin Cartridge. **The voltage changes.**

Y N

Replace the Finisher PWB (PL 16.12).

Replace the Staple Assembly (PL 16.8). If the problem persists, replace the Finisher PWB (PL 16.12).

Replace the Finisher PWB (PL 16.12). If the problem persists, replace the MCU PWB (PL 9.1).

121-310 EPSV-Accessory Communication Failure RAP

Transmission between the EP-SV and the accessories failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the EP-SV.

Reinstall or replace the EPSV-IF board (PL 9.2).

Replace the EP accessory.

121-333 EPSV-EP M/C Communication Failure RAP

Transmission between the EP-SV and the machine failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the EPSV-IF board (PL 9.2).

Replace the EP accessory.

Replace the EP-SV.

121-334 EPSV Login Failure RAP

Verification of the login information in WAKE UP ANSWER resulted in an error.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the EPSV-IF board (PL 9.2).

Pull out and insert or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Replace the EP-SV.

121-335 EPSV Wake Up Answer Failure RAP

The WAKE UP ANSWER cannot be received.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the EPSV-IF board (PL 9.2).

Pull out and insert or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Replace the EP-SV.

121-336 Unknown EP Accessory RAP

The EP related accessory type was unknown in WAKE UP ANSWER.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the EP accessory.

121-337 EP Accessory Self Diag. Failure RAP

Self-diagnostic of the EP related accessories in WAKE UP ANSWER resulted in an error.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

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

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

121-339 Changed Price Table Error RAP

With the machine turned on, unit price information was changed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

121-340 EP Accessory Mismatch RAP

The combination of accessories that are installed does not match the specifications.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the EPSV-IF board (PL 9.2).

Pull out and insert or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

121-350 EPSV Logic Failure RAP

A fatal error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the EPSV-IF board (PL 9.2).

Pull out and insert or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

121-370 EP-DX - Unexpected Error RAP

A fatal error was detected.

Initial Actions

Refer to BSD 16.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the ESS PWB (PL 9.2). If the problem persists, replace the MCU PWB (PL 9.1).

123-200 Receive Buffer Overflow RAP

The data received from the Controller exceeded the buffer amount of the storage destination in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-201 Send Buffer Overflow (UI-Panel) RAP

The data to be sent from the Panel exceeded the buffer amount of the storage destination in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-202 Request Queue Full (UI-Panel) RAP

An event occurred that exceeds the processing capability for requests arising in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-205 SIO Command Failure (UI-Panel) RAP

A command error occurred in SIO Receive Request.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-206 SIO Status Failure (UI-Panel) RAP

A header status error of the RX packet or a message status error of the RX packet occurred.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-207 Comm Manager Target Failure (UI-Panel) RAP

The mailbox value of the cm_send_msg statement is incorrect or the target is not SYS when receiving from the SIO.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-208 Comm Manager Command Failure (UI-Panel) RAP

A command error occurred when receiving from the SIO.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-310 Send Queue Full (UI-Panel) RAP

The upper limit of the processing capability for sending data from the Panel to the Controller was exceeded.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-311 Receive Queue Full (UI-Panel) RAP

The data received from the Controller exceeded the upper limit for the processing capability in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-312 EVM Uses Wrong API (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-313 AS Uses Wrong API (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-314 Event-waiting Timer Time-outs-Panel) RAP

The response message from the Controller was not sent within the specified time.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-315 CTS Internal Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-316 Send Request Queue Full SIO (UI-Panel) RAP

The upper limit of the processing capability for sending data from the Panel to the Controller was exceeded.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-317 Receive Message Queue Full (UI-Panel) RAP

The data received from the Controller exceeded the upper limit for the processing capability in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-318 Receive Finish Queue Full (UI-Panel) RAP

The data received from the Controller exceeded the upper limit for the processing capability in the Panel.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-319 Send Failure with No ACK (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-320 Polling Failure (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-321 Send Message Failure (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-322 Target Failure (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-323 Address Failure (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-324 Size Failure (UI-Panel) RAP

Serial transmission failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-325 Object Creation Failure (UI-Panel) RAP

The specified object could not be created due to Panel-SW failure and a setting or specification error during gm_create.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-326 Memory Overflow (UI-Panel) RAP

The Panel-SW failed and the memory in the GUAM exceeded the upper limit.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-327 Button Overflow (UI-Panel) RAP

The Panel-SW failed and the memory in the GUAM for buttons (synchronous display) exceeded the upper limit.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-328 UI Internal Failure with Out of Area RAP

Panel-SW failure and a coordinate value outside the range of the display screen (WxH = 640x240) was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-329 UI Internal Failure with Invalid Coordinates RAP

Panel-SW failure and a coordinate value that cannot be displayed was detected (X=4 times no. position).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-331 UI Internal Failure with Invalid LED Request RAP

The Panel-SW failed and an illegal request to light up a LED was received.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-332 Interface Failure (Invalid Parameter CP) RAP

The Panel-SW failed and an incorrect parameter was received by the DM-CP driver. I/F.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-333 Interface Failure (Impossible Communication) RAP

The system detected that transmission with the Control Panel could not be established.

The H/W connection in the Panel is faulty and the internal connection could not be correctly detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-334 Interface Failure (Receiving Error Key Code) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-335 Interface Failure (Receiving Invalid Coordinates) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the Control Panel board.

123-337 Frame Data Error with Invalid Data Type RAP

The Panel-SW failed and an incorrect Data Type value detected by the Frame ID was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-338 Frame Data Error Offset Address Out RAP

The Panel-SW failed and an offset address that is out of range was extracted from the Frame ID.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-339 Display Request Code Invalid RAP

The Panel-SW failed and the system detected that an incorrect code was entered.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-340 Interface Failure GUAM - DM I/F RAP

The Panel-SW failed and an incorrect parameter was received by the GUAM-DM I/F.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-341 Event Queue Full (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-342 Event Queue Empty (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-343 Invalid Class (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-344 Invalid Type (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-345 Timer Queue Full (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-346 Invalid Timer Number (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-347 Undefined Trap (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-348 Command Access Exception (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-349 Invalid Command (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-350 Privilege Command (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-351 No FPU Exception (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-352 Address Misalign (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-353 Data Access Exception (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-354 Tag Overflow (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-355 No Co Processor Exception (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-356 Short of Area (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-357 Cancel Wait Status (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-358 Time-out (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-359 Queue Overflow (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-360 Context Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-361 Object Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-362 No Object (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-363 Invalid ID (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-364 Parameter Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-365 Reserve Attribute (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-366 Reserve Function Code (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-367 Unsupported Function (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-368 Short of UI Memory (UI-Panel) RAP

There is insufficient memory or the connection failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-369 Invalid Interface Value (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-370 Interface Length Failure (UI-Panel) RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-371 Interface Parameter Failure (UI-Panel) RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-372 Interface Sequence Failure (UI-Panel) RAP

The initialization command from the Controller was not sent within the specified time.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-373 Channel Failure (UI-Panel) RAP

There is an error in the channel sent from the Controller.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-374 Invalid User Job ID (UI-Panel) RAP

There is an error in the Job ID parameter sent from the Controller.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-375 Internal Resource Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-376 Internal Memory Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-377 UI Timer Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-378 Interface Format Failure (UI-Panel) RAP

There is an error in the data format sent from the Controller.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-379 Dispatch Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-380 Copy Interface Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-381 Fax Interface Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-382 Scanner Interface Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-383 Report Interface Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-384 Server Access Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-385 Service Object Overflow (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-386 Invalid Service Object (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-387 Invalid Service Object Attribute (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-388 Attribute Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-389 Argument Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-390 Job Parameter Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-391 Job Actual Parameter Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-392 Auditron Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-393 EP Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-394 File Access Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-395 NVM Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-396 FF Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-397 MGR Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

123-398 Delay Release Queue Full (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-399 Internal Failure (UI-Panel) RAP

The Panel-SW failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

123-400 JRM I/F Internal Failure (UI-Panel) RAP

There was insufficient memory capacity, an internal error or invalid IF Sequencing (or parameter) was entered into the Converter.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

As there may be a contradiction in the System Data, initialize the System Data.

124-210 All IOT Speed Mismatch RAP

There was an error in the 3 IOT speed setting values stored in the machine.

Initial Actions

Refer to BSD 16.1.

Procedure

Turn the power Off/On.If the problem persists, carry out the following procedure:

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-312 DC132 12 RAP

The product codes did not match.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Compare the 3 product codes. **The 3 product codes match.**

Y N

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Make the 3 product codes match.

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-313 DC132 10 RAP

The serial nos. did not match.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Compare the 3 serial nos. **The 3 serial nos. match.**

Y **N**

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Make the 3 serial nos. match.

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-314 DC132 01 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-315 DC132 02 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute [NVM Read/Write].

Compare the following values.

[700-600]
[700-601]
[700-602]

The 3 values match.

Y N

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting].
Make the 3 values match.

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-316 DC132 03 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-317 DC132 04 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute [NVM Read/Write].

Compare the following values.

[700-600]
[700-601]
[700-602]

The 3 values match.

Y N

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting].
Make the 3 values match.

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-318 DC132 07 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-319 DC132 08 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute [NVM Read/Write].

Compare the following values.

[700-606]
[700-607]
[700-608]

The 3 values match.

Y N

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Make the 3 values match.

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-320 SEEPROM Failure RAP

A write error occurred in the ESS PWB SEEPROM.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the ESS PWB (PL 9.2).

124-321 Backup SRAM Failure RAP

A failure occurred when setting the M/C serial number.

Initial Actions

Refer to BSD 9.2/9.3.

Power OFF/ON

Procedure

Check the connection of each ESS PWB (PL 9.2) and FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2) followed by the FCB PWB (PL 9.3).

124-322 DC132 05 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-323 DC132 06 RAP

Internal control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute [NVM Read/Write].

Compare the following values.

[700-603]
[700-604]
[700-605]

The 3 values match.

Y N

If the values do not match, replace the PWB (MCU PWB (PL 9.1) or ESS PWB (PL 9.2)).

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-325 Billing Restoration Failure RAP

Billing counter auto repair failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Execute Serial Number/Billing Meter Data [Billing Data Matching & Serial No Setting]. Compare the 3 serial nos. **The 3 serial nos. match.**

Y N

If the values do not match, replace the PWB (MCU PWB (PL 9.1) or ESS PWB (PL 9.2)).

Replace the MCU PWB (PL 9.1) and the ESS PWB (PL 9.2).

124-331 ESS ROM DIMM #1 Not Found RAP

The system detected that the ESS ROM DIMM #1 was not installed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the PRT-Kit or the ROM DIMM #1 (PL 9.2).

124-333 ASIC Failure (Panther) RAP

ESS ASIC error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the DDR DIMM (PL 9.2). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the DDR DIMM (PL 9.2).

124-334 Standard Font ROM Error RAP

An error was detected in the standard Built-In Font ROM.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If it is not resolved by turning the power Off/On, pull out and insert or replace the PRT-Kit.

124-335 Font ROM Not Found RAP

The Font ROM could not be detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert the Printer PWB (PL 9.2) and the PS DIMM (PL 9.2). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each ESS PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the Printer PWB (PL 9.2) and the PS DIMM (PL 9.2)

.

124-337 ESS Standard RAM Error RAP

An error was detected in the ESS Built-In Standard RAM.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reinstall or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

124-338 Same Font ROMs Found RAP

The system detected that a duplicate Font ROM was installed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Pull out and insert or replace the PRT-Kit or the ROM DIMM #3 (PL 9.2).

124-339 ROM DIMM of Another Product Found RAP

The system detected that the ROM DIMM for another model was installed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check that the prescribed ROM DIMM (PL 9.2) was installed.

Reinstall or replace the PRT-Kit.

Replace the ESS PWB (PL 9.2).

124-340 CRUM Market Failure ALL RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-341 CRUM Market Failure MCU RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS1. If the problem persists, replace the MCU PWB (PL 9.1).

If the software does not support DC132, replace the MCU PWB (PL 9.1).

124-342 CRUM Market Failure SYS 1 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master MCU. If the problem persists. replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-343 CRUM Market Failure SYS 2 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS2. If the problem persists, replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-350 CRUM OEM Failure ALL RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-351 CRUM OEM Failure MCU RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS1. If the problem persists, replace the MCU PWB (PL 9.1).

If the software does not support DC132, replace the MCU PWB (PL 9.1).

124-352 CRUM OEM Failure SYS 1 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master MCU. If the problem persists. replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-353 CRUM OEM Failure SYS 2 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS2. If the problem persists, replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-360 CRUM validation Failure ALL RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-361 CRUM validation Failure MCU RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS1. If the problem persists, replace the MCU PWB (PL 9.1).

If the software does not support DC132, replace the MCU PWB (PL 9.1).

124-362 CRUM validation Failure SYS 1 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master MCU. If the problem persists. replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-363 CRUM validation Failure SYS 2 RAP

CRUM control failed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS2. If the problem persists, replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-372 IOT Controller Software Error RAP

Due to an error in the software of the IOT Controller, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

124-373 IOT Manager Software Failure RAP

Due to an error in the software of the IOT Manager, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

124-374 IOT IM Device Driver Software Failure RAP

Due to an error in the software of the IOT IM Device Driver, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Reinstall or replace the DDR DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

124-380 CRUM Market fail ALL(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-381 CRUM Market fail MCU(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS1. If the Problem persists, replace the MCU PWB (PL 9.1).

If the software does not support DC132, replace the MCU PWB(PL 9.1).

124-382 CRUM Market fail SYS1(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

In DC132, repair the problem by master MCU. If the Problem persists, replace the ESS PWB(PL 9.2).

If the software does not support DC132, replace the ESS PWB(PL 9.2).

124-383 CRUM Market fail SYS2(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

In DC132, repair the problem by master SYS2. If the Problem persists, replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-390 OEM Market fail ALL(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the ESS PWB (PL 9.2) followed by the MCU PWB (PL 9.1).

124-391 CRU OEM fail MCU(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

In DC132, repair the problem by master SYS1. If the Problem persists, replace the MCU PWB (PL 9.1).

If the software does not support DC132, replace the MCU PWB (PL 9.1).

124-392 CRU OEM fail SYS1(2)

CRUM control failed.

Initial Actions

Refer to BSD16.1.

Power OFF/ON

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

In DC132, repair the problem by master MCU. If the Problem persists, replace the ESS PWB(PL 9.2).

If the software does not support DC132, replace the ESS PWB(PL 9.2)

124-393 CRU OEM fail SYS2(2)

CRUM control failed

Initial Actions

Refer to BSD16.1.

Power OFF/ON.

Procedure

Check the connection of each ESS PWB and MCU PWB connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

In DC132, repair the problem by master SYS2. If the Problem persists, replace the ESS PWB (PL 9.2).

If the software does not support DC132, replace the ESS PWB (PL 9.2).

124-701 Side Tray to Center Tray RAP

The output destination was changed from the Side Tray to the Center Tray.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

No action necessary.

127-310 ESR Task Fatal Error RAP

A fatal error occurred in an ESR Task.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

127-337 Job Template HDD Write Error RAP

There was a file access failure during polling for internal use or an error occurred when writing to the Job Template local HDD.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Format the HDD.

Replace the DIMM (PL 9.2).

Replace the HDD (PL 9.2).

Replace the Printer PWB (PL 9.2).

127-342 Job Template Monitor Failure RAP

A response such as system function recall error was detected.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the DIMM (PL 9.2).

Replace the Printer PWB (PL 9.2).

127-353 LPD Soft Fatal Error RAP

Due to a fatal error that occurred in processing related to the LPD, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

127-396 Mail I/O Soft Fatal Error RAP

Due to a fatal error that occurred in processing related to the Mail I/O, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Upgrade to the latest version of ESS Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the method for open access information for differentiated shared activities).

127-398 IPP Soft Fatal Error RAP

Due to a fatal error that occurred in processing related to the IPP, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Upgrade to the latest version of ESS Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the method for open access information for differentiated shared activities).

127-399 JME Soft Fatal Error RAP

Due to a fatal error that occurred in processing related to the JME, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

If the problem was not resolved by turning the power Off/On and the same error continuously reoccurs using CE Log, carry out the following procedure:

Upgrade to the latest version of ESS Firmware (ADJ 9.3.1).

Pull out and insert or replace the DIMM (PL 9.2).

Replace the ESS PWB (PL 9.2).

Retrieve the Troubleshooting Log (apply the method for open access information for differentiated shared activities).

133-210 Fax Parameter incorrect RAP

The parameter value is incorrect due to reasons such as excessive length.

The required parameter is not sent.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3).

133-211 Fax Parameter Value Invalid RAP

The PV exceeds the range.

The required parameter is not sent.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3).

133-212 Fax Read Error- No Data RAP

The specified data does not exist (incorrect no. or channel).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3).

133-213 Fax Read Error- Invalid Data RAP

The specified data cannot be read due to reasons such as corrupted data.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace the FCB PWB (PL 9.3).

133-214 Fax USB Open Failure in Initializing RAP

Detected by the FAPE (create Instance failed).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace one of the following: Fax board, USB cable or FCB PWB (PL 9.3).

133-215 Fax USB Device Fatal Error RAP

Sent to the FAPE as an asynchronous event.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace one of the following: Fax board, USB cable or FCB PWB (PL 9.3).

133-216 Fax USB Host Fatal Error RAP

Sent to the FAPE as an asynchronous event.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Replace one of the following: Fax board, USB cable or FCB PWB (PL 9.3).

133-217 Fax Manager Short of Memory RAP

Sent to the FAPE as an asynchronous event (currently undefined).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

133-218 Fax Card Message Library Short of Memory RAP

Sent to the FAPE as an asynchronous event (currently undefined).

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

133-219 Fax Short of Work Memory RAP

Due to insufficient memory, the system could not reserve memory required for processing.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Turn the power Off/On.

133-220 Fax Control task detects Error RAP

Due to an error during Fax Controller software processing, subsequent processes cannot be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

133-221 Fax Card not respond when system is Booting RAP

The FCB PWB did not respond within the specified time on booting.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

133-222 Fax Card does not respond intervalley RAP

The FCB PWB did not respond within the specified time.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

133-223 Fax Card Reset RAP

As the FCB PWB did not respond, the Controller reset.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Reload Firmware (ADJ 9.3.1).

133-224 Controller ROM Fax Card ROM mismatch RAP

The Controller detected version mismatch.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Install a compatible version of the Controller or FCB PWB software.

133-225 Fax address book illegal setting RAP

After rewriting the Address Book in Easy Admin, a speed dial entry was rewritten from the Panel before reboot.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Rewrite the Address Book in Easy Admin.

Procedure

Check the connection of each ESS PWB (PL 9.2) and FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the ESS PWB (PL 9.2). If the problem persists, replace the FCB PWB (PL 9.3).

133-280 Fax Option Slot1 Board Failure RAP

Failure was detected on the Fax Option Slot 1 board.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Pull out and insert the FCB PWB (PL 9.3). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the FCB PWB (PL 9.3).

133-281 Received unknown message RAP

A message not specified in I/F settings was received from the Fax Card.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Pull out and insert the FCB PWB (PL 9.3). Turn on the power again. **The same problem reoccurs.**

Y N

End

Check the connection of each FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y N

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y N

End

Replace the FCB PWB (PL 9.3).

133-282 Fax Card download Failure RAP

As FCB PWB download could not be completed due to either a FCB PWB or Fax Controller SW failure, subsequent processes could not be performed.

Initial Actions

Refer to BSD 16.1.

Power OFF/ON

Procedure

Repeat the FCB PWB download. Or, replace the FCB PWB (PL 9.3).

134-210 Fax Controller Parameter Invalid RAP

The parameter value was incorrect or the required parameter was not sent.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Pull out and insert the FCB PWB (PL 9.3). Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Check the connection of each FCB PWB (PL 9.3) connector. **The connectors are connected correctly.**

Y **N**

Connect the connectors.

Turn on the power again. **The same problem reoccurs.**

Y **N**

End

Replace the FCB PWB (PL 9.3).

134-211 Fax Card Main Board Failure RAP

A failure was detected on the FCB PWB.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Check or replace the FCB PWB (PL 9.3).

202-399 Timer Internal Failure RAP

An internal error was detected in the timer.

Initial Actions

Refer to BSD 17.1.

Power OFF/ON

Procedure

Reload Firmware (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 (PL 2.1/PL 12.1/PL 13.1) correctly.

Go to the OF 2 (SIZE SWITCH ASSY RAP).

Replace the MCU PWB (PL 9.1).

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 SW5 of the relevant Size Sensor.

Tray 1: Component Control [071-210 Tray 1 Size Switch-SW5]

Tray 2: Component Control [071-211 Tray 2 Size Switch-SW5]

Tray 3: Component Control [071-212 Tray 3 Size Switch-SW5]

Tray 4: Component Control [071-200 Tray 4 Size Switch-SW5]

The display changes.

Y N

Check the connections of the following connectors:

Tray 1: P/J109, P/J412

Tray 2: P/J110, P/J412

Tray 3: P/J820, P/J548

Tray 4: 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

Tray 4: Between J824 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

A

Tray 2: MCU PWB P412-9

Tray 3: TM PWB P548-14

Tray 4: TM PWB P548-7

The voltage is the specified value (MCU PWB: approx. +5VDC, Tray Module PWB: approx. +3.3VDC).

Y N

Replace the relevant PWB (MCU PWB (PL 9.1) or Tray Module PWB (PL 12.6/PL 13.8)).

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

Tray 4: TM PWB P548-4

Activate SW5 of the relevant Size Sensor. **The voltage changes.**

Y N

Replace the relevant PWB (MCU PWB (PL 9.1) or the Tray Module PWB (PL 12.6/PL 13.8)).

Replace the relevant Size Sensor.

Check the connections of the following connectors:

Tray 1: P/J109, P/J412

Tray 2: P/J110, P/J412

Tray 3: P/J820, P/J548

Tray 4: 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

Tray 4: Between J824 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

Tray 4: TM PWB P548-7

The voltage is the specified value (MCU PWB: approx. +5VDC, Tray Module PWB: approx. +3.3VDC).

Y N

Replace the relevant PWB (MCU PWB (PL 9.1) or Tray Module PWB (PL 12.6/PL 13.8)).

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

Tray 4: TM PWB P548-6

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 9.1) or Tray Module PWB (PL 12.6/PL 13.8)).

OF 3 Main Drive Assy RAP

Procedure

Execute Component Control [071-037 Drum Motor ON]. **The Drum Motor can be heard.**

Y N

Check the connections of P/J408 and P/J214. **P/J408 and P/J214 are connected correctly.**

Y N

Connect P/J408 and P/J214.

Check the wire between J408 and J214 for an open circuit or a short circuit (BSD 4.1 Flag 3/Flag 4/Flag 5/Flag 6/Flag 7). **The wire between J408 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 the MCU PWB P408-13 (+) and GND (-), and between P408-14 (+) and GND (-) (BSD 4.1 Flag 4). **The voltage is approx. +24VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Measure the voltage between the MCU PWB P408-10 (+) and GND (-) (BSD 4.1 Flag 3). **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Replace the Main Drive Assembly (PL 1.1). If the problem persists, replace the MCU PWB (PL 9.1).

Check the wires between the following points for an open circuit or a short circuit. The wire between the points is conducting without an open circuit or a short circuit.

- Between J408-3 and J214-12 (BSD 4.1 Flag 2)
- Between J408-8 and J214-7 (BSD 4.1 Flag 2)
- Between J408-9 and J214-6 (BSD 4.1 Flag 1)

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 9.1).

3 Image Quality

IQ1 IOT Image Quality Entry RAP

Initial Actions

Determine whether the problem occurs in Copy Mode or Printer Mode. If the problem occurs in Copy Mode, go to IQ2 IIT Image Quality Entry RAP.

Procedure

Determine the problem and go to the relevant RAP.

Table 1

Problem	Symptoms	RAP
Low Image Density	Overall low density of images.	IQ3RAP
Wrinkled Image	The printed paper is wrinkled, folded or torn.	IQ4 RAP
Residual Image (Ghosting)	Ghost images appear on the paper. Parts of the previous page or current page appear as ghost images on the paper.	IQ5 RAP
Background	Toner smudges appear on the whole or part of the page. The smudges appear as extremely bright gray stains.	IQ6 RAP
Deletion	Part of the image is missing.	IQ7 RAP
Skew/Misregistration	Printed images are not parallel to the edges of the paper.	IQ8 RAP
Process Direction Bands, Streaks and Smears	Vertical black lines or white streaks running in the direction of the paper orientation.	IQ9 RAP
Unfused Copy/Toner Offset	Printed images are not properly fused onto the paper. The images come off easily when rubbed.	IQ10 RAP
Repeating Bands, Streaks, Spots and Smears	Horizontal black lines or white streaks running in the direction of the paper orientation.	IQ11 RAP
Mottle	Uneven printed image density.	IQ12 RAP
Spots	Toner spots are spread irregularly over the whole page.	IQ13 RAP
Black Prints	Paper is printed completely black.	IQ14 RAP
Blank Image	Paper is printed completely white.	IQ15 RAP

IQ2 IIT Image Quality Entry RAP

Initial Actions

Clean the Platen Glass.

Clean the mirrors and lens with lint-free cloth.

Procedure

Determine the problem and go to the relevant RAP.

Table 1

Problem	Symptoms	RAP
Low Image Density	Overall low density of images.	IQ3 RAP
Background	Toner smudges appear on the whole or part of the page. The smudges appear as extremely bright gray stains.	IQ6 RAP
Process Direction Bands, Streaks and Smears	Vertical black lines or white streaks running in the direction of the paper orientation.	IQ9 RAP
Repeating Bands, Streaks, Spots and Smears	Horizontal black lines or white streaks running in the direction of the paper orientation.	IQ11 RAP
Spots	Toner spots are spread irregularly over the whole page.	IQ13 RAP
Black Prints	Paper is printed completely black.	IQ14 RAP

IQ3 Low Image Density RAP

Overall low density of images.

Procedure

Check for dirt on the Platen Glass. **The Platen Glass is clean.**

Y N

Clean the Platen Glass. If there is a stubborn stain, replace the Platen Glass.

Check the drum ground contact point for dirt and distortion. **The drum ground contact point is clean and there is no distortion.**

Y N

Clean the drum ground contact point and correct the distortion.

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Set to print a black copy. During the print cycle, turn off the power after the feeding sound is heard (ie. terminate processing midway through copying). Check the surface of the drum. **There is a considerable amount of toner left on the surface of the drum.**

Y N

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

Replace the BTR. If the problem persists, replace the HVPS and the MCU PWB (PL 9.1).

IQ4 Wrinkled Image RAP

The printed paper is wrinkled, folded or torn.

Procedure

Check the paper type. **Paper used is within specifications.**

Y N

Use paper within specifications.

Use paper from a freshly opened packet. **The problem reoccurs.**

Y N

End

Remove the Fuser Unit (PL 5.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check for foreign substances and distortions in the paper delivery path. **There are no foreign substances or distortions in the paper delivery path.**

Y N

Remove the foreign substances and correct the distortion.

Replace the Fuser Unit (PL 5.1).

IQ5 Residual Image (Ghosting) RAP

Ghost images appear on the paper. Parts of the previous page or current page appear as ghost images on the paper.

Procedure

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Remove the Fuser Unit (PL 5.1). Check for dirt on the surface of the Heat Roll. **The surface of the Heat Roll is clean.**

Y N

Clean the Heat Roll. If there is difficulty in removing the dirt, replace the Fuser Unit (PL 5.1)

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.1).

IQ6 Background RAP

Toner smudges appear on the whole or part of the page. The smudges appear as extremely bright gray stains.

Procedure

Check for dirt on the Platen Glass. **The Platen Glass is clean.**

Y N

Clean the Platen Glass. If there is a stubborn stain, replace the Platen Glass (PL 11.3).

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Remove the HVPS and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Replace the MCU PWB (PL 9.1). If the problem persists, replace the HVPS and the ESS PWB (PL 9.2).

IQ7 Deletion RAP

Part of the image is missing.

Procedure

Check the paper type. **Paper used is within specifications.**

Y N

Use paper within specifications.

Use paper from a freshly opened packet. **The problem reoccurs.**

Y N

End

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for distortion. **There is no distortion on the surface of the BTR.**

Y N

Replace the BTR (PL 2.6).

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ8 Skew/Misregistration RAP

Printed images are not parallel to the edges of the paper.

Procedure

Check the location where the machine is installed. **The machine is installed on a stable horizontal surface.**

Y N

Install the machine on a stable horizontal surface.

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the installation of the Paper Cassette. **The Paper Cassette is correctly installed.**

Y N

Install the Paper Cassette correctly.

Check for distortion in the paper delivery path. **There is no distortion in the paper delivery path.**

Y N

Correct the distortion or replace the distorted part.

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ9 Process Direction Bands, Streaks and Smears RAP

Vertical black lines or white streaks running in the direction of the paper orientation.

Procedure

Check the IIT Carriage Mirrors for scratches and dirt. **There are no scratches or dirt on the mirrors.**

Y N

Clean the mirrors. If there is a scratch or stubborn stain, replace the No.1/No.2/No.3 Mirror (PL 11.6).

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Check for dirt in the paper delivery path. **The paper delivery path is clean.**

Y N

Clean the paper delivery path.

Check the IIT Carriage Mirror. **The mirror is clean and there is no distortion.**

Y N

Clean the mirror. If there is distortion, replace the mirror.

Remove the Fuser Unit (PL 5.1). Check for dirt on the surface of the Heat Roll. **The surface of the Heat Roll is clean.**

Y N

Clean the Heat Roll. If there is difficulty in removing the dirt, replace the Fuser Unit (PL 5.1).

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Check the IIT Carriage Mirror. **The mirror is clean and there is no distortion.**

Y N

Clean the mirror. If there is distortion, replace the mirror.

Check the ROS Window for scratches and distortion. **The ROS Window is clean and there are no scratches.**

Y N

Clean the ROS Window. If there is a scratch, replace the ROS Window.

Replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ10 Unfused Copy/Toner Offset RAP

Printed images are not properly fused onto the paper. The images come off easily when rubbed.

Procedure

Check the paper type. **Paper used is within specifications.**

Y N

Use paper within specifications.

Use paper stored under room conditions. **The problem reoccurs.**

Y N

End

Check the power supply voltage. **The voltage is within the specified range.**

Y N

Connect a power supply with voltage within the specified range.

Remove the Fuser Unit (PL 5.1) and reinstall. **The problem reoccurs.**

Y N

End

Check the fusing temperature using the Diagnostics. **A normal fusing temperature is set.**

Y N

Set a normal fusing temperature.

Replace the Fuser Unit (PL 5.1).

IQ11 Repeating Bands, Streaks, Spots and Smears RAP

Horizontal black lines or white streaks running in the direction of the paper orientation.

Procedure

Check the moving parts of the IIT Carriage for foreign substances and distortion. **There are no foreign substances or distortion of the parts.**

Y N

Remove the foreign substances. If there is distortion in the Capstan Pulley, Capstan Shaft or Carriage Cable (PL 11.6), replace the parts accordingly.

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Check the pitch of the black streaks or blanks. **The pitch of the black streaks or blanks are approx.78mm (the circumference of the Heat Roll).**

Y N

Clean the Heat Roll. If there is difficulty in removing the dirt, replace the Fuser Unit (PL 5.1).

Replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ12 Mottle RAP

Uneven printed image density.

Procedure

Check the paper type. **Paper used is within specifications.**

Y N

Use paper within specifications.

Use paper from a freshly opened packet. **The problem reoccurs.**

Y N

End

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Remove the HVPS and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ13 Spots RAP

Toner spots are spread irregularly over the whole page.

Procedure

Check for dirt on the Platen Glass. **The Platen Glass is clean.**

Y N

Clean the Platen Glass. If there is a stubborn stain, replace the Platen Glass (PL 11.3).

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the surface of the BTR for dirt and distortion. **The surface of the BTR is clean and there is no distortion.**

Y N

Clean the BTR. If there is distortion, replace the BTR (PL 2.6).

Check for dirt in the paper delivery path. **The paper delivery path is clean.**

Y N

Clean the paper delivery path.

Remove the Fuser Unit (PL 5.1). Check for dirt on the surface of the Heat Roll. **The surface of the Heat Roll is clean.**

Y N

Clean the Heat Roll. If there is difficulty in removing the dirt, replace the Fuser Unit (PL 5.1).

Check the paper type. **Paper used is within specifications.**

Y N

Use paper within specifications.

Use paper from a freshly opened packet. **The problem reoccurs.**

Y N

End

Replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ14 Black Prints RAP

Paper is printed completely black.

Procedure

Check the moving parts of the IIT Carriage for foreign substances and distortion. **There are no foreign substances or distortion of the parts.**

Y N

Remove the foreign substances. If there is distortion in the Capstan Pulley, Capstan Shaft or Carriage Cable (PL 11.6), replace the parts accordingly.

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Remove the HVPS and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Check the connections of P/J500 and P/J406. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the wire between J500-4 and J403-A12 for an open circuit or a short circuit. **The wire between J500-4 and J403-A12 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the wires between J160 and J311 and between J170 and J311 for an open circuit or a short circuit. **The wires between J160 and J311 and between J170 and J311 are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the HVPS. If the problem persists, replace the ROS Unit (PL 3.1). If the problem persists, replace the MCU PWB (PL 9.1). If the problem persists, replace the ESS PWB (PL 9.2).

IQ15 Blank Image RAP

Paper is printed completely white.

Procedure

Check the installation of the ROS Unit. **The ROS Unit is installed correctly.**

Y N

Install the ROS Unit (PL 3.1) correctly.

Check the drum ground contact point for dirt and distortion. **The drum ground contact point is clean and there is no distortion.**

Y N

Clean the drum ground contact point and correct the distortion.

Remove the Xero/Developer Cartridge (PL 4.1) and reinstall. Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Install a new Xero/Developer Cartridge (PL 4.1). Turn the power Off/On and print. **The problem reoccurs.**

Y N

End

Set to print a black copy. During the print cycle, turn off the power after the feeding sound is heard (ie. terminate processing midway through copying). Check the surface of the drum. **There is a considerable amount of toner left on the surface of the drum.**

Y N

Check the connections of P/J140 and P/J406. **The connectors are connected correctly.**

Y N

Connect the connectors.

Check the installation of the ROS Unit. **The ROS Unit is installed correctly.**

Y N

Install the ROS Unit (PL 3.1) correctly.

Measure the voltage of the MCU PWB P406-2. **The voltage is approx. +5VDC.**

Y N

Replace the MCU PWB (PL 9.1).

Check the wire between J140 and J406 for an open circuit or a short circuit. **The wire between J140 and J406 is 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 9.1).

Replace the BTR. If the problem persists, replace the HVPS and the MCU PWB (PL 9.1).

Copy Quality Specifications

Test Patterns

Procedure

Test Patterns

1. The following test patterns are used with those products.
   Standard Test Pattern: USCO/XCL, 82P524; XL, 82P521.
   Output Reference Guide: USCO/XL, SIR 542.00.
   Visual Scale: USCO/XL, 82P448

Standard Test Pattern, 82P524/82P521

Procedure

This test pattern is the standard multinational test pattern used for the evaluation of copy quality for those products.

Side A (Figure 1) is used to evaluate solid area density, uniformity, exposure level, registration, skew, and lead edge deletion.

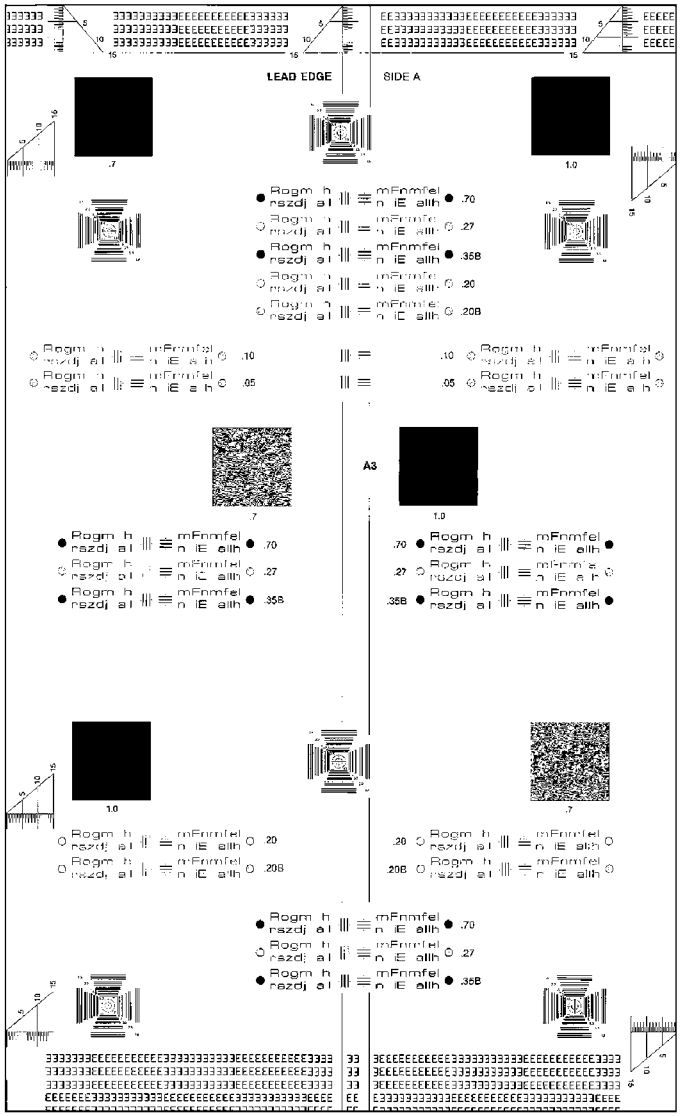


Figure 1 Standard Test Pattern (Side A)(j0st3201)

Side B (Figure 2) is used to evaluate skips and smears, resolution, and magnification.

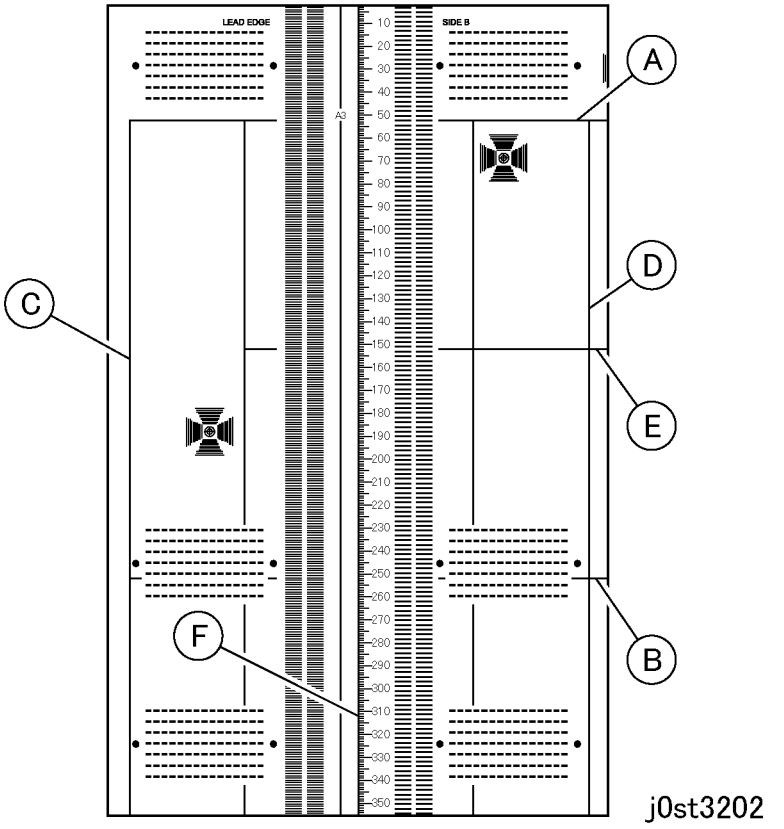


Figure 2 Standard Test Pattern (Side B)(j0st3202)

Output Reference Guide, SIR542.00

Procedure

This test document serves as a reference guide for measuring the solid area density of the Side A copies of the test pattern, 82P524 and 82P521 (Figure 3).

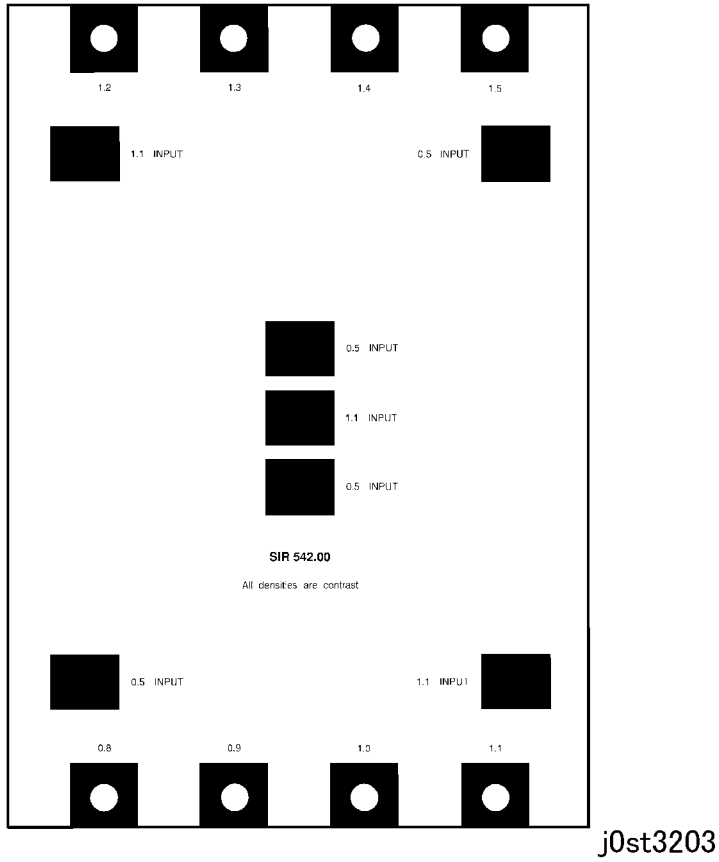
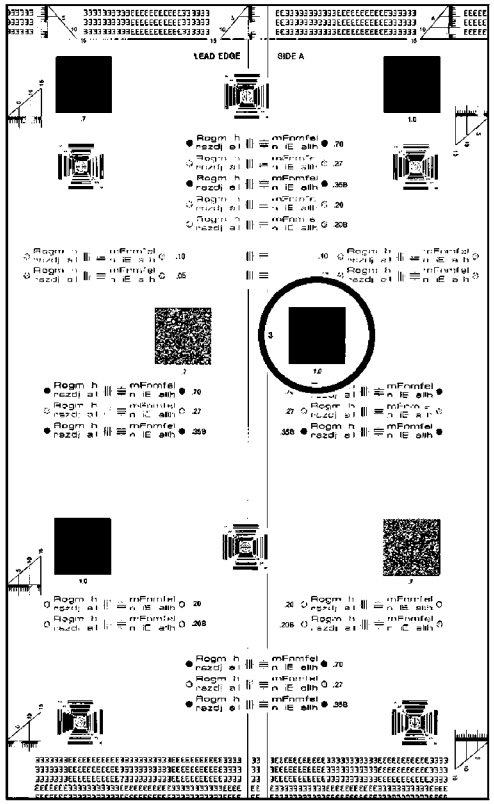


Figure 3 Output Reference Guide, SIR542.00 (j0st3203)

IQS1 Solid Area Density Specification

Procedure

Using Side A of the Standard Test Pattern (Figure 1), evaluate the solid area density per the following table.



j0st3204

Figure 1 Standard Test Pattern (SideA)(j0st3204)

Table 1 Solid Area Density Specification

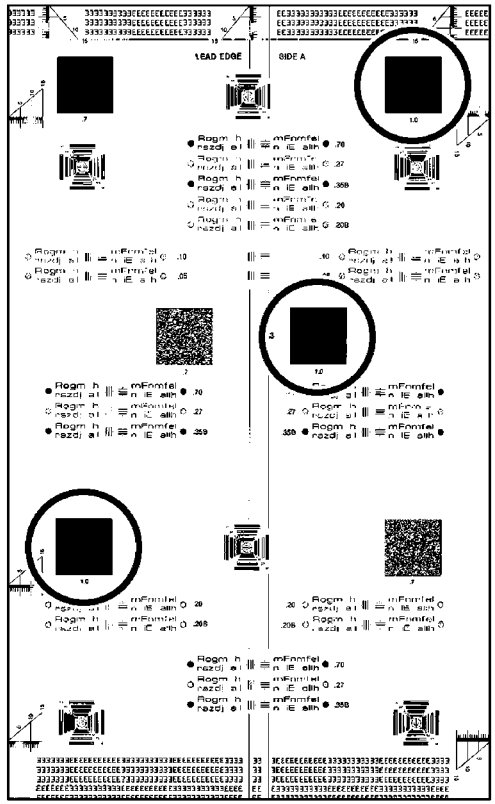
Copies	Copy Quality Mode	Specification	Input Density	Output Density
1	Normal	The 1.0 solid area density nearest the center of the copy should be the 1.0 solid area density block on the Output Reference Guide.	1.0	1.0

IQS2 Uniformity Specification

Procedure

Make a copy of Side A of the Standard Test Pattern.

The density of all the 1.0 blocks are same (Figure 1).



j0st3205

Figure 1 Standard Test Pattern 1.0 Blocks(j0st3205)

IQS3 Exposure Level Specification

Procedure

Use Side A of the Standard Test Pattern.

In the Standard Copy mode, and with the copy darkness control set at the middle of the scale, the 0.20G(Or0.20B) line pair must be copied completely.

In the Standard Copy mode, and with the copy darkness control set two level lighter from at the middle of the scale, the 0.10 line pair should not copy at all (Figure 1).

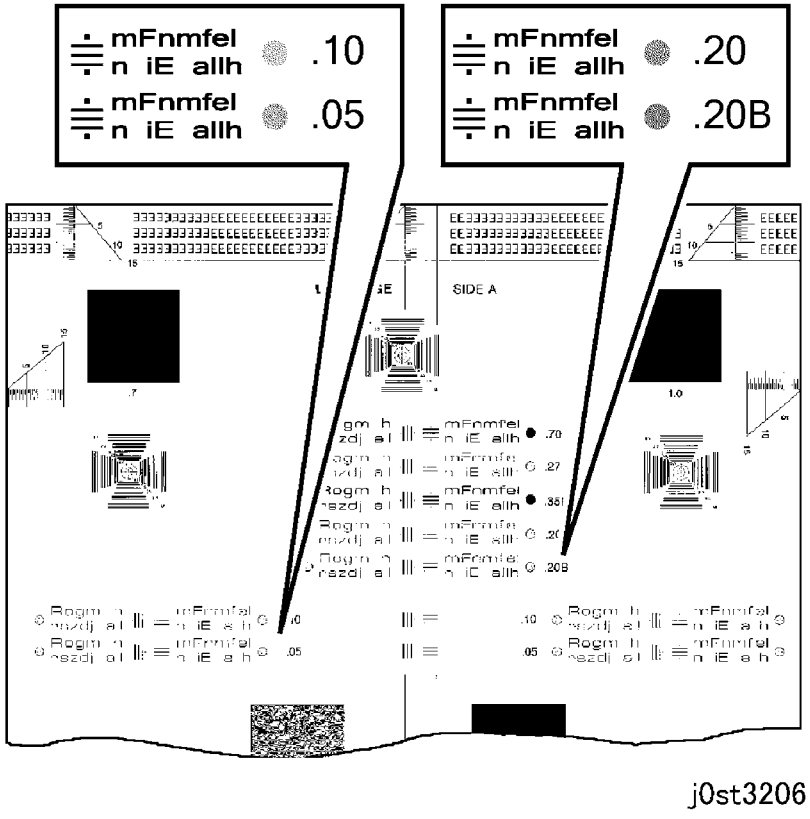


Figure 1 Exposure Level(j0st3206)

IQS4 Lead Edge Registration Specification

Procedure

Use Side A of the Standard Test Pattern.

The center 10 mm reference line on the copy must be 10 mm (plus or minus the ranges listed in the following charts) from the lead edge of a 100% copy (Figure 1).

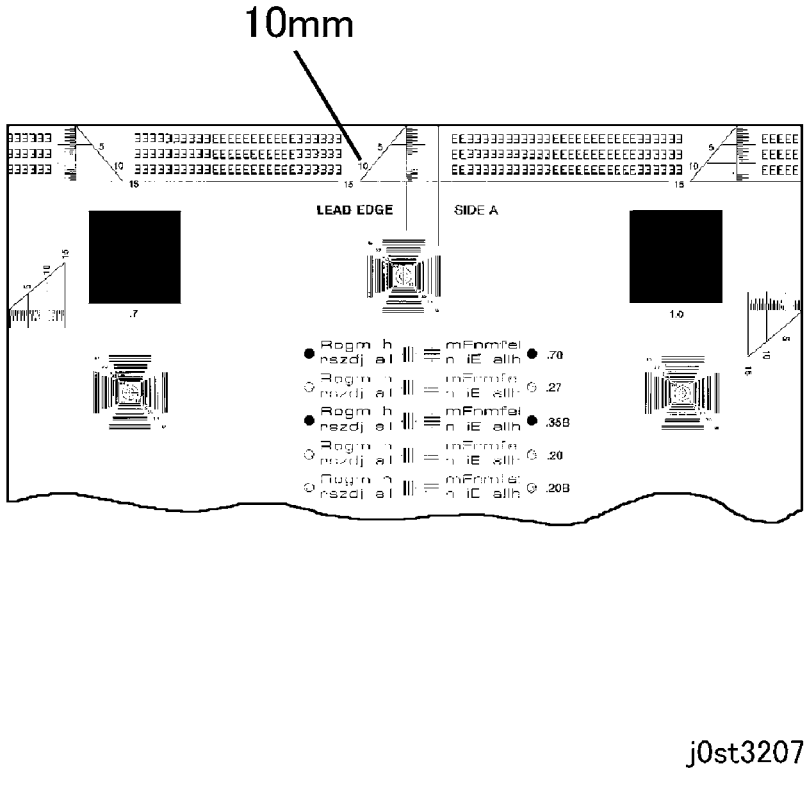


Figure 1 Lead Edge Registration(j0st3207)

Table 1 Specification of Lead Edge Registration

Configuration	Range
Platen(Simplex)	+/-1.6mm
Platen(Duplex)	+/-2.0mm
Platen(MPT)	+/-2.2mm

Table 1 Specification of Lead Edge Registration

Configuration	Range
DADF(Simplex)	+/-2.2mm
DADF(Duplex)	+/-3.0mm

IQS5 Side Edge Registration Specification

Procedure

Use Side A of the Standard Test Pattern.

For a copy that is folded in half, the crease in the copy should be within the following ranges from the center line of a 100% copy (Figure 1).

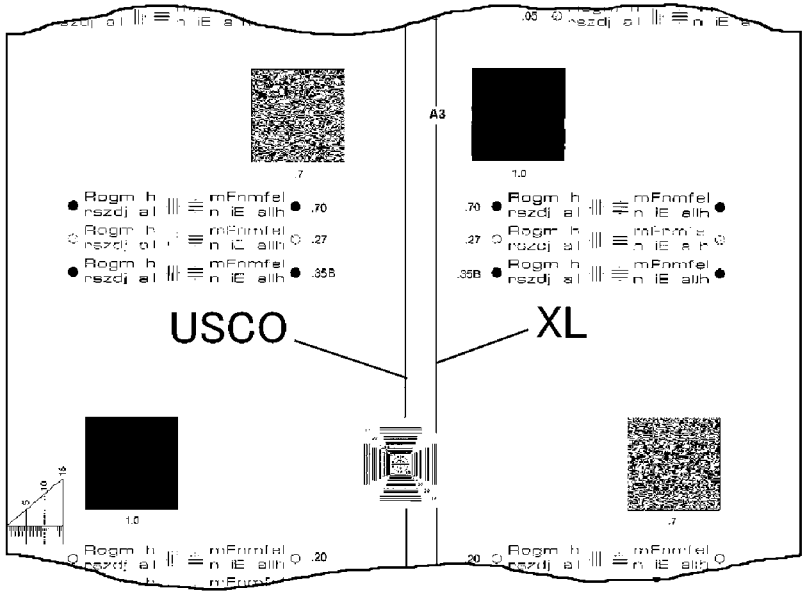


Figure 1 Side Edge Registration(j0st3208)

Table 1 Specification of Side Edge Registration

Configuration	Range
Platen(Simplex)	+/-2.1mm
Platen(Duplex)	+/-2.5mm
Platen(MPT)	+/-3.0mm

Table 1 Specification of Side Edge Registration

Configuration	Range
DADF(Simplex)	+/-2.9mm
DADF(Duplex)	+/-3.2mm

IQS6 Skew Specification

Procedure

Use Side A of the Standard Test Pattern.

Skew must be within the following ranges (with respect to each other) at the two 10 mm reference lines shown (Figure 1).

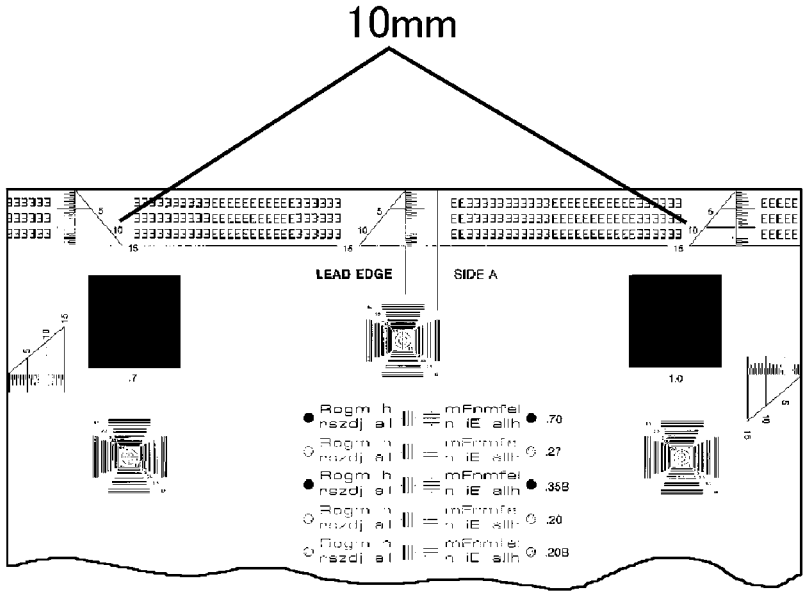


Figure 1 1 Skew(j0st3209)

Table 1 Specification of Skew

Configuration	Range
Platen(Simplex)	+/-1.42
Platen(Duplex)	+/-1.87
Platen(MPT)	+/-1.78

Table 1 Specification of Skew

Configuration	Range
DADF(Simplex)	+/-2.04
DADF(Duplex)	+/-2.40

IQS7 Lead Edge Deletion Specification

Procedure

Use Side A of the Standard Test Pattern.

The image deleted intentionally along the lead edge must be 2.0 mm from the lead edge of the copy (Figure 1).(maximum is 4mm)

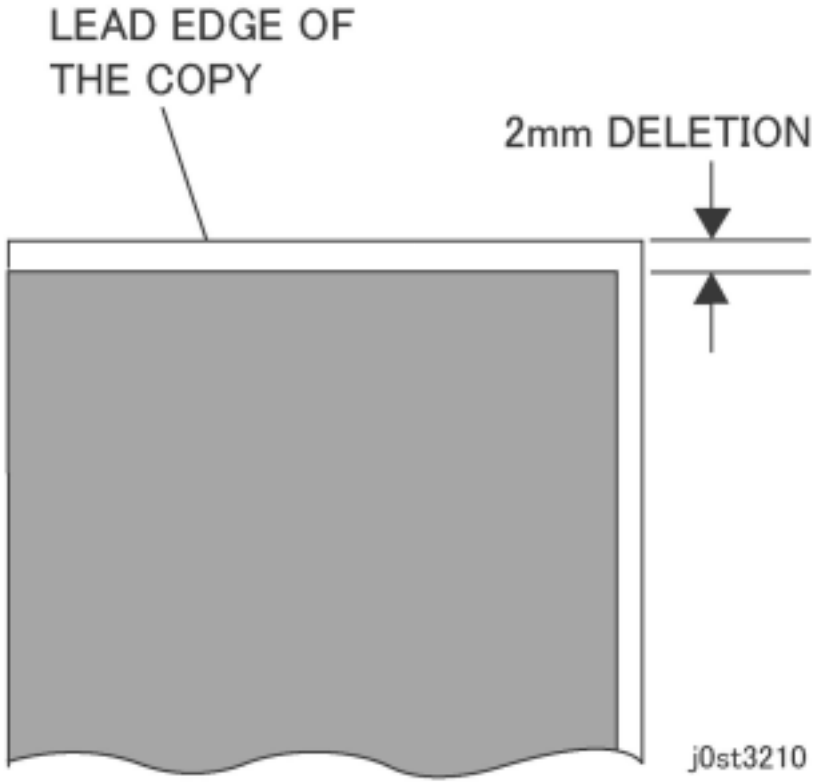


Figure 1 Lead Edge Deletion(j0st3210)

IQS8 Trail Edge Deletion Specification

Procedure

Use Side A of the Standard Test Pattern.

The image deleted intentionally along the trail edge must be 2mm from the trail edge of the copy (Figure 1). (maximum is 4mm)

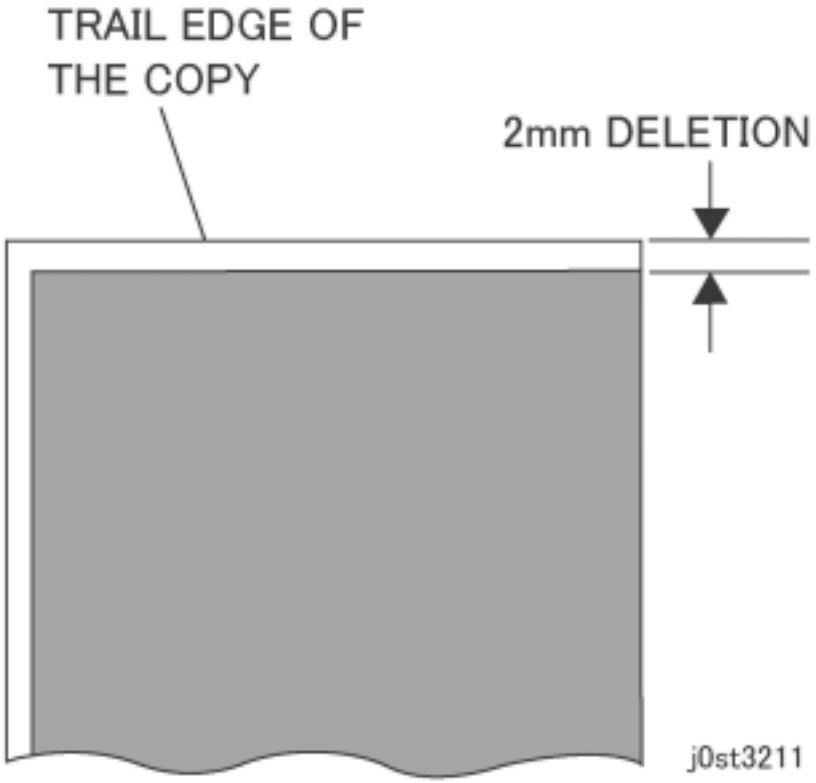


Figure 1 Trail Edge Deletion(j0st3211)

IQS9 Side Edge Deletion Specification

Procedure

Use Side A of the Standard Test Pattern.

The image deleted intentionally along both of side edge must be 2mm from the side edge of the copy (Figure 1). (maximum is 4mm)

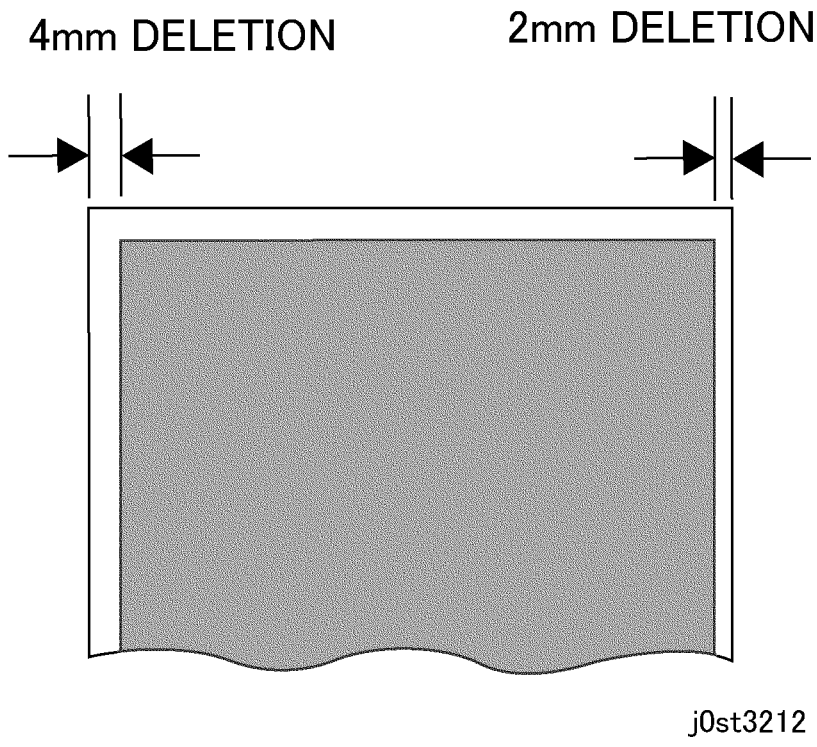


Figure 1 Side Edge Deletion(j0st3212)

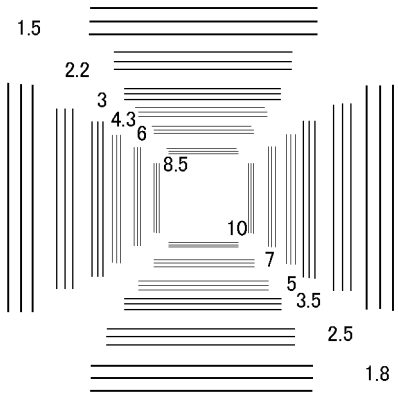
IQS10 Resolution Specification

Procedure

Use Side B of the Standard Test Pattern.

The complete resolution of designated LP/mm lines for specific magnification percentages is listed in Table below.

It is also required that the designated LP/mm lines be resolved in the top-to-bottom direction and the side-to-side direction over the entire copy (Figure 1).



j0st3213

Figure 1 Resolution(j0st3213)

Table 1 Resolution Specifications

Magnification(%)	Resolution LP/mm
70	2.5
100	4.3
141	3.5
200	3.5

IQS11 Skips And Smears Specification

Procedure

Use Side B of the Standard Test Pattern.

[Reduction]

Except for the first 2 mm from the lead edge of the copy, 1.8 ladder chart must be completely resolved.

[100% /Enlargement]

Except for the first 2 mm from the lead edge of the copy, 2.5 ladder chart must be completely resolved (Figure 1).

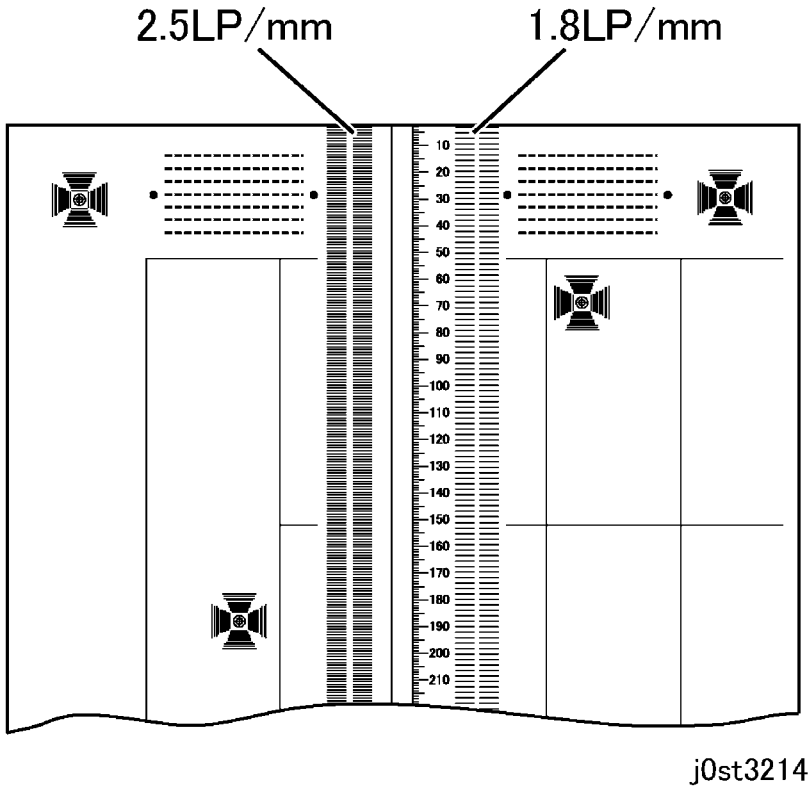


Figure 1 Skips and Smears(j0st3214)

Table 1 Skips and Smears Specifications

Magnification(%)	Ladder LP/mm
70	1.8
100	2.5
141	2.5
200	2.5

IQS12 Magnification Specification

Procedure

Use Side B of the Standard Test Pattern.

The tolerance for each magnification setting in the lead edge to trail edge direction and the front to rear direction are listed in Table below.

Table 1 Magnification Specifications

Magnification(%)	Measurement
65	130+/-2mm
101	202+/-2mm
154	154+/-2mm

Refer to Figure 1 for the areas to be measured. For 65% and 101%, use areas A and B for the magnification in the lead edge to trail edge direction; and areas C and D for magnification in the front to rear direction. For 154% use areas A and E for magnification in the lead edge to trail edge direction; and areas C and F for magnification in the front to rear direction.(Figure 1)

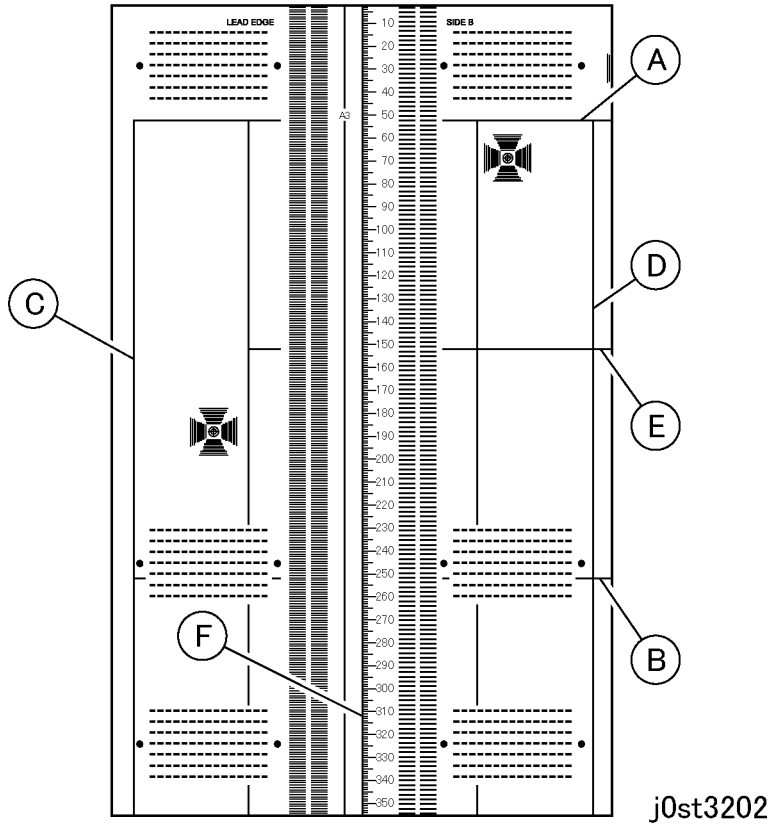


Figure 1 Areas of Side B to be Measured(j0st3202)

IQS13 Background Specification

Procedure

Use Side A of the Standard Test Pattern.

Compare images of the test pattern,(Figure 1) made from the document glass, with the visual scale,82P448.

The background of the images must not be darker than the reference area “C” (Figure 1).

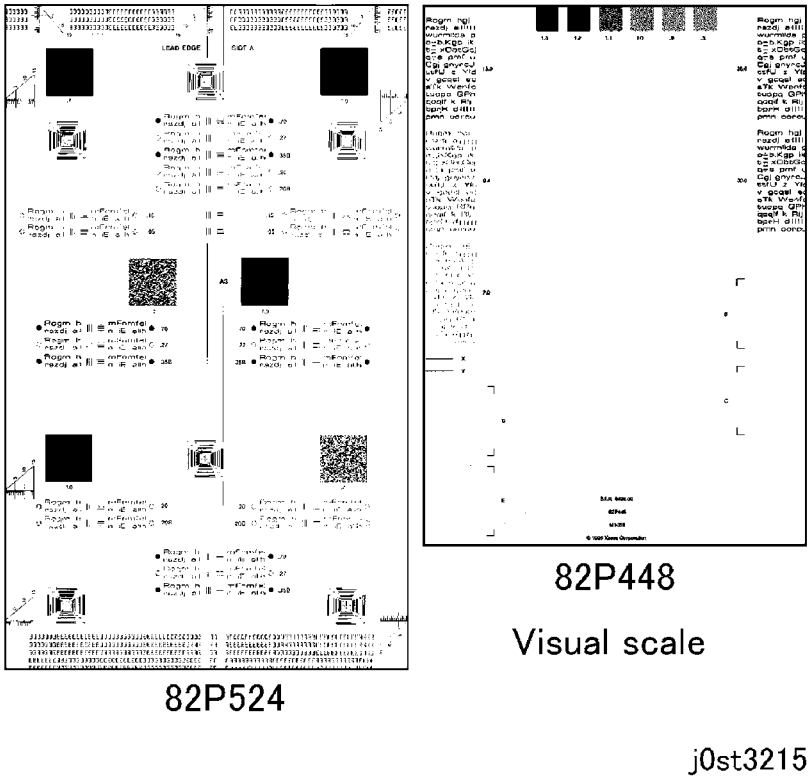


Figure 1 Test Pattern(j0st3215)

Image Defect Samples

IOT

The following figures contain examples of defects and their possible causes.

- Auger Mark
- Strobing (28mm or 14mm Pitch Density)
- White Streaks (Process Direction)
- Black Bands
- Toner Contamination
- Toner Splattering
- White Spots (Irregular)
- Transparency Offset (80mm Pitch Ghosts)
- Regular Blanks In Process Direction (Spots, Streaks, Bands etc.)
- Regular Toner Contamination In Process Direction (Spots, Streaks, Bands etc.)
- Regular Toner Contamination In Process Direction (Side 2)
- Transparency Blocking

IIT

The following figures contain examples of defects and their possible causes.

- Moire Due To Interference With Copy Original
- Light Background Due To Auto Exposure In Copies Of Originals With Frames
- Fluctuation In Auto Exposure Values For Copies Of Originals Of Medium Density
- Gradation Jump In Text & Photo Mode For 100 lpi Photo Originals
- CVT (Constant Velocity Transport) Scan Streaks
- Defects Related To Scan Print
- Moire In Text Mode (Fine) B/W Scan/Fax For 133 lpi Originals
- Black Discoloration Around White Texts In Medium Density Background

Auger Mark

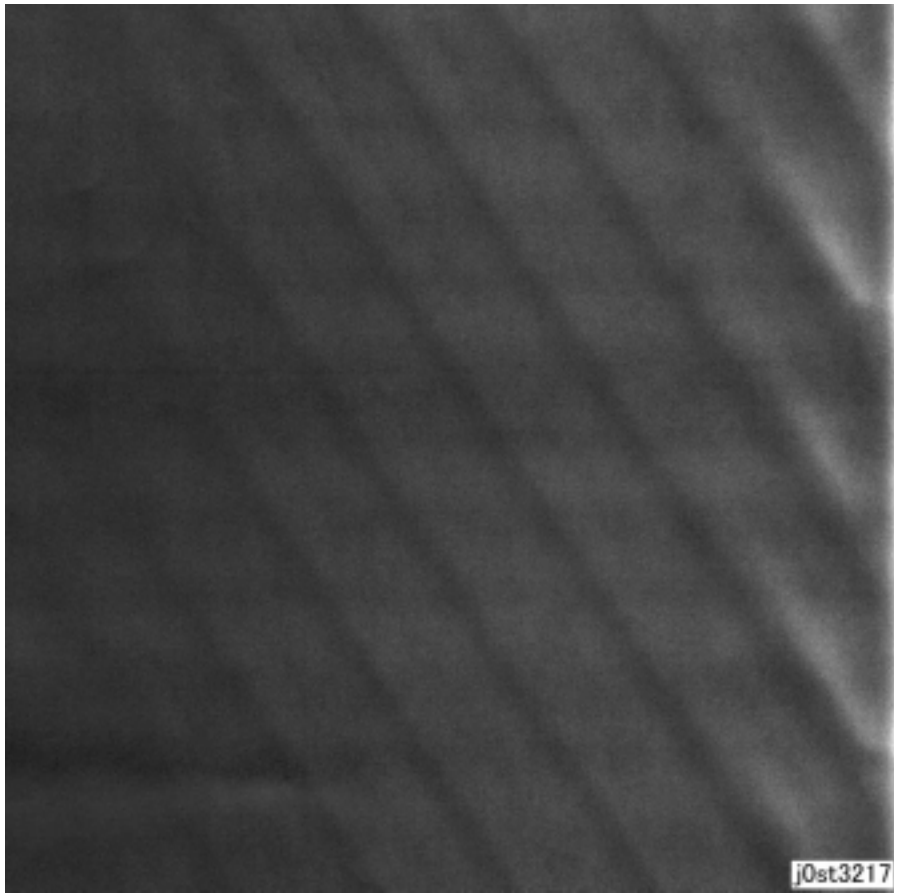


Figure 1 Auger Mark Defect Sample (j0st3217)

Cause

1. The Developer Magnetic Roll magnetic field failed.
2. There was a drop in the level of developer material.

Corrective Action

1. Replace the Xero/Developer Cartridge.

   NOTE: *This may occur immediately after a new CRU is installed. -> Correct by feeding a few sheets of paper.*

Strobing (28mm or 14mm Pitch Density)

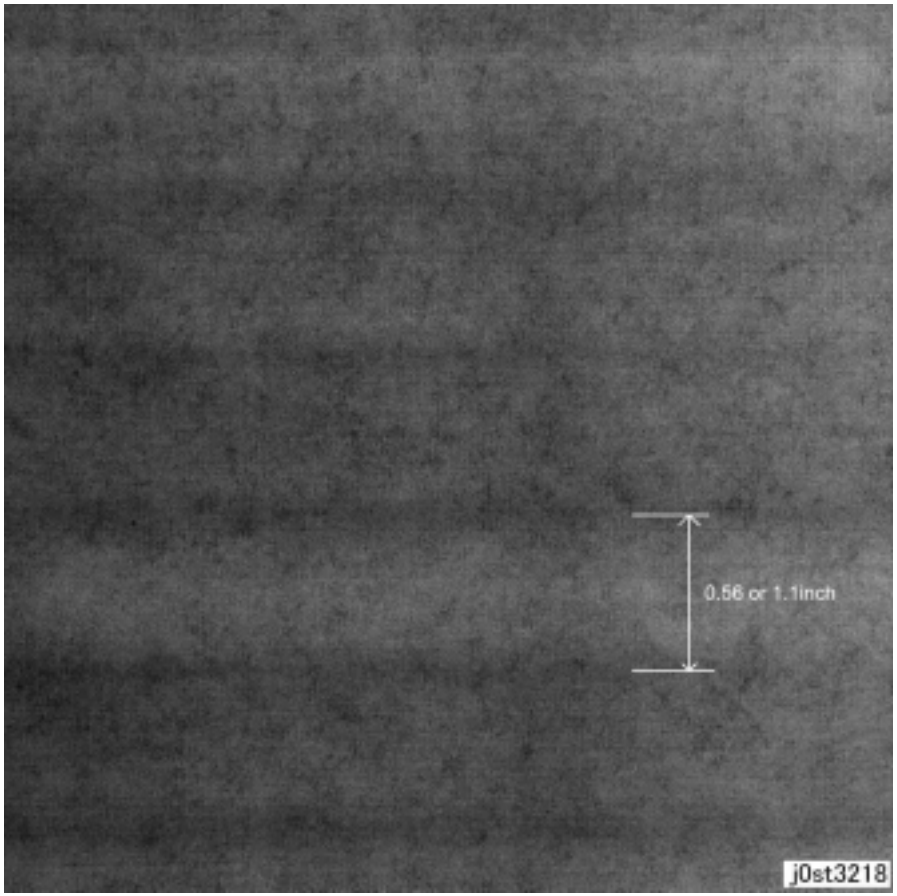


Figure 1 Strobing (28mm or 14mm Pitch Density) Defect Sample (j0st3218)

Cause

1. Developer Magnetic Roll bias.

Corrective Action

1. Replace the Xero/Developer Cartridge.

White Streaks (Process Direction)

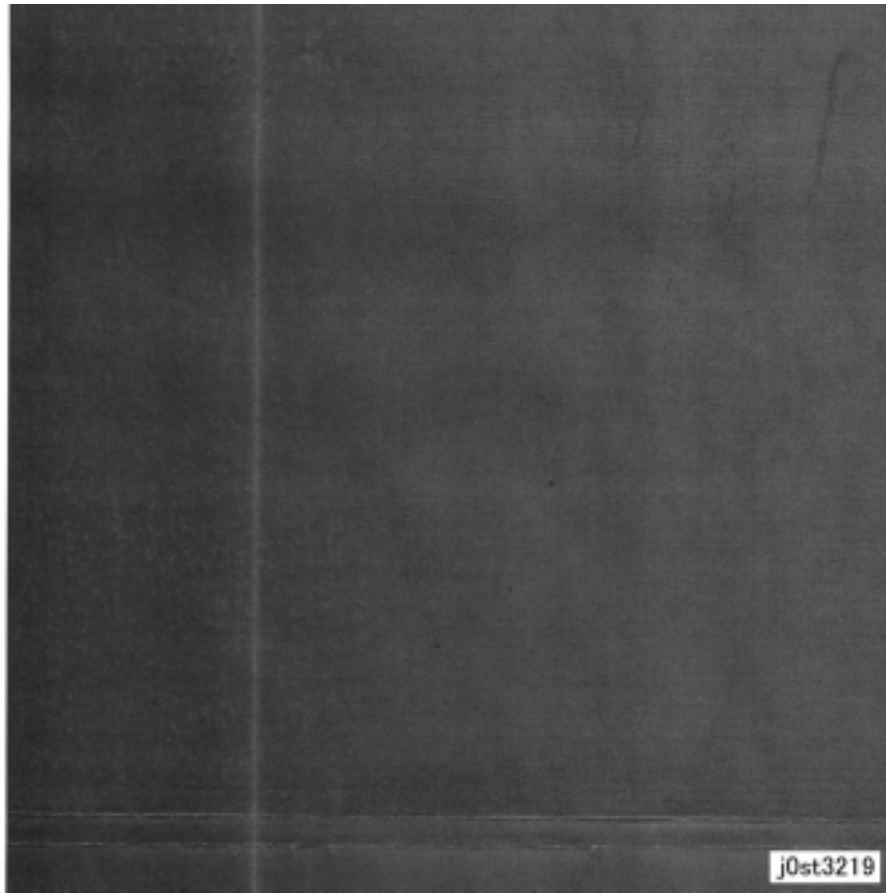


Figure 1 White Streaks (Process Direction) Defect Sample (j0st3219)

Cause

1. Foreign substances are blocking the ROS Laser.
2. Developer material clogging on the Developer Magnetic Roll due to foreign substances.

Corrective Action

1. Clean the light path between the ROS and the Xero/Developer Cartridge and the seal glass.
2. Replace the Xero/Developer Cartridge.

Black Bands

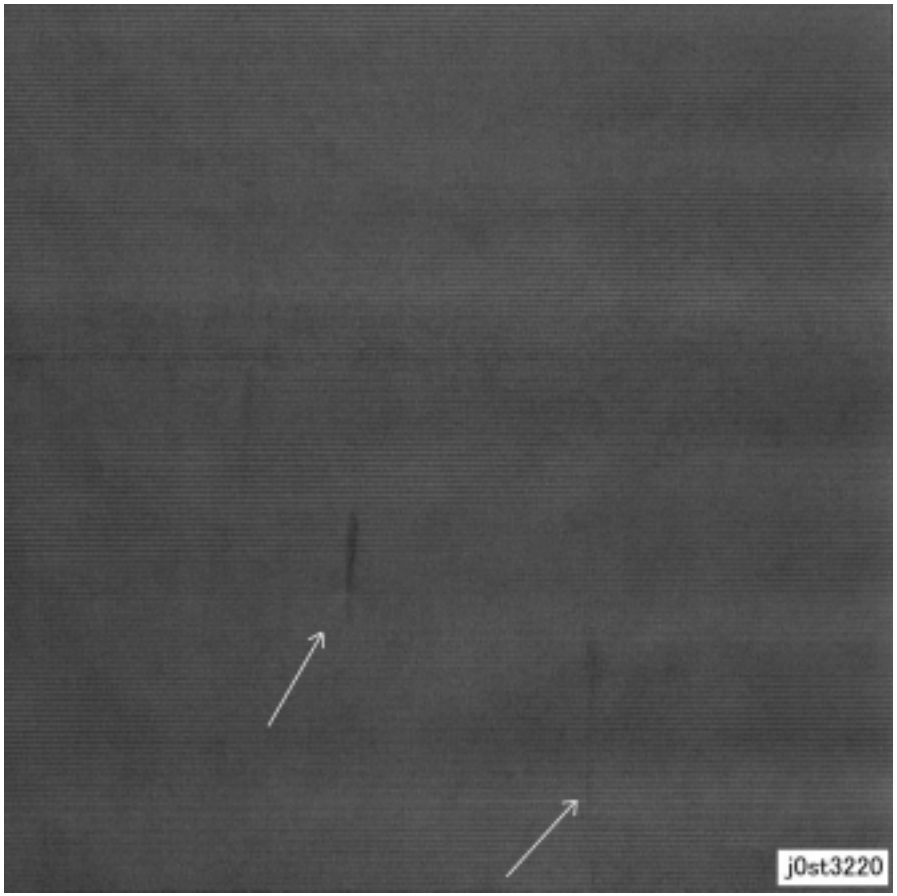


Figure 1 Black Bands Defect Sample (j0st3220)

Cause

1. The developer material is not well mixed.

Corrective Action

1. Mix the developer material by processing blank paper.

Toner Contamination

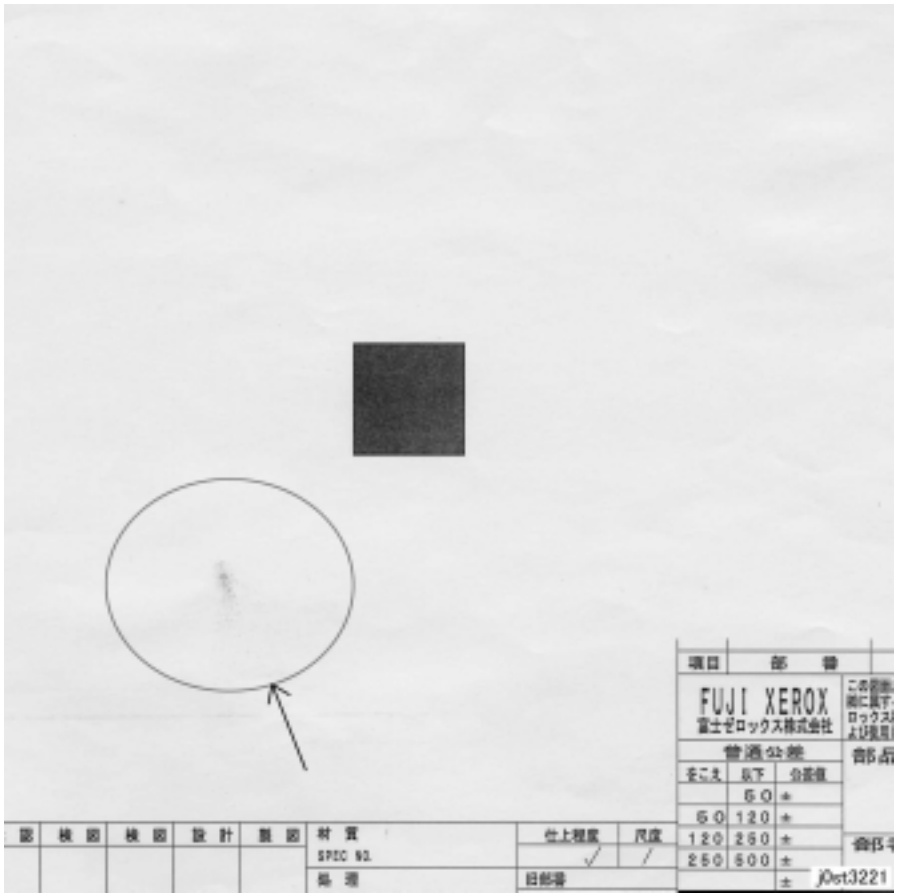


Figure 1 Toner Contamination Defect Sample (j0st3221)

Cause

1. Cloud toner dropped from the Xero/Developer Cartridge.

Corrective Action

1. Mix the developer material by processing blank paper.
2. Replace the Xero/Developer Cartridge.

Toner Splattering

Figure 1 Toner Splattering Defect Sample (j0st3222)

Cause

1. Paper size mismatch occurred (tray settings and paper size are different).
2. The resistance of the paper increased under dry conditions.

Corrective Action

1. Check the tray settings.
2. Use paper from a freshly opened packet.

White Spots (Irregular)

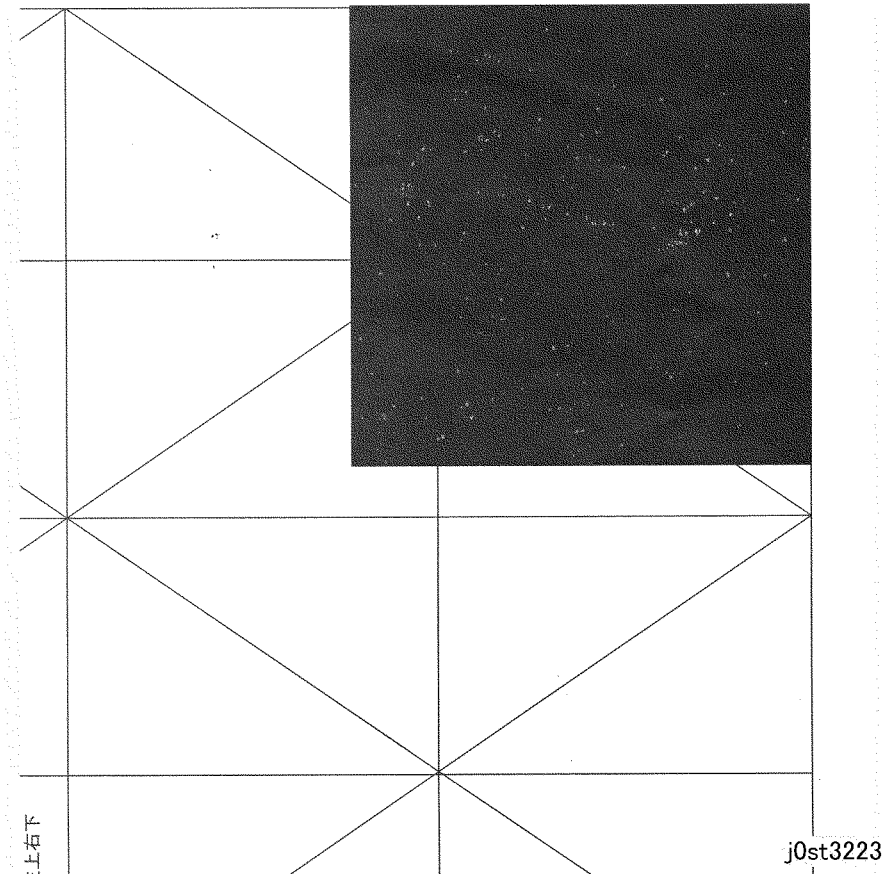


Figure 1 White Spots (Irregular) Defect Sample (j0st3223)

Cause

1. The resistance of the paper increased under dry conditions.

Corrective Action

1. Use paper from a freshly opened packet.

Transparency Offset (80mm Pitch Ghosts)

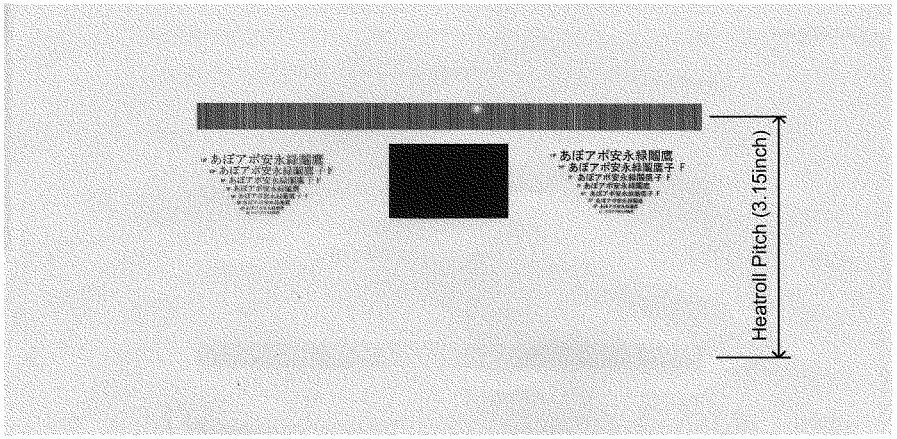


Figure 1 Transparency Offset (80mm Pitch Ghosts) Defect Sample (j0st3224)

Cause

1. Transparencies were processed in Plain Paper mode.

Corrective Action

1. Select Transparency mode.

Regular Blanks In Process Direction (Spots, Streaks, Bands etc.)

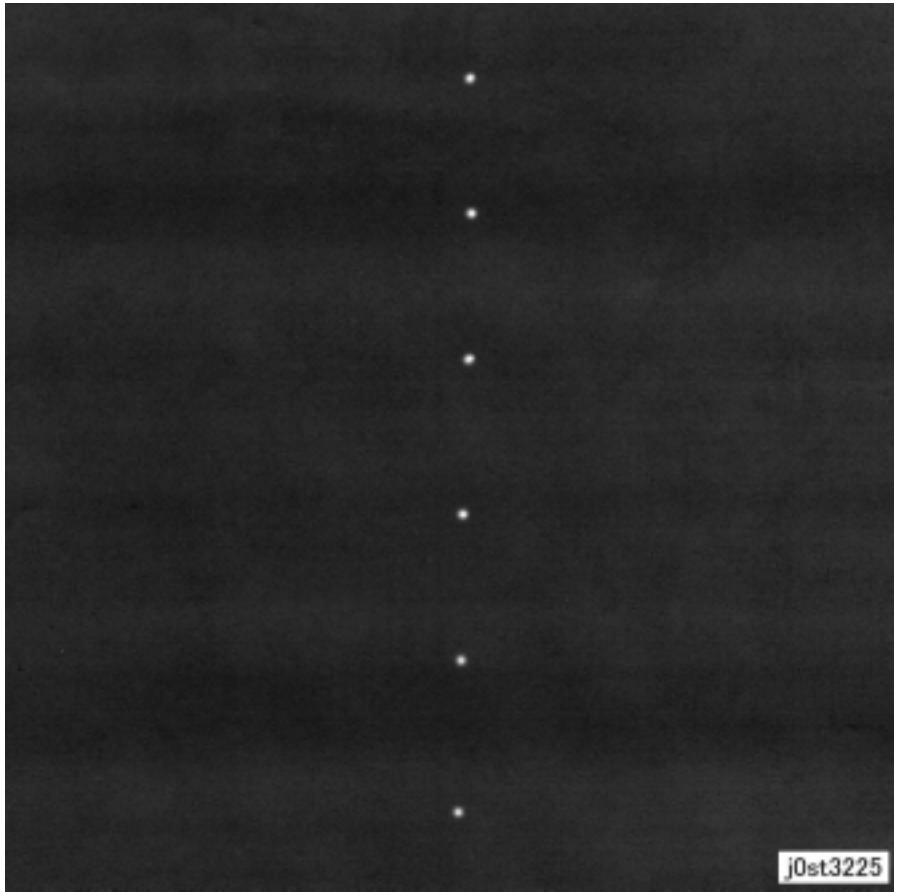


Figure 1 Regular Blanks In Process Direction (Spots, Streaks, Bands etc.) Defect Sample (j0st3225)

Cause

1. 94mm pitch -> Drum: Scratches or foreign substances
2. 28mm pitch -> Developer Roll: Developer material fixed on the Developer Roll
3. 44mm pitch -> Charger: Scratches or foreign substances
4. 80mm pitch -> Fuser H/R: Scratches or foreign substances

Corrective Action

1. 1, 4 : Clean or replace the Xero/Developer Cartridge or the Fuser Unit.
2. 2, 3 : Replace the Xero/Developer Cartridge.

Regular Toner Contamination In Process Direction (Spots, Streaks, Bands etc.)

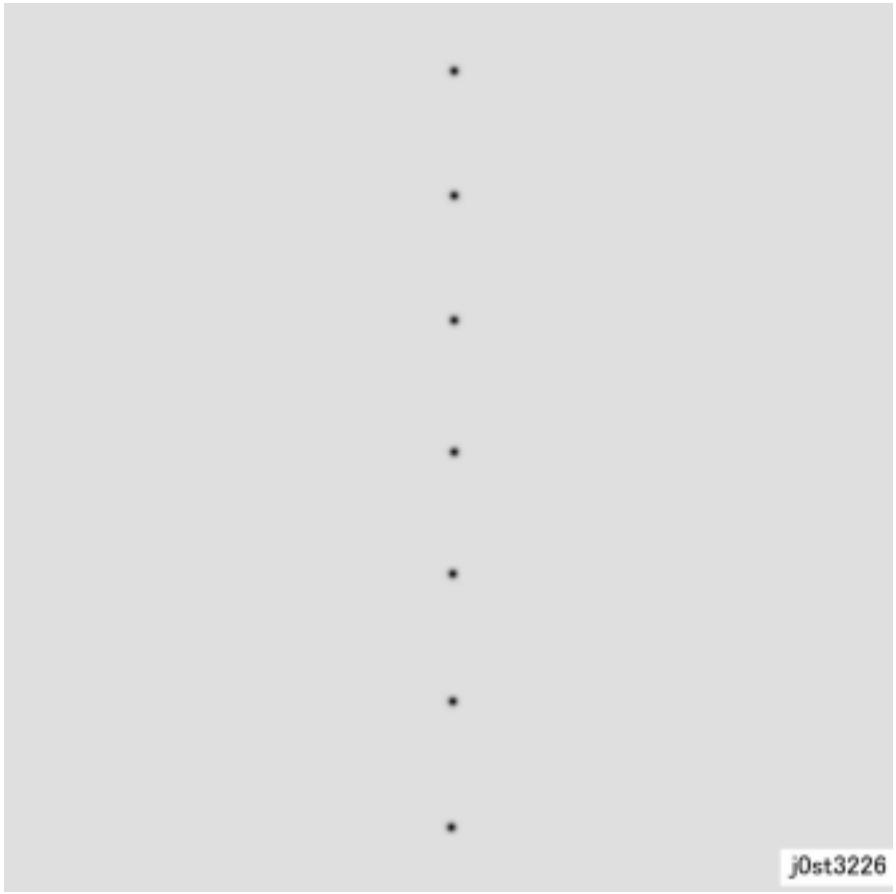


Figure 1 Regular Toner Contamination In Process Direction (Spots, Streaks, Bands etc.) Defect Sample (j0st3226)

Cause

1. 94mm pitch -> Drum: Scratches or foreign substances
2. 28mm pitch -> Magnetic Roll: Developer material fixed on the Magnetic Roll
3. 44mm pitch -> BCR: Scratches or foreign substances
4. 80mm pitch -> Heat Roll: Scratches or foreign substances
5. 19mm pitch -> Fuser Roll-Exit: Dirt
6. 44mm pitch -> Registration: Dirt

Corrective Action

1. 1, 4, 5, 6 : Clean or replace the Xero/Developer Cartridge or the Fuser Unit.
2. 2, 3 : Replace the Xero/Developer Cartridge.

Regular Toner Contamination In Process Direction (Side 2)

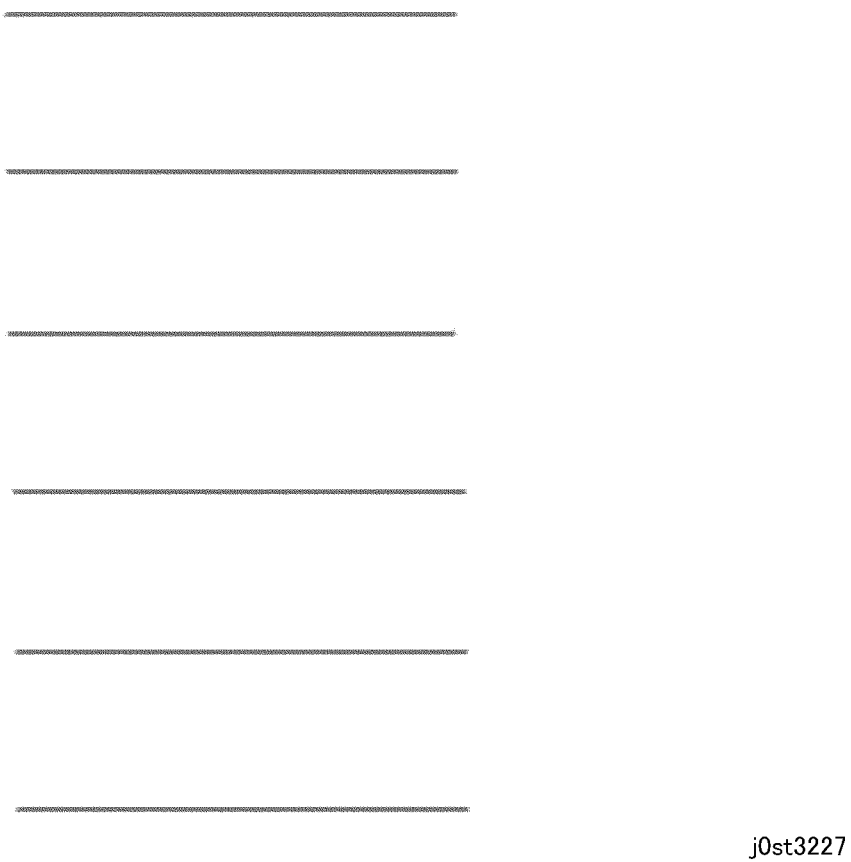


Figure 1 Regular Toner Contamination In Process Direction (Side 2) Defect Sample (j0st3227)

Cause

1. 94mm pitch -> Fuser Pressure Roll: Scratches or foreign substances
2. 59mm pitch -> BRT Roll: Dirt, scratches or paper size mismatch
3. 44mm pitch -> Pinch Roll: Dirt

Corrective Action

1. 1, 2, 3 : Clean or replace the relevant parts.
2. 2 : Change the tray settings.

Transparency Blocking

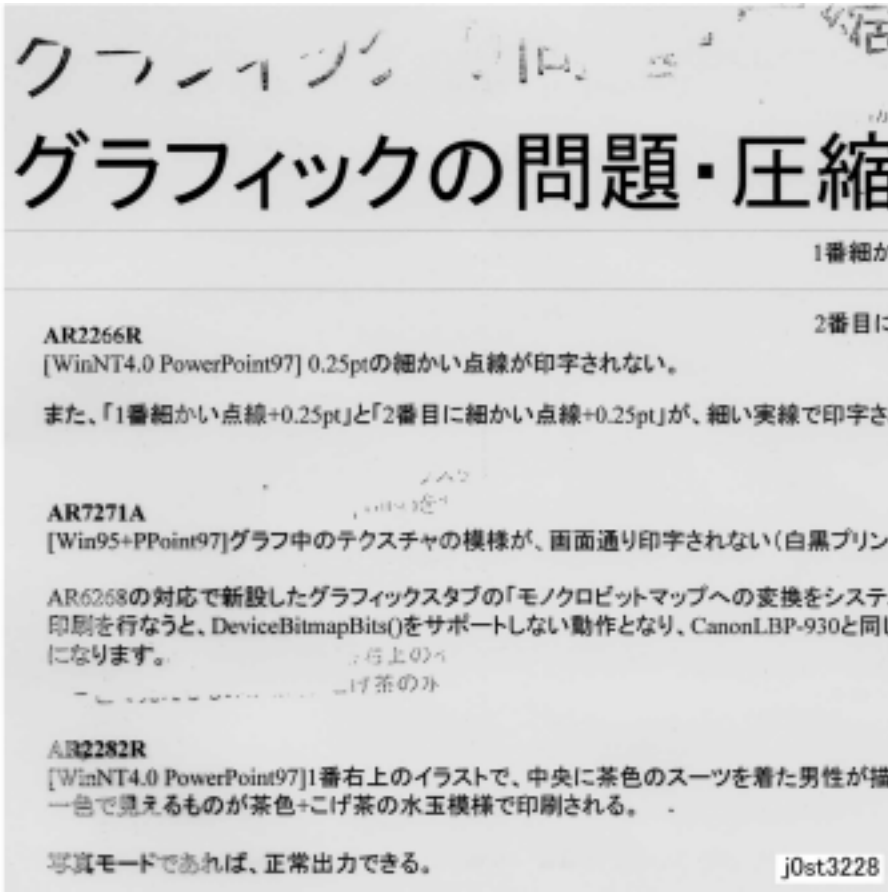


Figure 1 Transparency Blocking Sample Image (j0st3228)

Cause

1. Transparencies were continuously printed in Plain Paper mode.

Corrective Action

1. Select Transparency mode.

Moire Due To Interference With Copy Original

Cause

When copying, interference with the original may cause moire. Combinations of certain angles of screen ruling near 150lpi and Reduce/Enlarge ratio may cause moire. Precautions should be taken during enlargement.

Corrective Action

- Reduce sharpness.
  Secondary defect: Text is blurred.
- Make copies at a different Reduce/Enlarge ratio.
- Change the orientation of the original.

Light Background Due To Auto Exposure In Copies Of Originals With Frames

When Auto Exposure is turned [On] for originals with dark frames along the Lead Registration Edge, the suppression value is set so large such that areas of medium density appear extremely light.

Figure 1 Light Background Due To Auto Exposure In Copies Of Originals With Frames Defect Sample (j0st3229)

Cause

Auto Exposure performs background detection of images at a distance of up to 10mm from the Lead Registration Edge. As there were dark frames along the Lead Registration Edge, Auto Exposure could not detect the original background density. Therefore, Auto Exposure was performed based on the density of the frames.

Corrective Action

- Disable Auto Exposure.

Fluctuation In Auto Exposure Values For Copies Of Originals Of Medium Density

When Auto Exposure is turned [On] for originals with background of medium density (0.5G), the effectiveness of Auto Exposure fluctuates for each job.

Cause

As medium density (0.5G) is near the upper limit value for background detection, the Auto Exposure value fluctuates according to the result of background detection that varies according to the variations in the density of the original and how the original is placed.

Corrective Action

- Disable Auto Exposure.

Gradation Jump In Text & Photo Mode For 100 lpi Photo Originals

In Text mode, making copies of images of 100 lpi (halftone dot) gradation may result in a tone jump.

Figure 1 Gradation Jump In Text & Photo Mode For 100 lpi Photo Originals Defect Sample (j0st3230)

Cause

As Text & Photo mode gives priority to 175 lpi halftone dots and text quality, Sharpen Edge is performed for lower lpi.

Corrective Action

- Make copies in Photo mode.

Secondary defect: Text is blurred.

- Change the setting from [More Text] to [Text], and then to [Photo] and [More Photo].

  Secondary defect: Image quality of photographs deteriorate in [More Text] and [Text] settings. Text becomes blurred in [More Photo] and [Photo] settings.

CVT (Constant Velocity Transport) Scan Streaks

Streaks may occur in the CVT, even if they do not occur in the Platen.

Cause

Even though CVT streak detection is performed for both color and B/W scans, there may be cases where foreign substances on the CVT Glass could not be detected and removed.

Corrective Action

- Clean the CVT Glass.

Defects Related To Scan Print

Moire may occur when scanned images are printed.

Cause

Interference with the printer screen and printer driver resolution conversion processing by the original causes moire.

Corrective Action

- Reduce sharpness.

  Secondary defect: Text is blurred.

Moire In Text Mode (Fine) B/W Scan/Fax For 133 lpi Originals

During Fax Scan and B/W Scan mode, moire occurs in Text mode halftone dot images. Or, moire is especially obvious in Text mode (Fine) 133 lpi halftone dot images.

Cause

In Text mode, text is given priority, causing halftone dot moires.

Corrective Action

- Change from Text mode to Text & Photo mode or Photo mode.

  However, as the amount of data increases in Text & Photo mode, the machine takes a longer time for transmission.

Black Discoloration Around White Texts In Medium Density Background

Black discoloration occurs around white texts with a certain background density, causing difficulties in reading the text.

Cause

Discoloration occurs during resolution conversion in Fax Send.

Due to separation error in text graphic separation, parts determined as text are darkened and are output as graphics that look like dark smears.

Occurrences and severity of the occurrences vary according to the combinations of Send/Receive type, Send route and Receive settings.

Corrective Action

- Perform sending and document storage according to the capabilities of the receiver.

  It is possible to suppress resolution conversion during Send/Receive by preventing a mismatch in Send image quality (resolution).
- Change the setting for resolution conversion processing to [More Photo].

  Secondary defect: As this reduces the sensitivity for separation between text and photographs, edges appear less smooth.

4 Repairs and Adjustments

Repairs

Adjustments

4. Xerographics/Development

7. MPT

9. Electrical Components

11. IIT

15. DADF

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. [33CPM Model]
   - Remove the Takeaway Motor Assembly. (REP 1.1.2)
2. Remove the ESS Cover Assembly. (Figure 1)
   1. Loosen the screws (x2).
   2. Remove the ESS Cover Assembly.

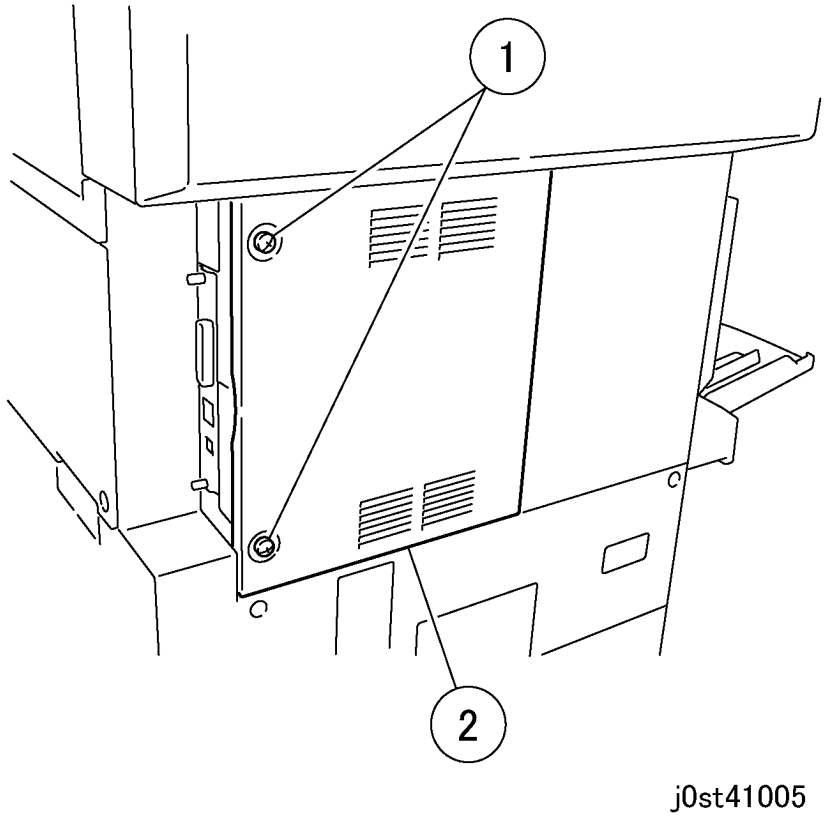


Figure 1 Removing the ESS Cover Assembly (j0st41005)

3. Remove the Rear Middle Cover. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the Rear Middle Cover.

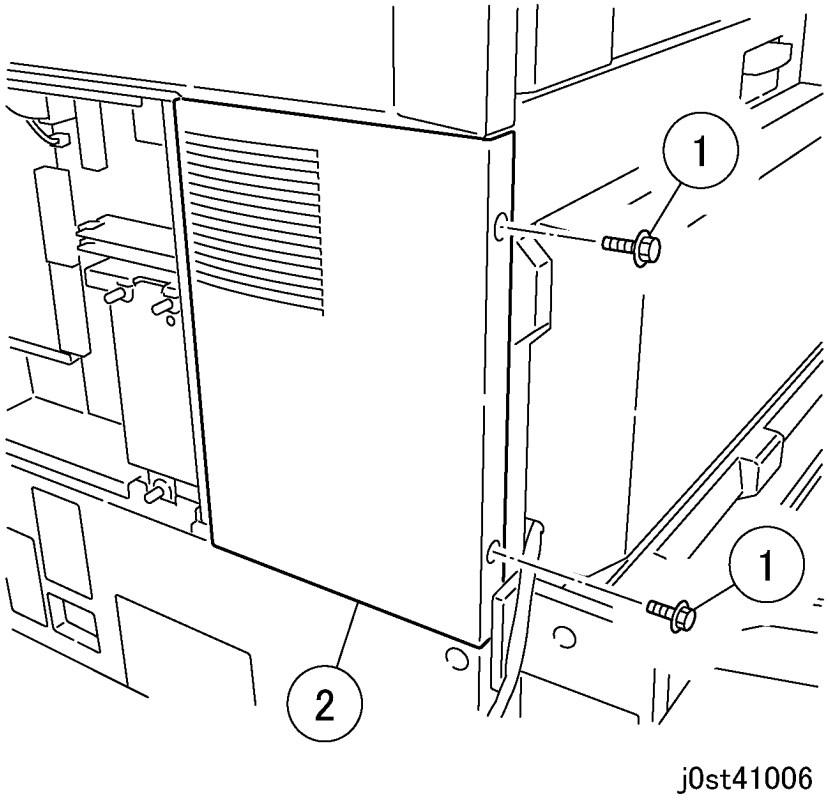


Figure 2 Removing the Rear Middle Cover (j0st41006)

4. Open the L/H Upper Cover Assembly. (PL 2.6)
5. Disconnect the belt and connector. (Figure 3)
    1. Remove the flange.
    2. Remove the belt.

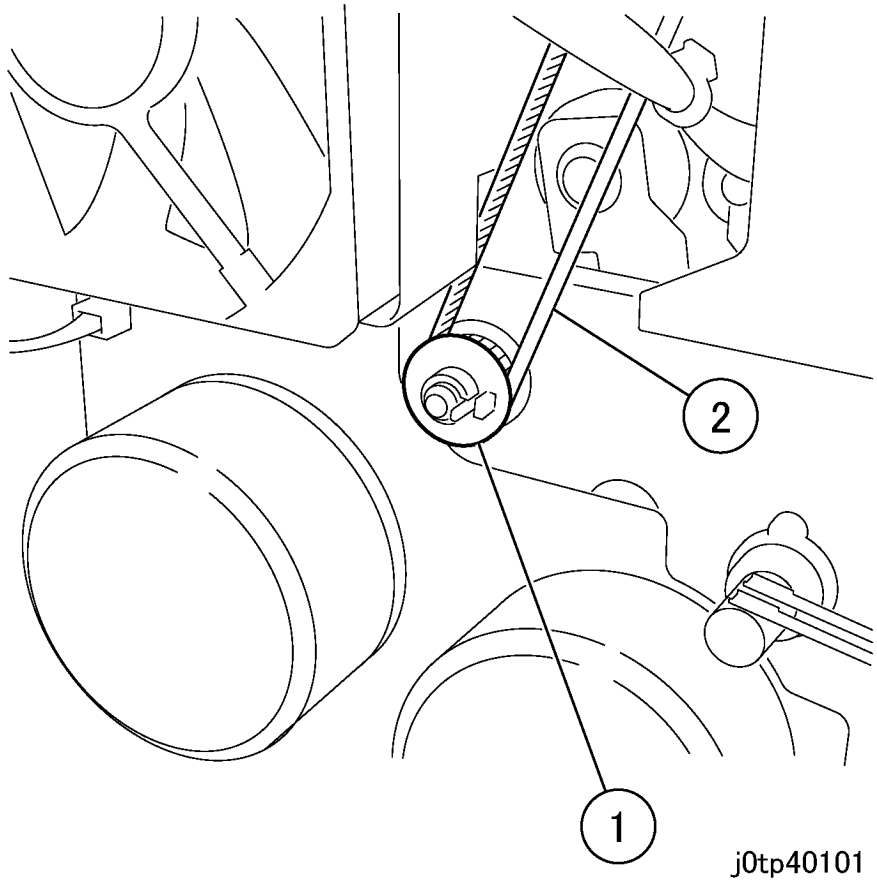


Figure 3 Disconnecting the belt and connector (j0tp40101)

6. [23/28 CPM Model]
    - Perform steps 7 and 8.

    [33 CPM Model]
    - Go to step 8.

7. Remove the bracket. (Figure 4)
    1. Remove the screws (x2).
    2. Remove the bracket.

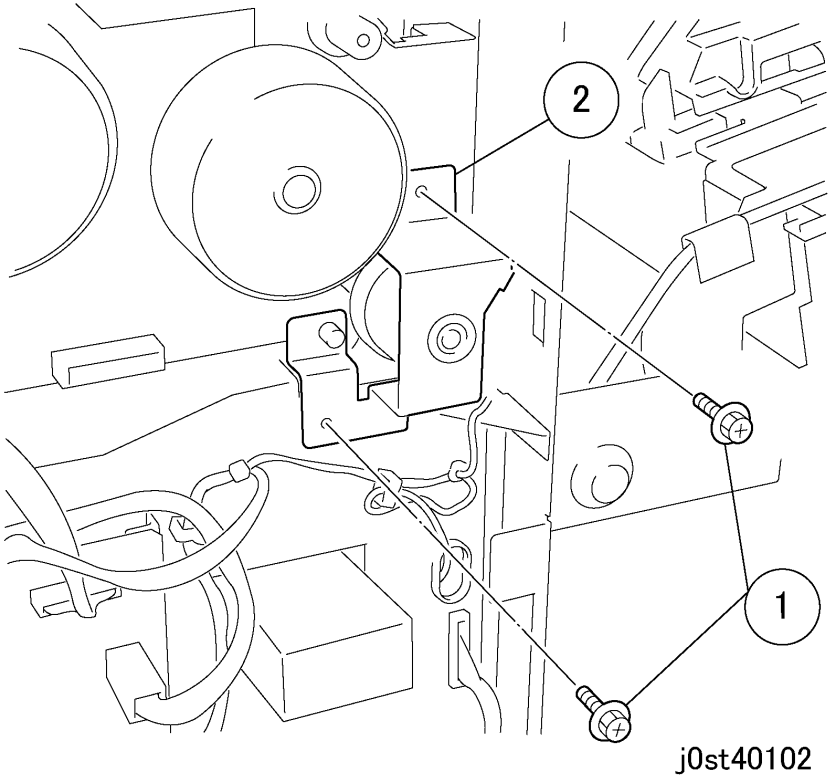


Figure 4 Removing the bracket (j0st40102)

8. Remove the Main Drive Assembly. (Figure 5)
    1. Disconnect.
    2. Disconnect.
    3. Remove the screws (x4).
    4. Remove the Main Drive Assembly.

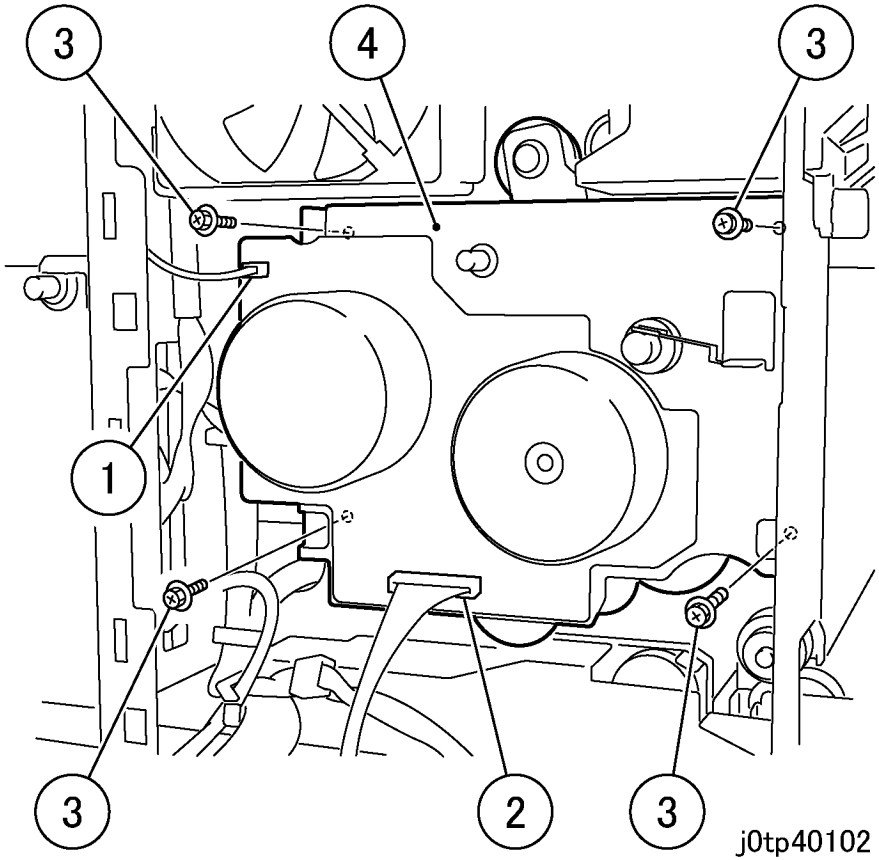


Figure 5 Removing the Main Drive Assembly (j0tp40102)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.1.2 Takeaway Motor Assembly

Parts List on PL 1.1

Removal

WARNING

To avoid personal injury or electric shock, do not perform repairs or adjustments with electrical power applied to the machine.

CAUTION

To prevent data loss when the power is turned off, note the following.

[FAX models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

[Printer models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Rear Lower Cover. (REP 10.2.1)
2. Open the L/H Upper Cover.
3. Remove the KL-Clip. (Figure 1)
   1. Remove the KL-Clip.

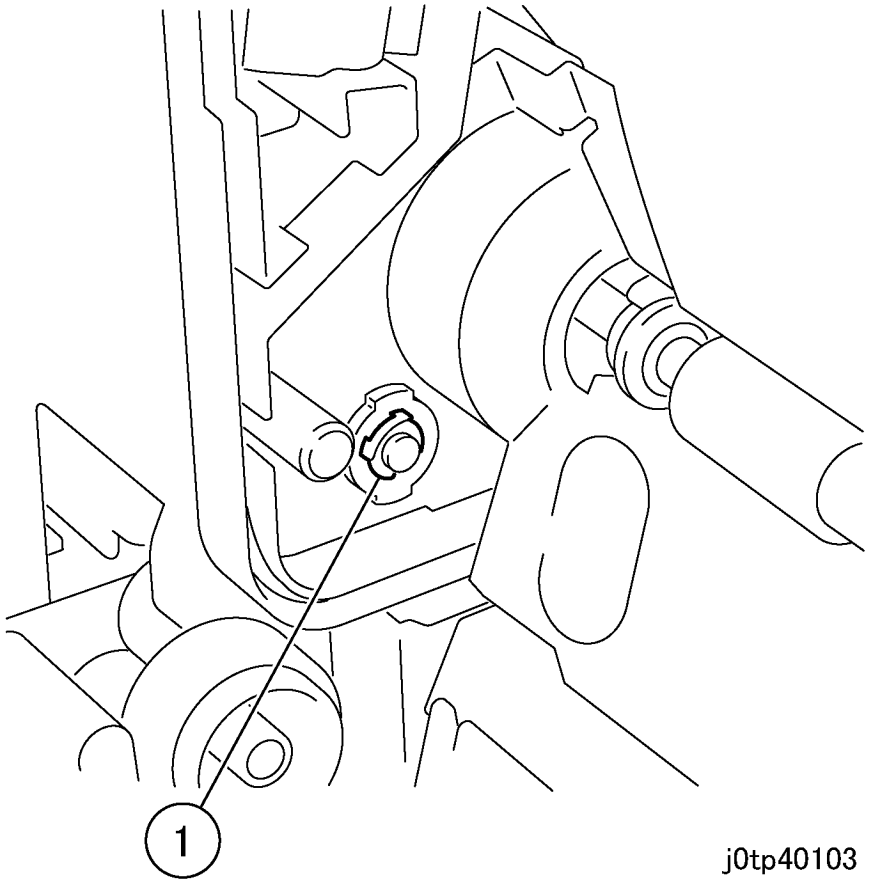


Figure 1 Removing the KL-Clip (j0tp40103)

4. Remove the Takeaway Motor Unit. (Figure 2)
    1. Disconnect the connector.
    2. Release the Wire Harness from the clamps (x2)
    3. Remove the screws (x3)
    4. Remove the Takeaway Motor Unit.

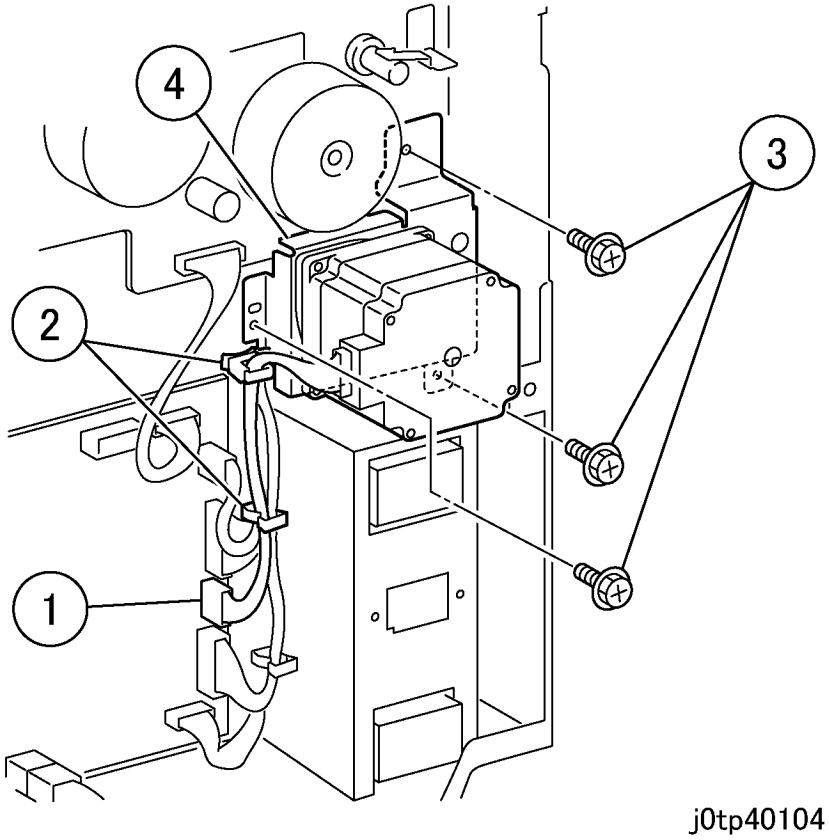


Figure 2 Removing the Takeaway Motor Unit (j0tp40104)

5. Remove the Gear. (Figure 3)
    1. Remove the gear.

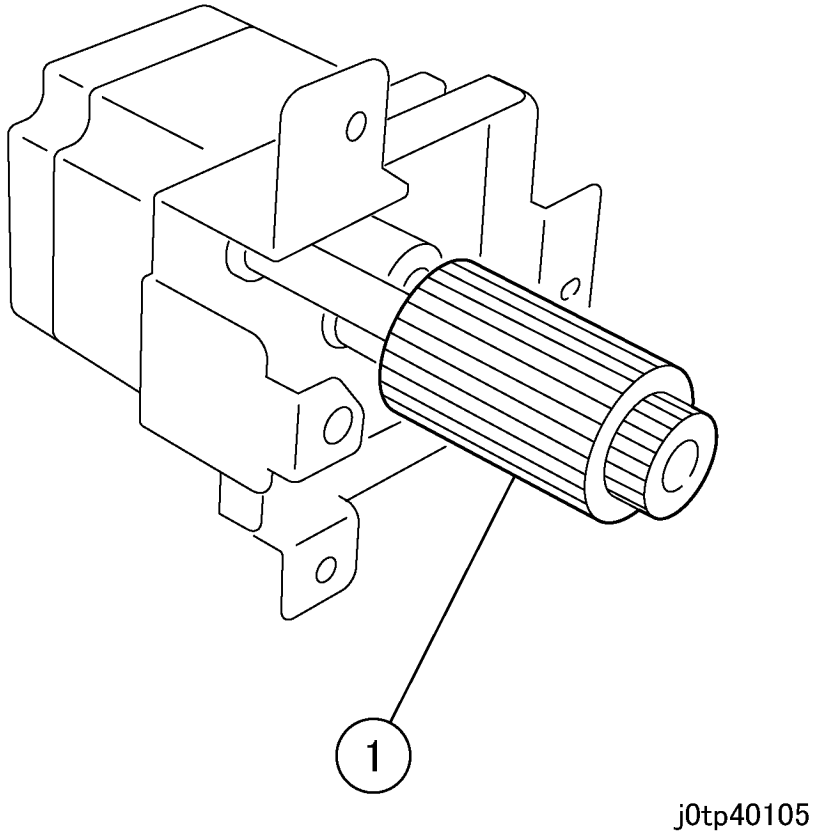


Figure 3 Removing the Gear (j0tp40105)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.1.1 Feeder 1 Assembly

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the MPT Assembly. (REP 7.1.1)
2. Remove the L/H Upper Cover Unit. (REP 2.6.2)
3. [23/28 CPM Model]
   - Perform steps 4, 6 and 7.

   [33 CPM Model]
   - Perform steps 5, 6 and 7.
4. Remove the Gear Assembly. (Figure 1)
   1. Remove the screws (x3).
   2. Remove the Gear Assembly.
   3. Disconnect the connector.

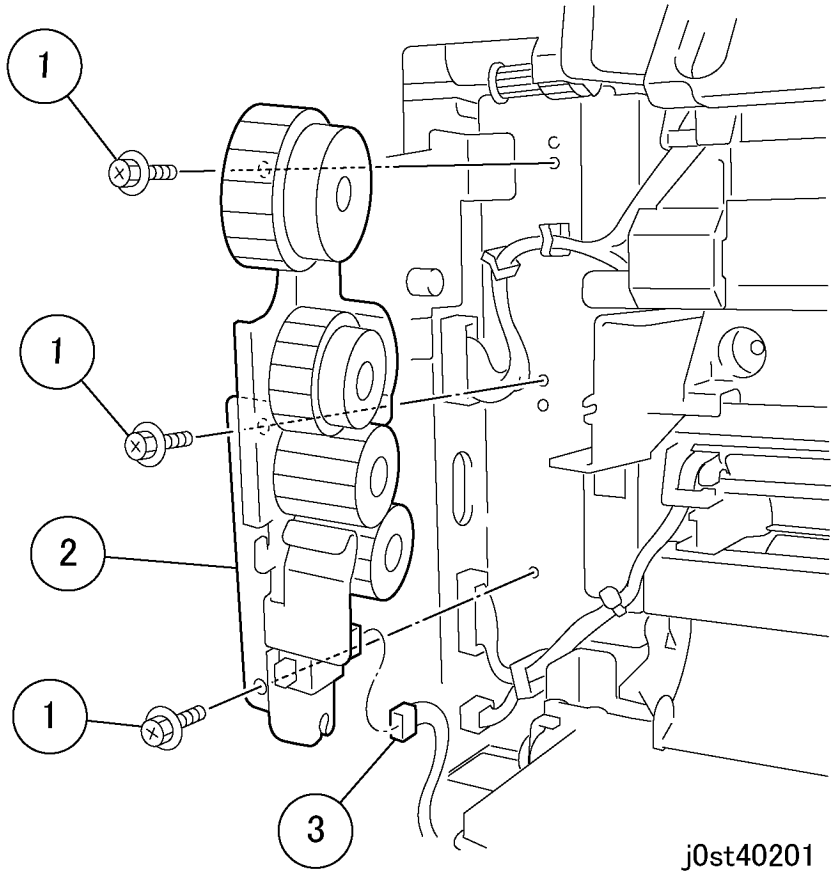


Figure 1 Removing the Gear Assembly (j0st40201)

5. Remove the Gear Assembly. (Figure 2)
    1. Release the Wire Harness.
    2. Disconnect the connector.
    3. Remove the screws (x2).
    4. Remove the Gear Assembly.

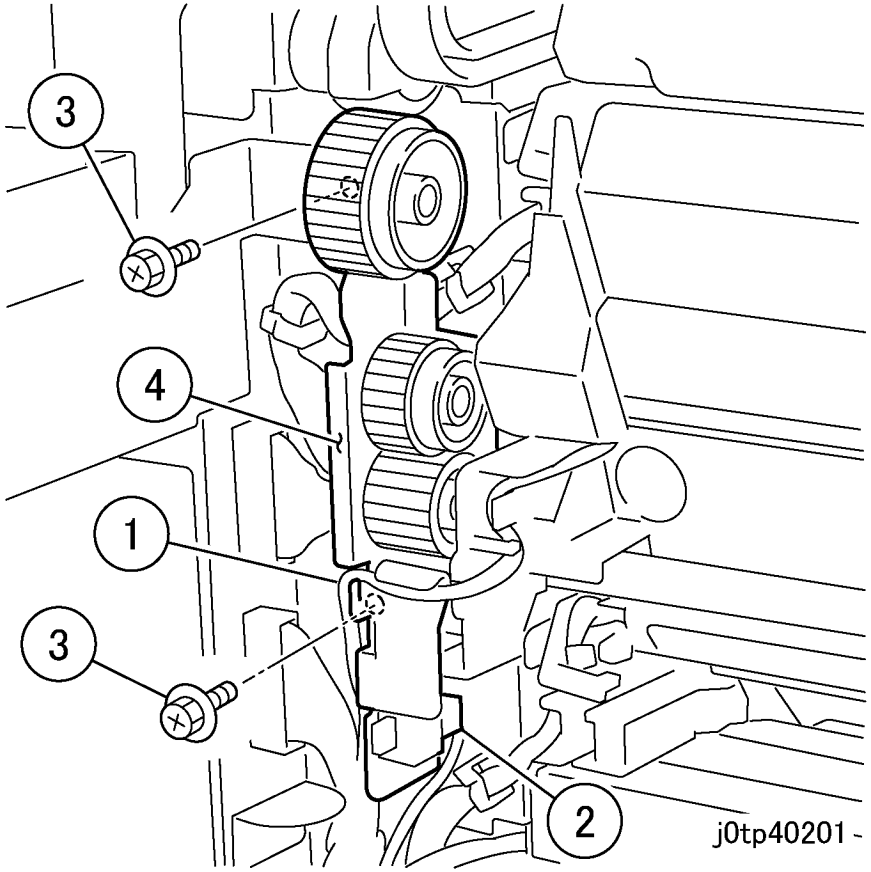


Figure 2 Removing the Gear Assembly (j0tp40201)

6. Remove Tray 1.

7. Remove the Feeder 1 Assembly. (Figure 3)
    1. Disconnect P/J601.
    2. Release the Wire Harness from the clamps (x2).
    3. Remove the screws (x2).
    4. Remove the Feeder 1 Assembly.

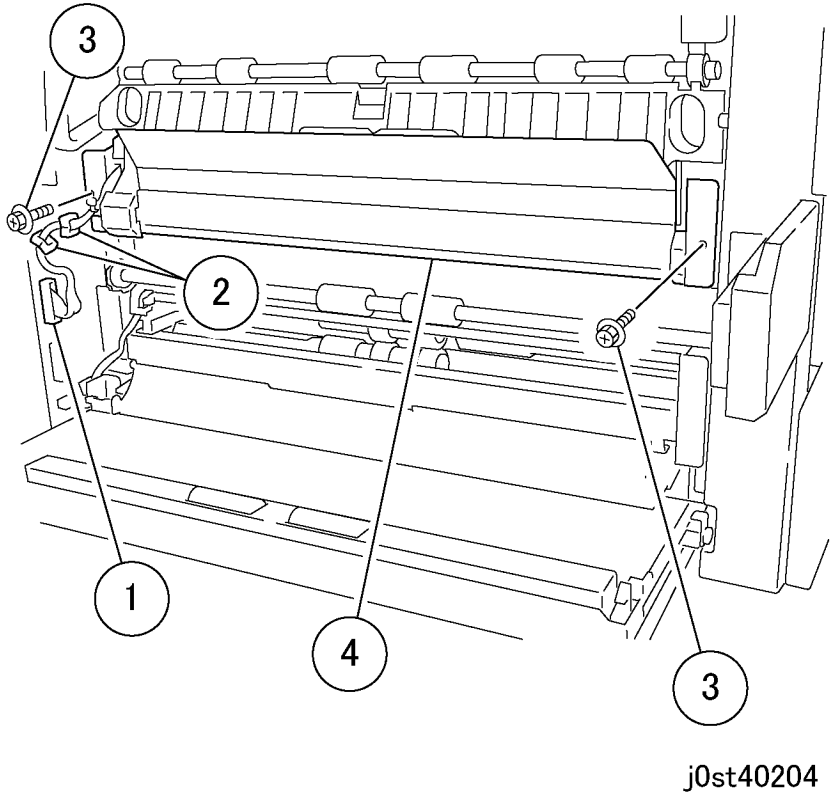


Figure 3 Removing the Feeder 1 Assembly (j0st40204)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.1.2 Feeder 2 Assembly

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the MPT Assembly. (REP 7.1.1)
2. Open the L/H Lower Cover.
3. Remove Tray 2.
4. [23/28 CPM Model]
   - Perform steps 5 and 7.

   [33 CPM Model]
   - Perform steps 6 and 7.
5. Remove the Gear Assembly. (Figure 1)
   1. Remove the screws (x3).
   2. Remove the Gear Assembly.
   3. Disconnect the connector.

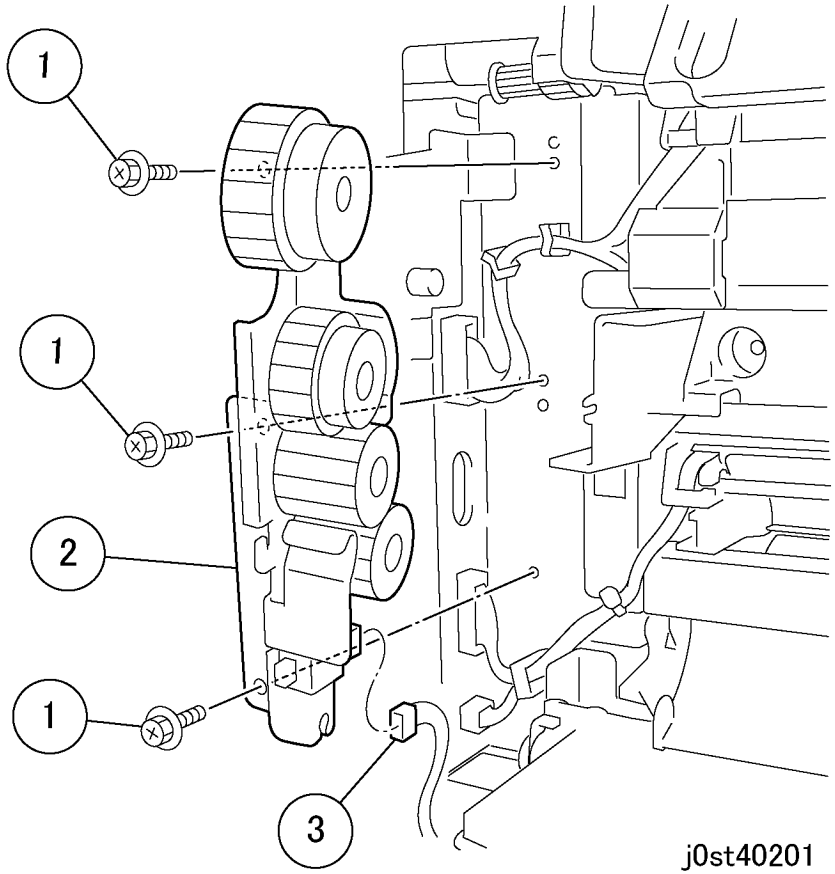


Figure 1 Removing the Gear Assembly (j0st40201)

6. Remove the Gear Assembly. (Figure 2)
    1. Release the Wire Harness.
    2. Disconnect the connector.
    3. Remove the screws (x2).
    4. Remove the Gear Assembly.

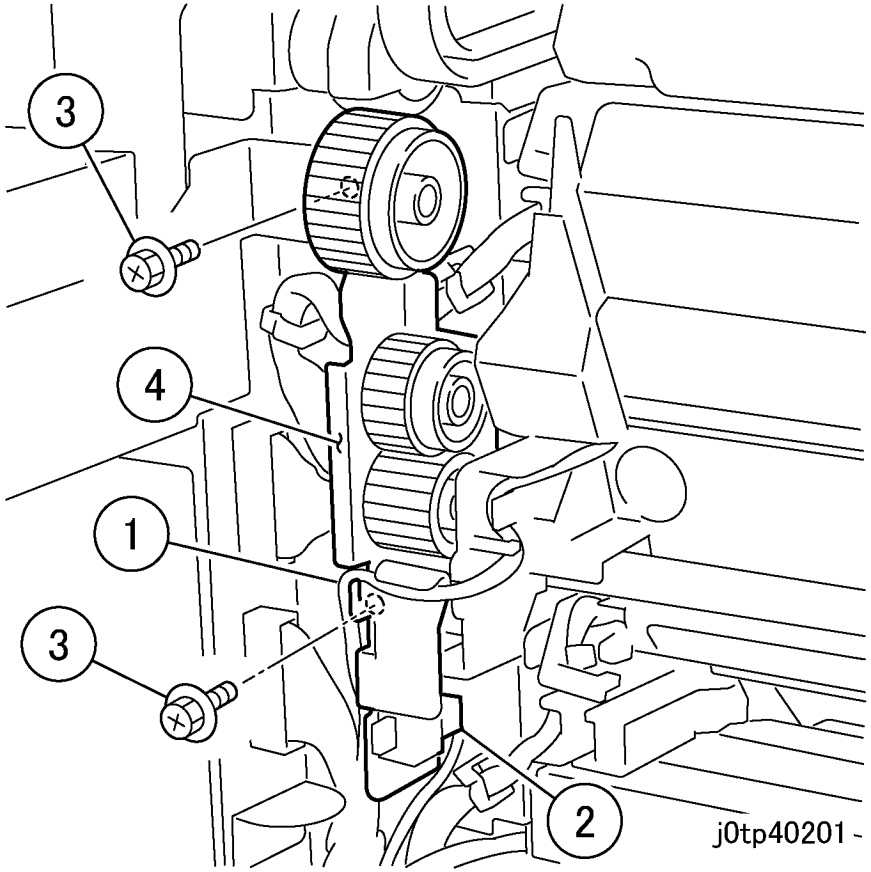


Figure 2 Removing the Gear Assembly (j0tp40201)

7. Remove the Feeder 2 Assembly. (Figure 3)
    1. Disconnect P/J602.
    2. Release the Wire Harness from the clamp.
    3. Remove the screws (x2).
    4. Move the white guide to rear, then remove the Feeder 2 Assembly.

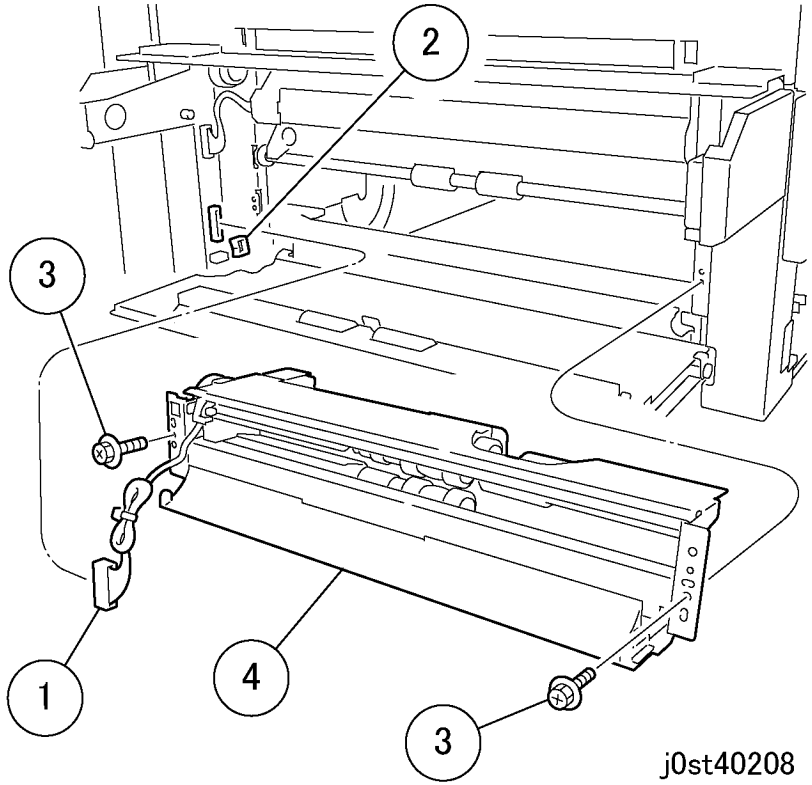


Figure 3 Removing the Feeder 2 Assembly (j0st40208)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.3.1 Tray 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. Tray 2 Feed/Nudger/Retard Roll replacement is the same as for Tray 1.*

NOTE: *When replacing the Tray 1 Feed/Nudger/Retard Roll, enter Diag. mode and clear the counter for the Tray 1 Feed counter (sheets). 741/511 (For Tray 2 Feed/Nudger/Retard Roll: 741/512])*

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

NOTE: *The Feed/Nudger/Retard Roll must be replaced at the same time.*

1. Remove Tray 1.
2. Slide the guide to the front. (Figure 1)
   1. Slide the guide.

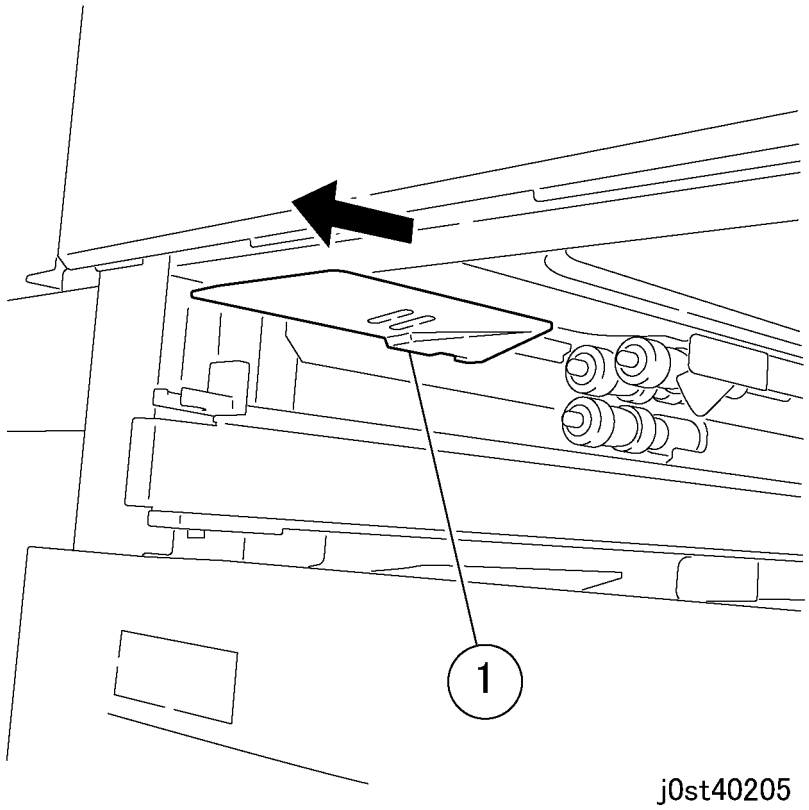


Figure 1 Sliding the guide to the front (j0st40205)

3. Remove the Feed/Nudger/Retard Roll. (Figure 2)
    1. Remove the Feed/Nudger/Retard Roll.

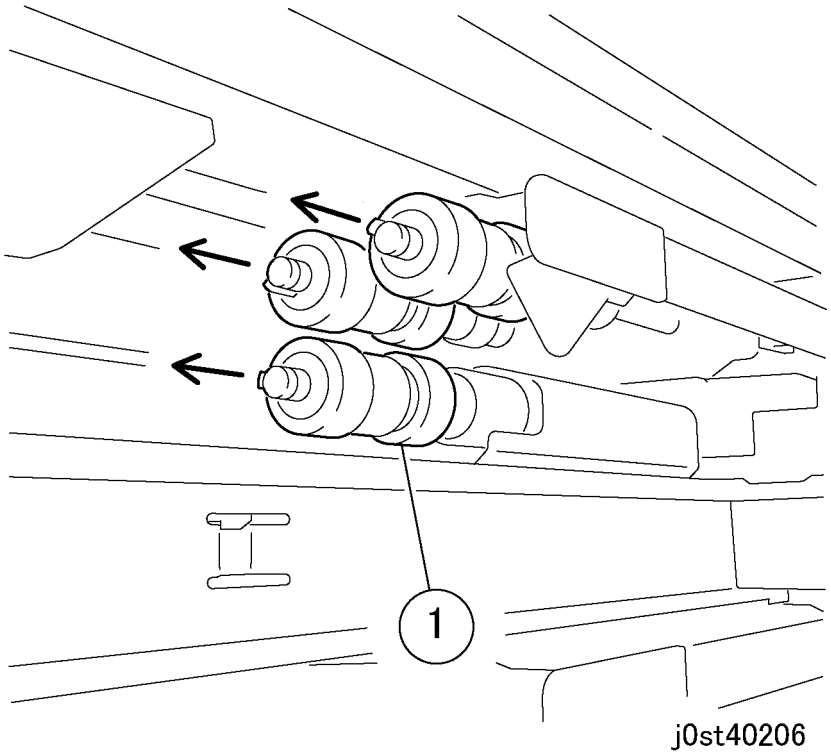


Figure 2 Removing the Feed/Nudger/Retard Roll (j0st40206)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.4.1 Registration Unit

Parts List on PL 2.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the L/H Upper Cover Unit. (REP 2.6.2)

2. Free the Registration Assembly. (Figure 1)

   NOTE: *The connectors are connected on the inner side of the Registration Assembly.*

   1. Remove the screws (x2).
   2. Slide the Registration Assembly to the rear.
   3. Slightly lift up the Registration Assembly and remove it.

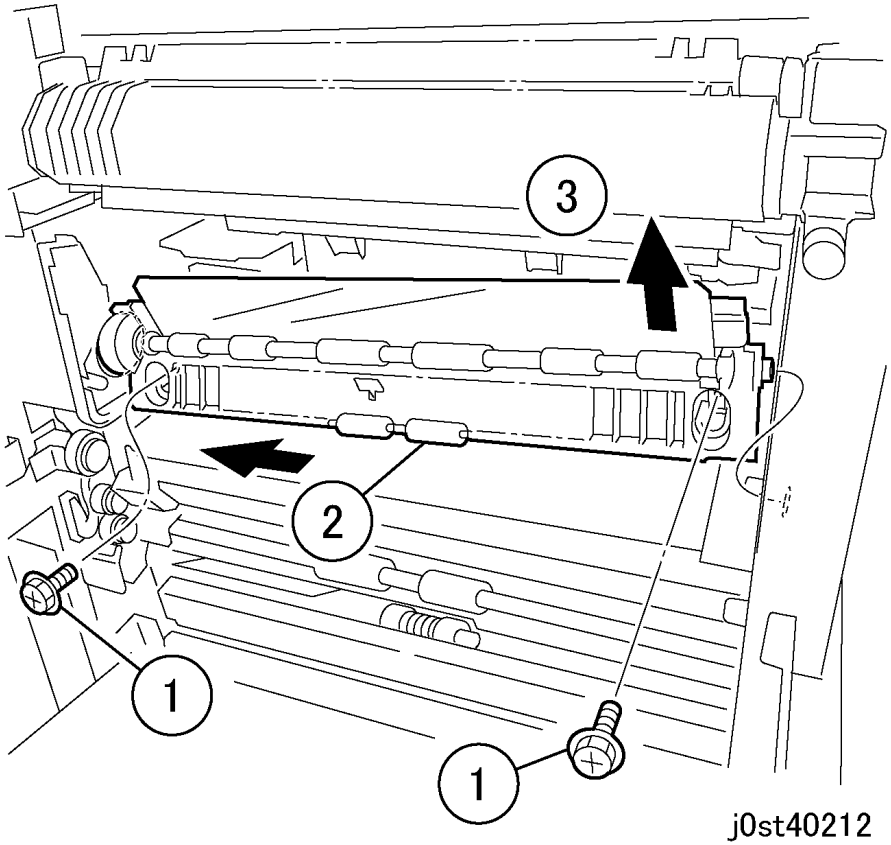


Figure 1 Setting free the Registration Assembly (j0st40212)

3. Remove the Registration Assembly. (Figure 2)
   1. Turn over the Registration Assembly.
   2. Disconnect P/J215.
   3. Disconnect P/J104.
   4. Release the Wire Harness from the clamp.
   5. Remove the Registration Assembly.

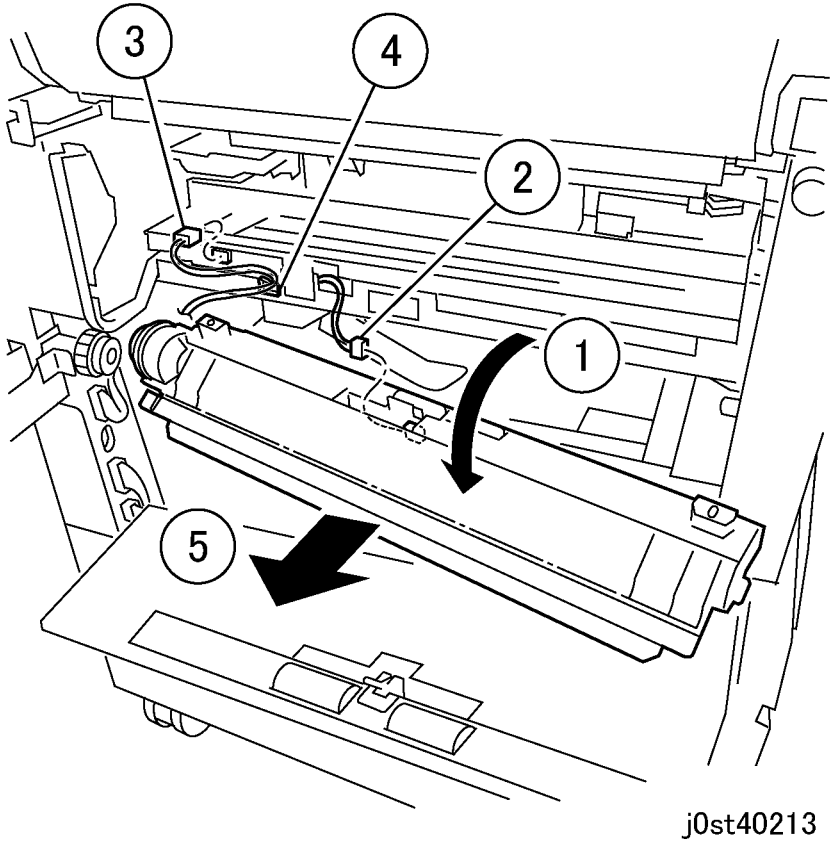


Figure 2 Removing the Registration Assembly (j0st40213)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.5.1 Takeaway Roll

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the MPT Assembly. (REP 7.1.1)
2. Open the L/H Lower Cover.
3. [23/28 CPM Model]
   - Perform steps 4, 5 and 8.

   [33 CPM Model]
   - Perform steps 6, 7 and 8.
4. Remove the Gear Assembly. (Figure 1)
   1. Remove the screws (x3).
   2. Remove the Gear Assembly.
   3. Disconnect the connector.

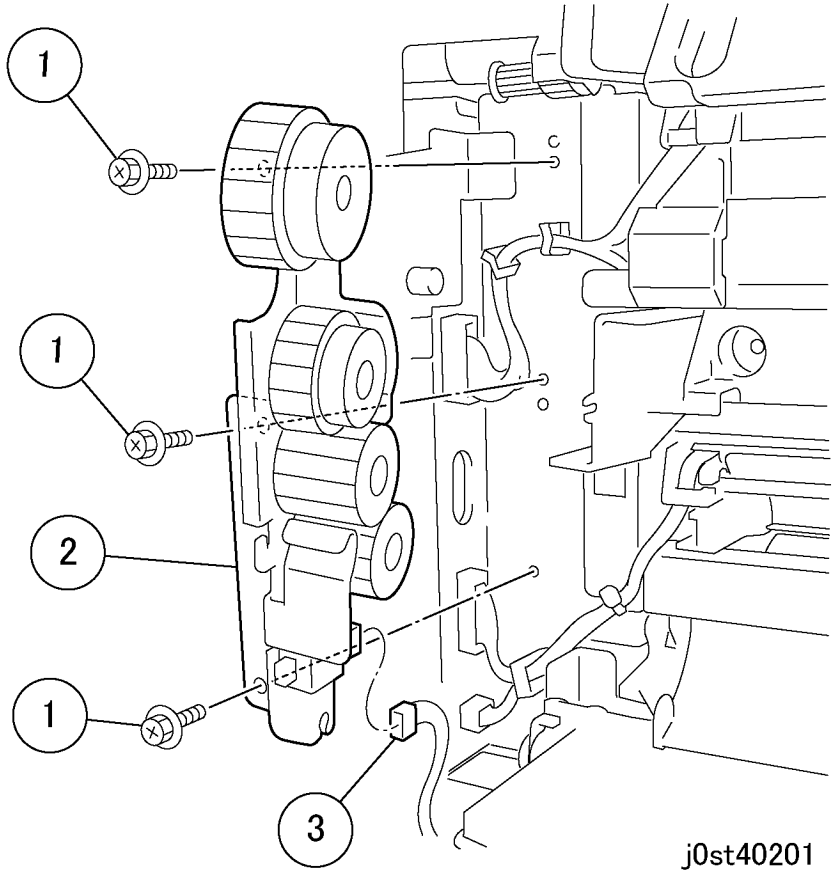


Figure 1 Removing the Gear Assembly (j0st40201)

5. Remove the chute. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the chute.

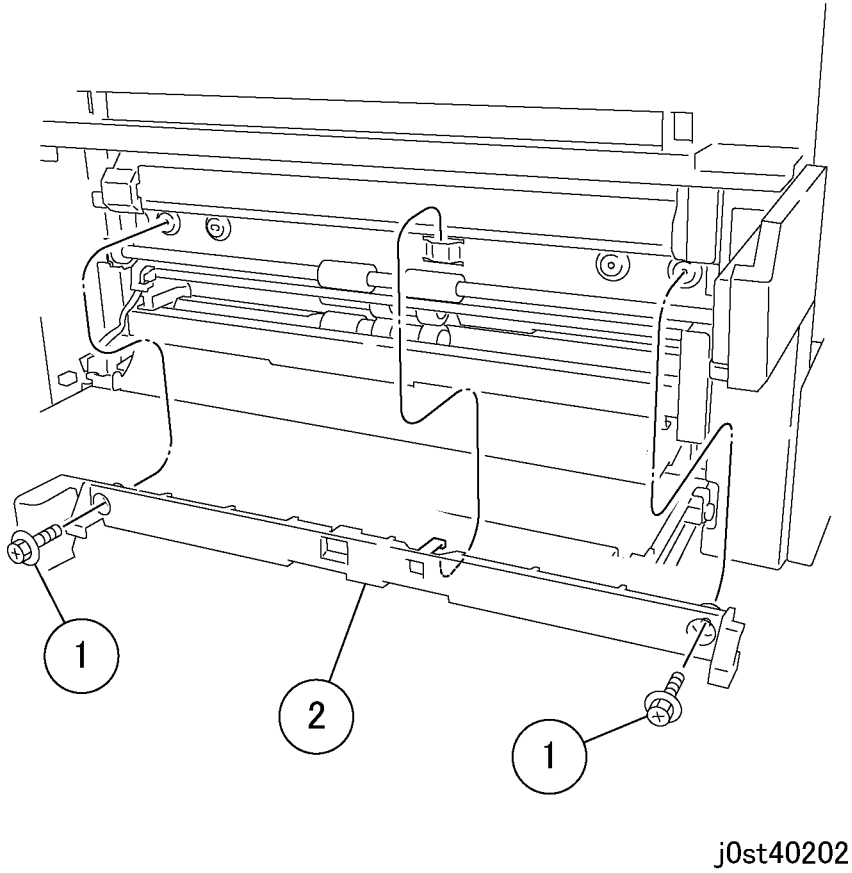


Figure 2 Removing the chute (j0st40202)

6. Remove the Gear Assembly. (Figure 3)
    1. Release the Wire Harness.
    2. Disconnect the connector.
    3. Remove the screws (x2).
    4. Remove the Gear Assembly.

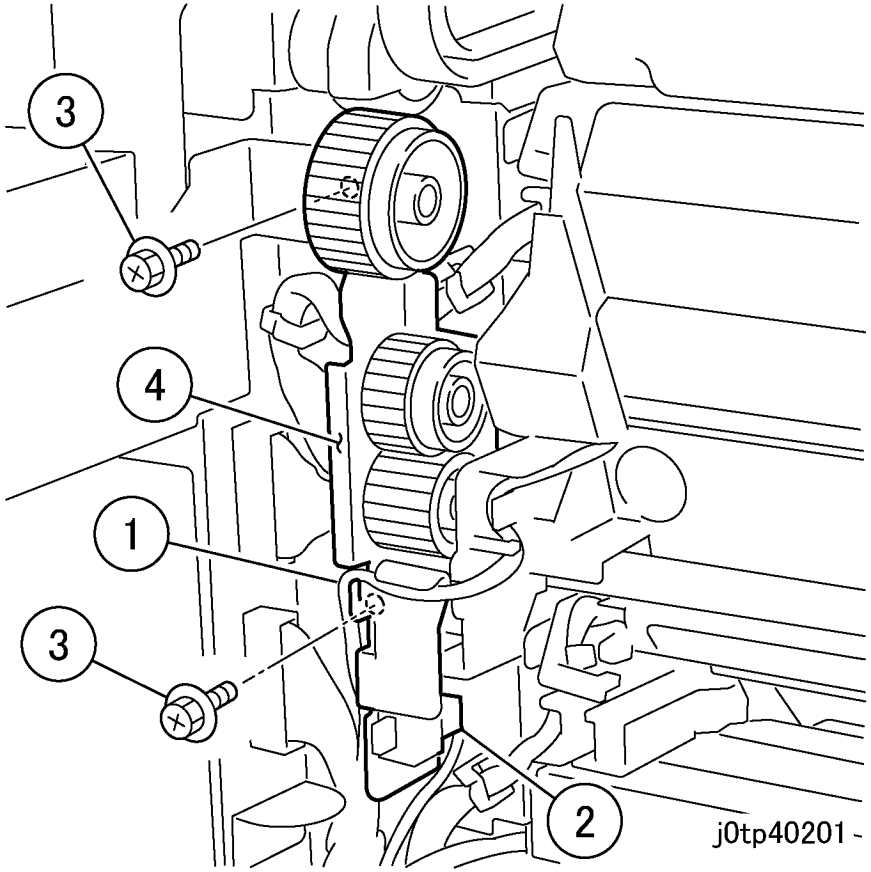


Figure 3 Removing the Gear Assembly (j0tp40201)

7. Remove the Chute. (Figure 4)
    1. Release the Wire Harness from the clamp.
    2. Disconnect the connector.
    3. Remove the screws (x2).
    4. Remove the Chute.

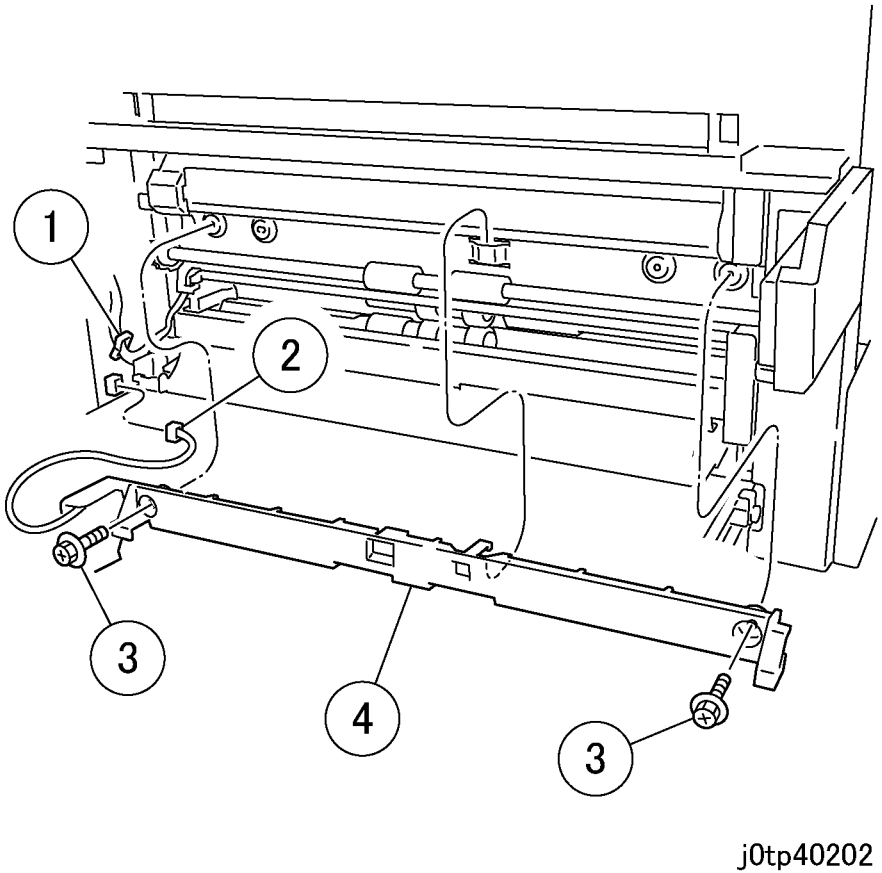


Figure 4 Removing the chute (j0tp40202)

8. Remove the Takeaway Roll. (Figure 5)
    1. Remove the KL-Clip.
    2. Slide out the Takeaway Roll.

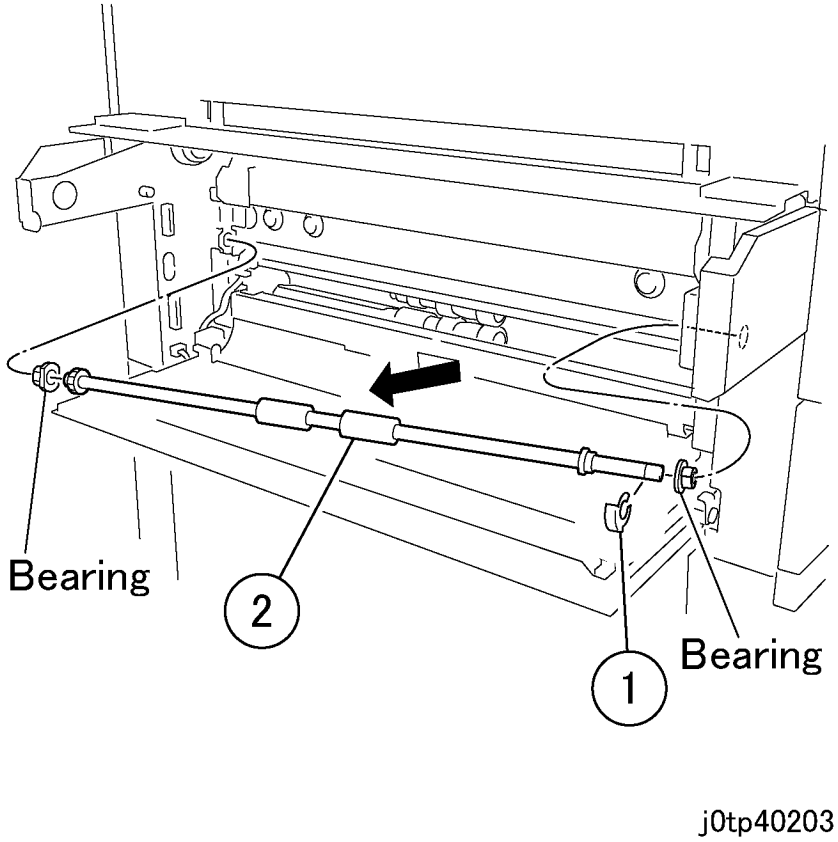


Figure 5 Removing the Takeaway Roll (j0tp40203)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 2.6.1 BTR 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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the L/H Upper Cover Assembly. (PL 2.6)
2. Remove the BTR Roll Assembly. (Figure 1)
   1. Press Tabs to release and remove the BTR Roll Assembly.

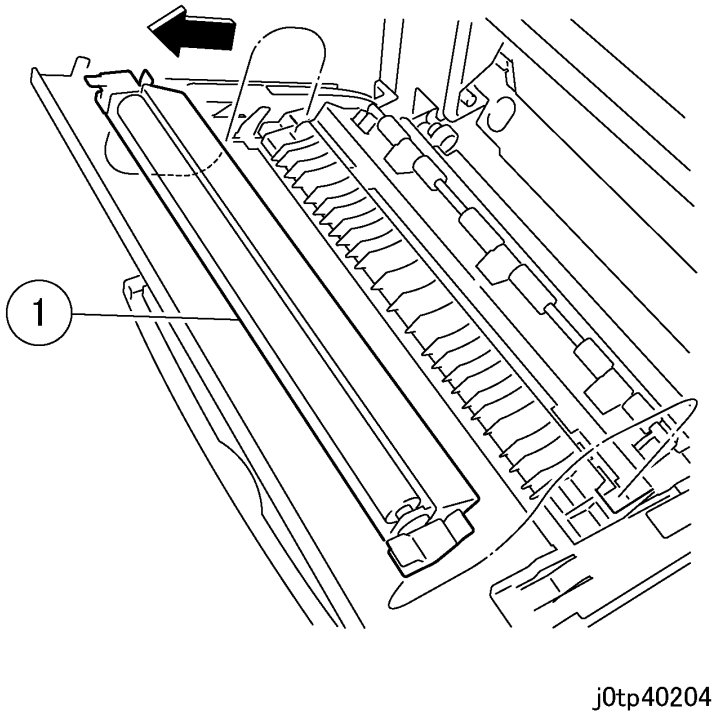


Figure 1 Removing the BTR Roll Assembly (j0tp40204)

3. Remove the BTR Roll. (Figure 2)

   NOTE: *Do not remove the cover at the front.*

   1. Remove the cover at the rear.
   2. Remove the BTR Roll.

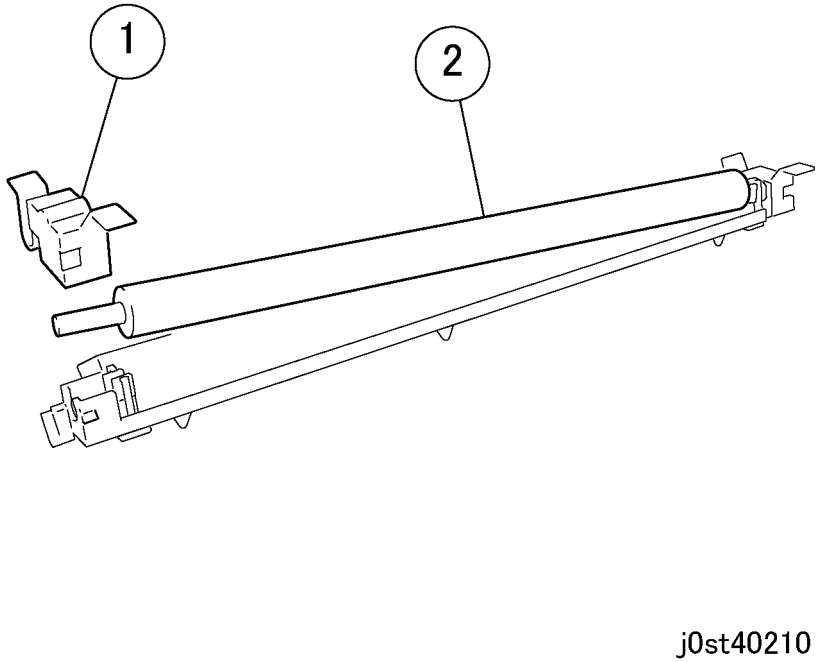


Figure 2 Removing the BTR Roll (j0st40210)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode.
   Clear the counter.
   Chain Link : 954-808

REP 2.6.2 L/H Upper Cover Unit

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the L/H Upper Cover.
2. Remove the screw while holding the L/H Upper Cover. (Figure 1)
   1. Remove the screw.

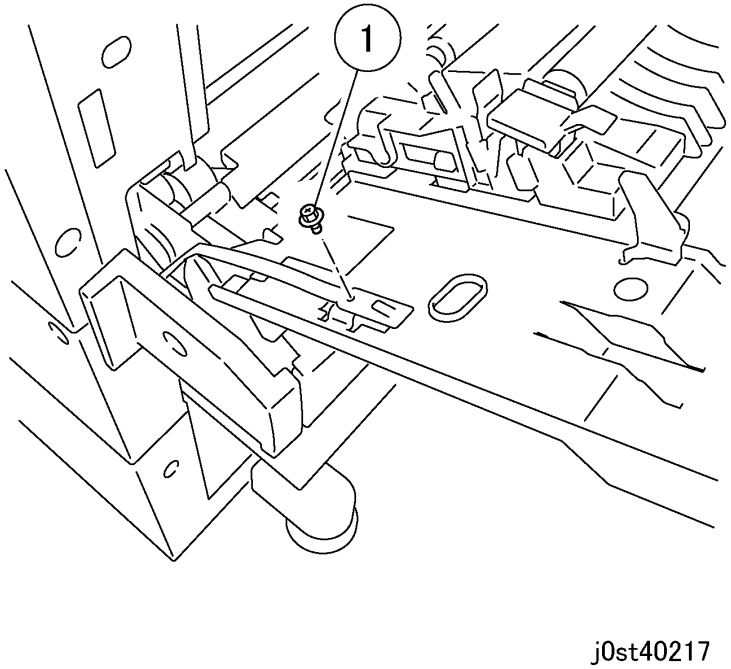


Figure 1 Removing the screw (j0st40217)

3. Remove the L/H Upper Cover Unit. (Figure 2)
   1. Open the L/H Upper Cover Unit until it becomes horizontal.
   2. Lift up the unit and remove it.

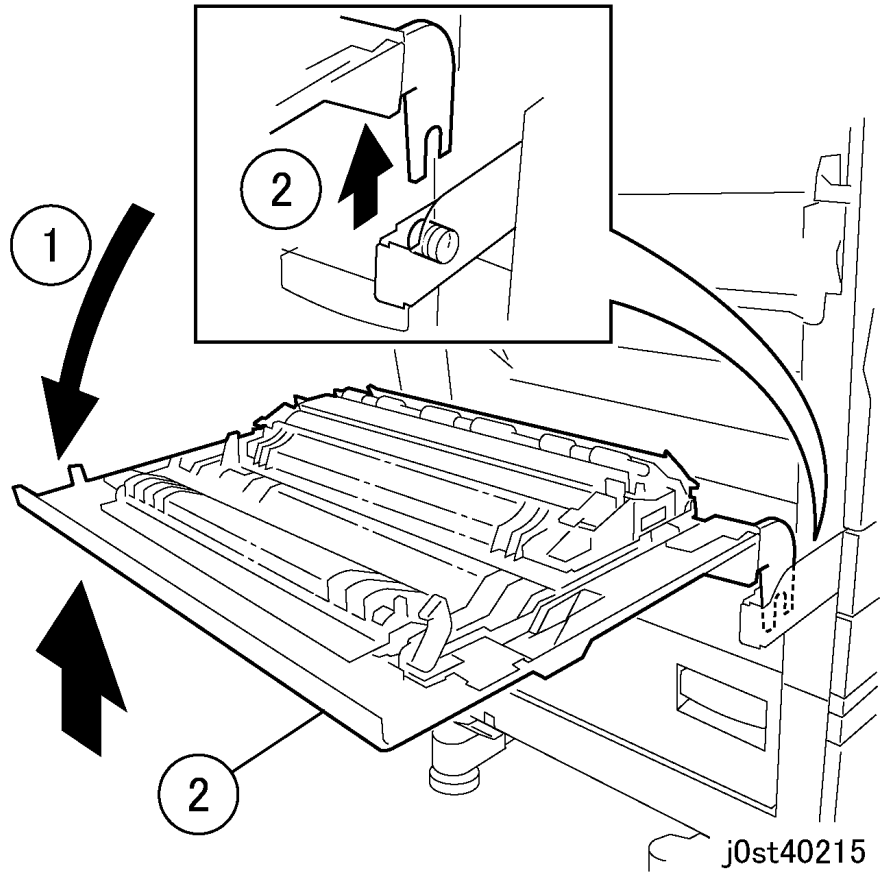


Figure 2 Removing the L/H Upper Cover Unit (j0st40215)

Replacement

1. To install, carry out the removal steps in reverse order.

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the following parts:
    1. Xero/Developer Cartridge (REP 4.1.1)
    2. Toner Cartridge (REP 4.1.2)
    3. Top Cover Assembly (REP 10.1.1)
2. Remove the Front Cover and the Inner Cover. (Figure 1)
    1. Remove the screws (x3).
    2. Remove the Inner Cover.

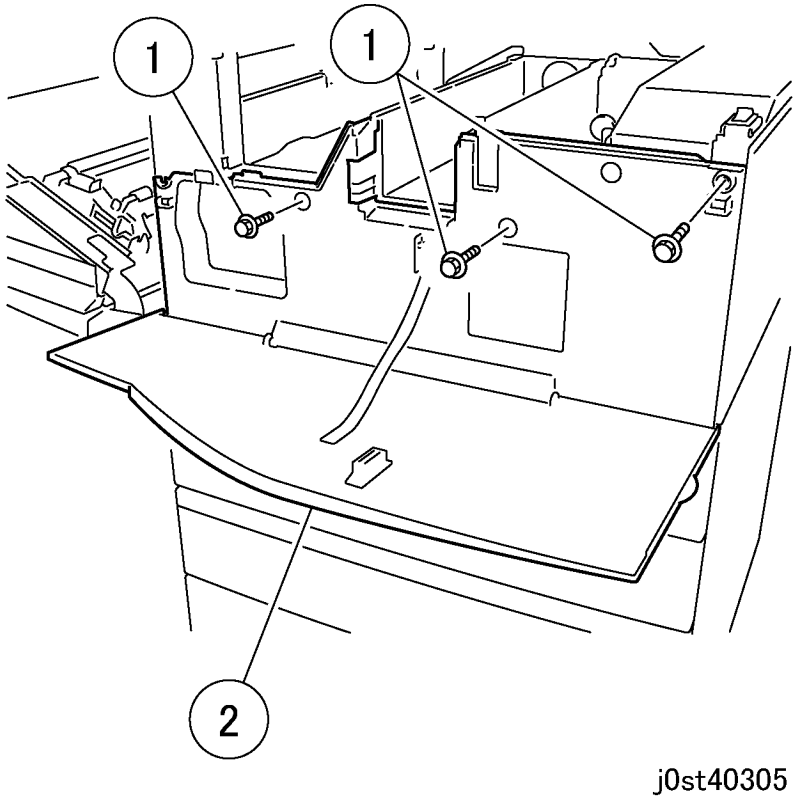


Figure 1 Removing the Inner Cover (j0st40305)

3. Disconnect the connector. (Figure 2)
    1. Disconnect P/J127.
    2. Release the Wire Harness from the Wire Harness Guide.
    3. Release the Wire Harness from the Wire Harness Guide.

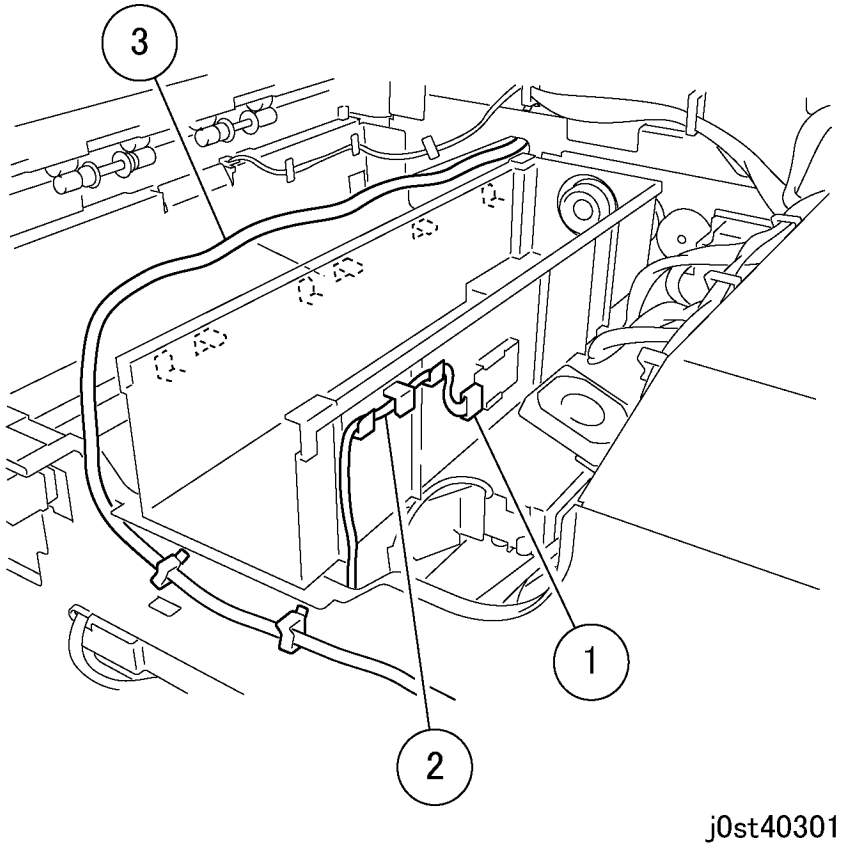


Figure 2 Disconnecting the connector (j0st40301)

4. Remove the ROS Shade assembly.
    a. Remove the screw from the front of the shade.
    b. Press the shade rearward while lifting on the front to disengage the front.
    c. Disengage the rear and remove the shade.

5. Remove the Toner Box. (Figure 3)
    1. Loosen the screws (x2).
    2. Remove the screw on the hose.
    3. Remove the Toner Box.

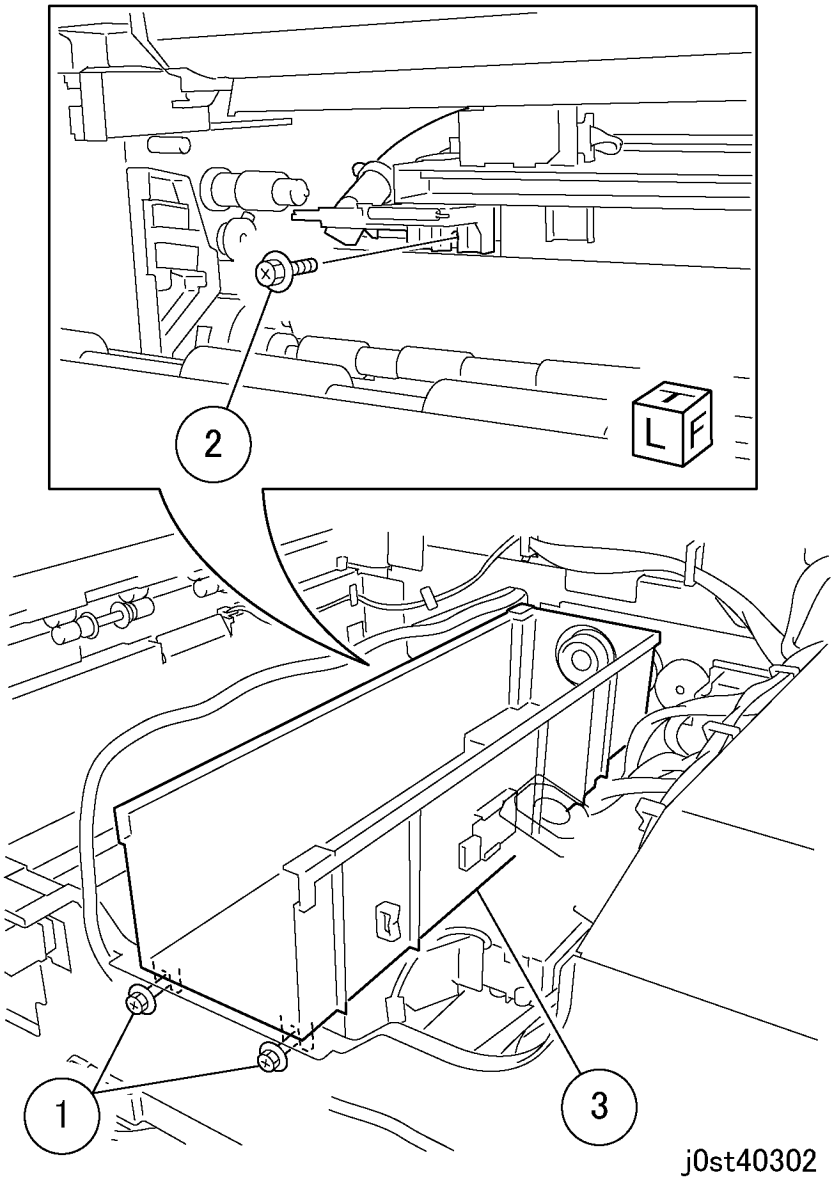


Figure 3 Removing the Toner Box (j0st40302)

6. Disconnect the ROS Unit connectors (x4). (Figure 4)
    1. Disconnect P/J170.
    2. Disconnect P/J160.
    3. Disconnect P/J140.
    4. Disconnect P/J620.
    5. Release the Wire Harness from the clamp.

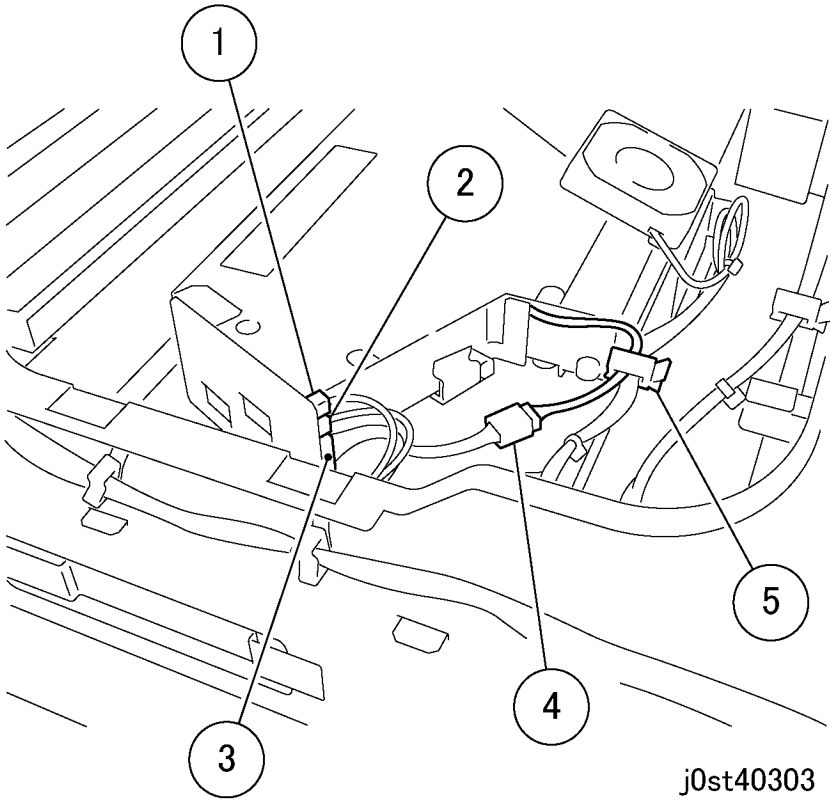


Figure 4 Disconnecting the ROS Unit connectors (x4) (j0st40303)

CAUTION

Do not touch the ROS Unit window when holding it up.

7. Remove the ROS Unit. (Figure 5)
    1. Remove the screws (x5).
    2. Remove the ROS Unit.

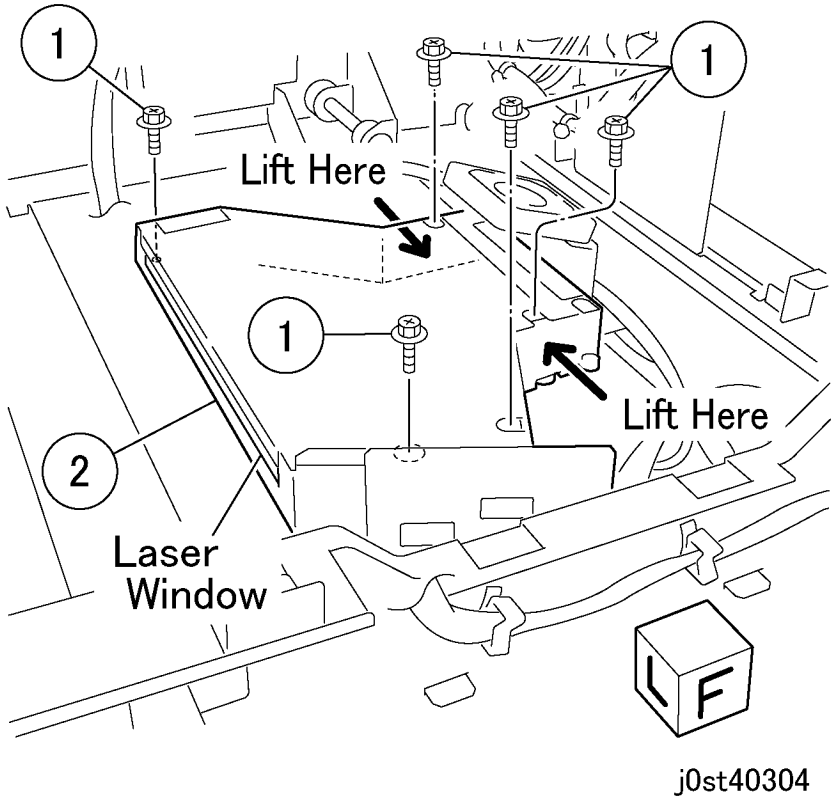


Figure 5 Removing the ROS Unit (j0st40304)

Replacement

CAUTION

When connecting the P/J127 of the Toner Crum PWB, be careful not to press too hard such that the PWB is shifted.

***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. To install, carry out the removal steps in reverse order.

REP 4.1.1 Xero/Developer Cartridge

Parts List on PL 4.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the L/H Upper Cover.
2. Open the Front Cover.
3. Remove the Xero/Developer Cartridge. (Figure 1)
   1. Remove the Xero/Developer Cartridge.

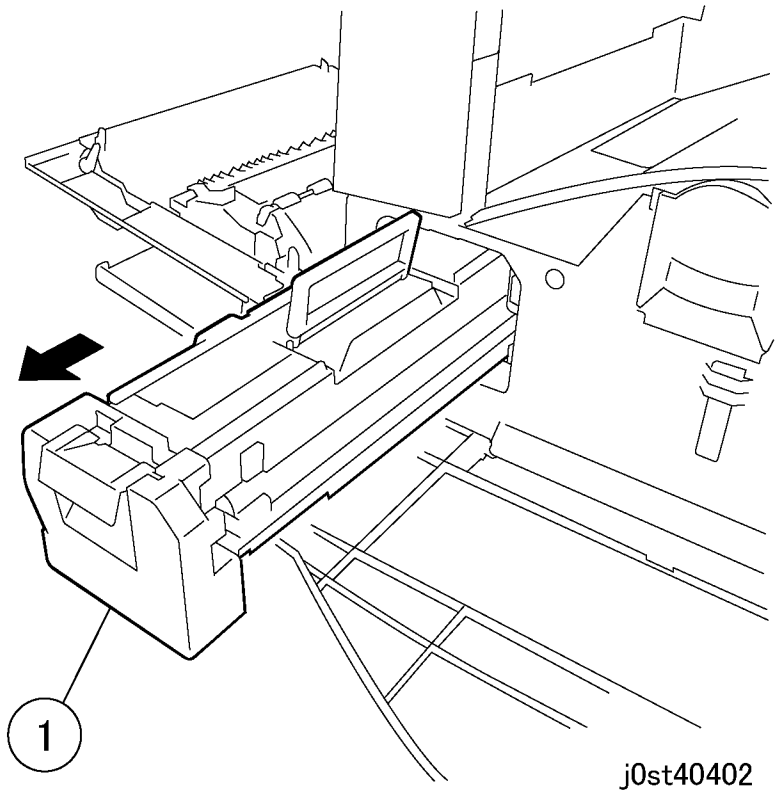


Figure 1 Removing the Xero/Developer Cartridge (j0st40402)

Replacement

NOTE: *Push in the handle of the Xero/Developer Cartridge until the handle latches securely.*

1. To install, carry out the removal steps in reverse order.

REP 4.1.2 Toner Cartridge

Parts List on PL 4.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the Front Cover.
2. Remove the Toner Cartridge. (Figure 1)
   1. Remove the Toner Cartridge.

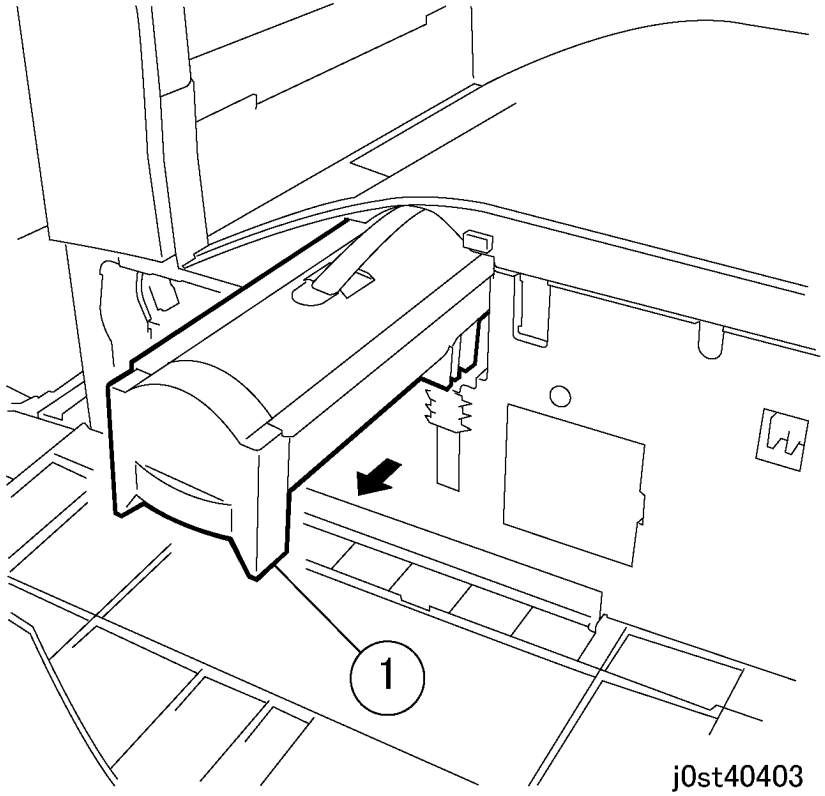


Figure 1 Removing the Toner Cartridge (j0st40403)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 4.2.1 Dispense Motor

Parts List on PL 4.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the following parts:
   - Xero/Developer Cartridge (REP 4.1.1)
   - Toner Cartridge (REP 4.1.2)
   - Top Cover Assembly (REP 10.1.1)
2. Remove the Front Cover and the Inner Cover. (Figure 1)
   1. Remove the screws (x3).
   2. Remove the Inner Cover.

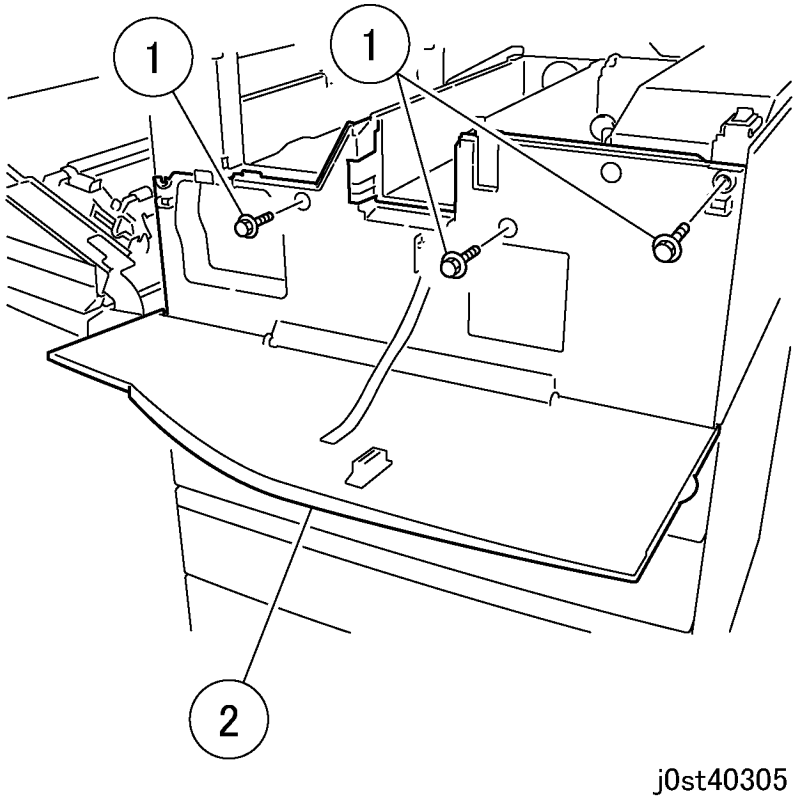


Figure 1 Removing the Inner Cover (j0st40305)

3. Disconnect the connector. (Figure 2)
    1. Disconnect the connector.
    2. Release the Wire Harness from the Wire Harness Guide.
    3. Release the Wire Harness from the Wire Harness Guide.

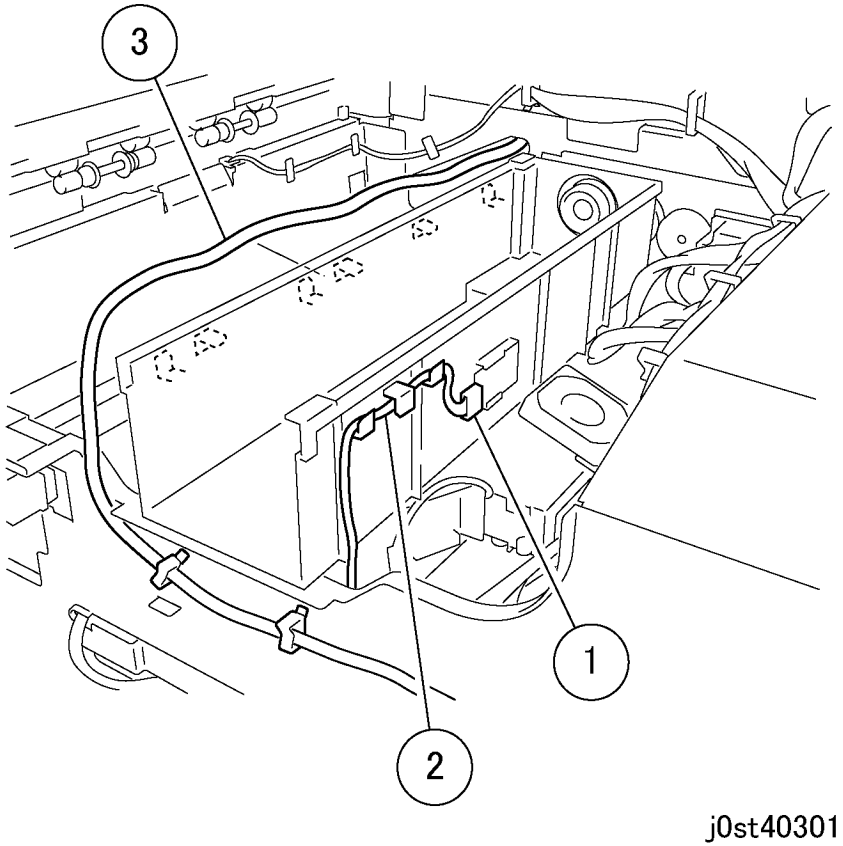


Figure 2 Disconnecting the connector (j0st40301)

4. Remove the Toner Box. (Figure 3)
    1. Loosen the screws (x2).
    2. Remove the screw on the hose.
    3. Remove the Toner Box.

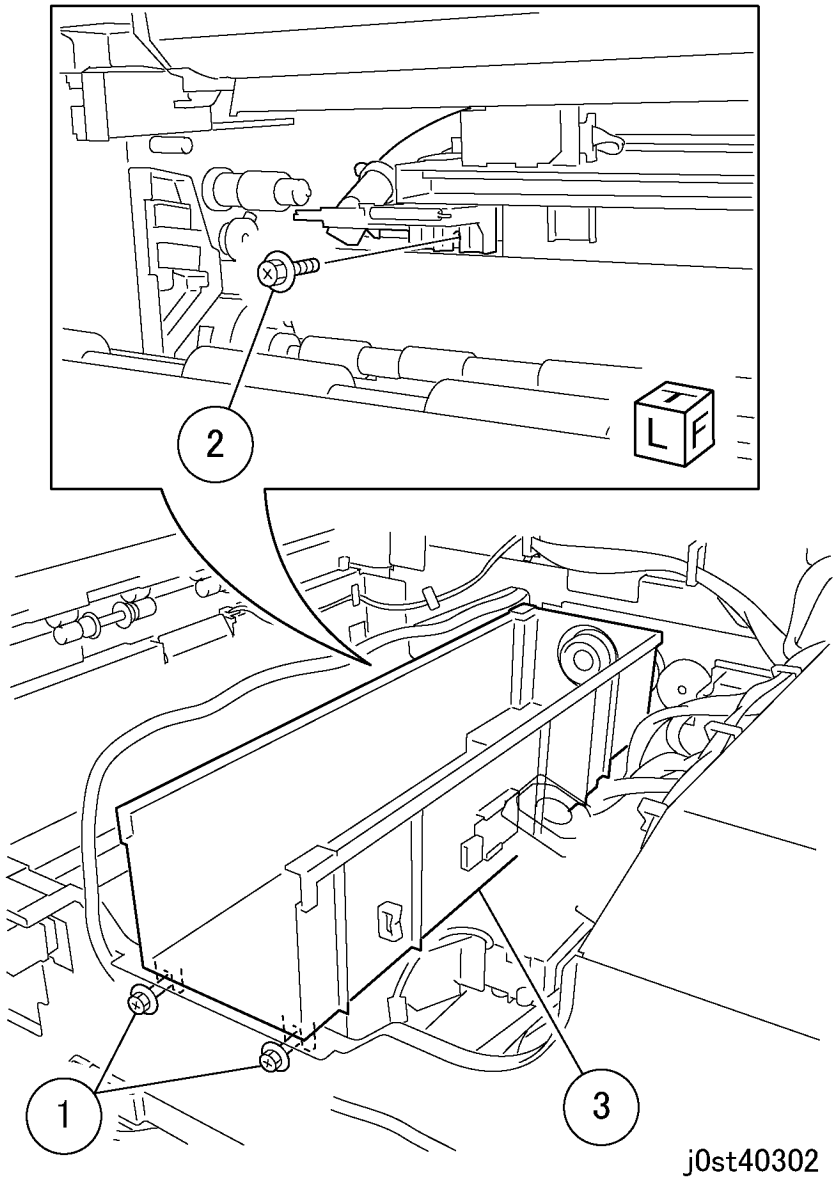


Figure 3 Removing the Toner Box (j0st40302)

5. Remove the Dispense Motor. (Figure 4)
    1. Disconnect the connector.
    2. Remove the screws (x3).
    3. Remove the Dispense Motor.

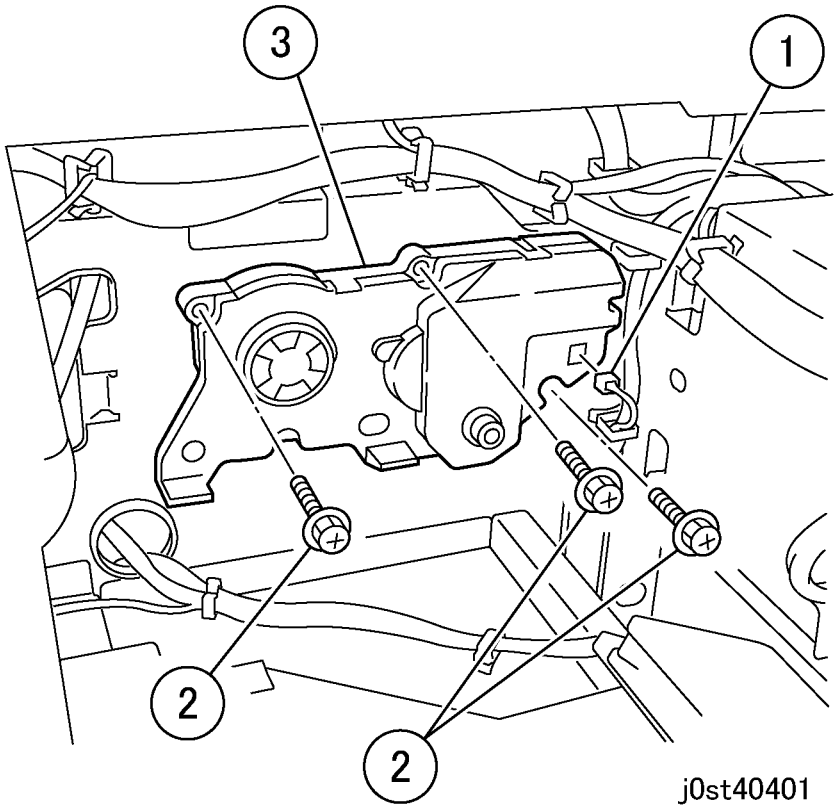


Figure 4 Removing the Dispense Motor (j0st40401)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 5.1.1 Fuser Unit

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

CAUTION

Do not start servicing until the Fuser has cooled down.

1. Open the L/H Upper Cover Assembly. (PL 2.6)
2. Remove the Fuser Unit. (Figure 1)
   1. Free the knobs (x2) by turning them.
   2. Hold the Fuser by the handles (x2).

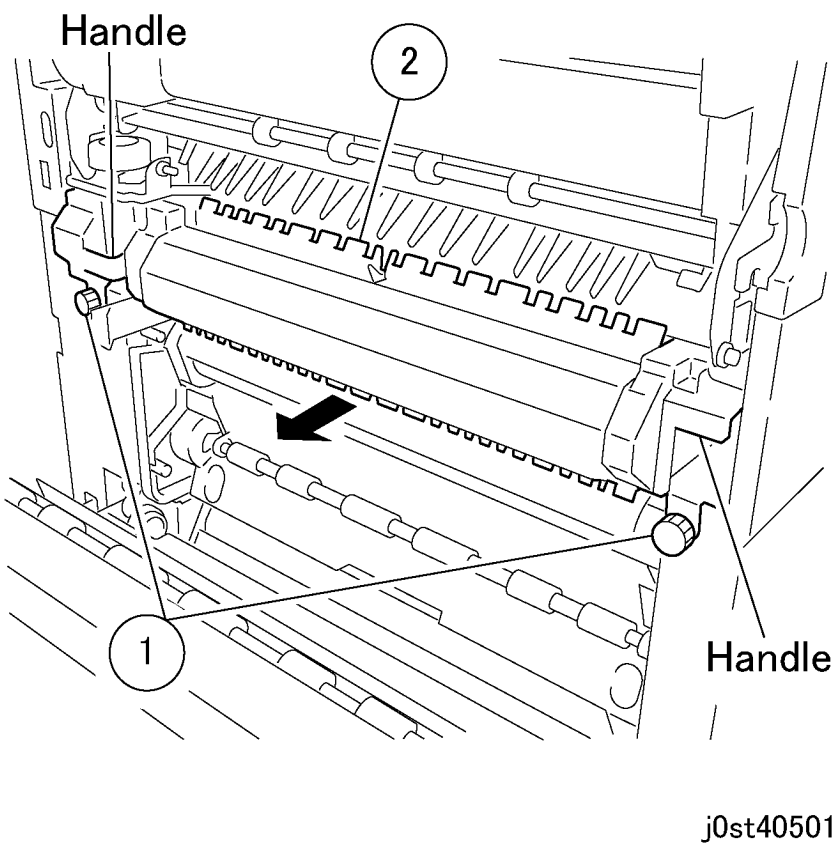


Figure 1 Removing the Fuser Unit (j0st40501)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode.
   Clear the counter.
   Chain Link : 954-807

REP 6.1.1 Exit2 + OCT2

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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.

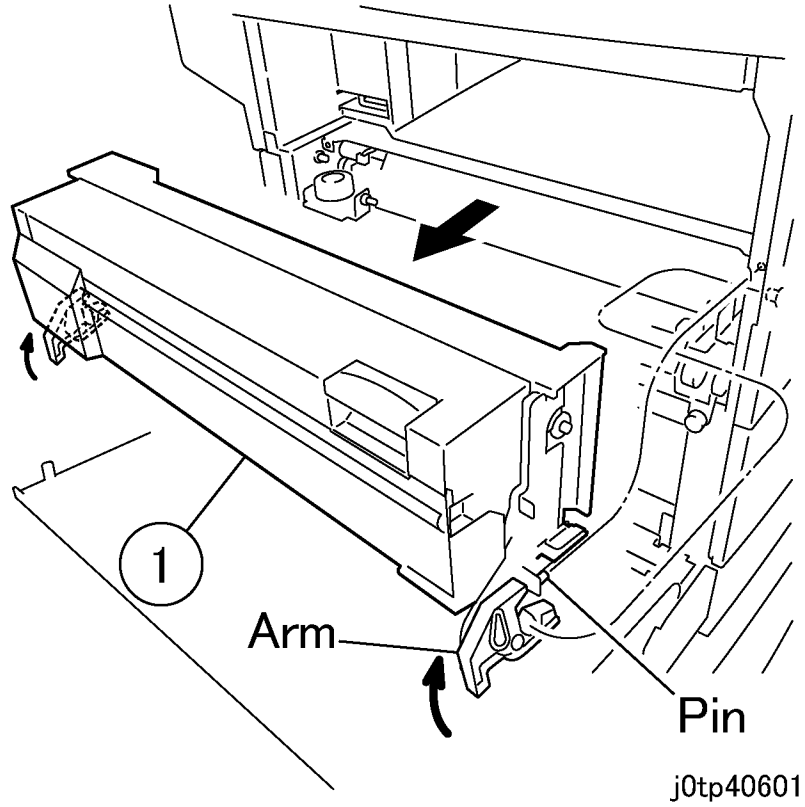


Figure 1 Removing the Exit2+OCT2 (j0tp40601)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.1.1 MPT Assembly

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

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the MPT Rear Cover. (Figure 1)
   1. Remove the screw.
   2. Remove the MPT Rear Cover.

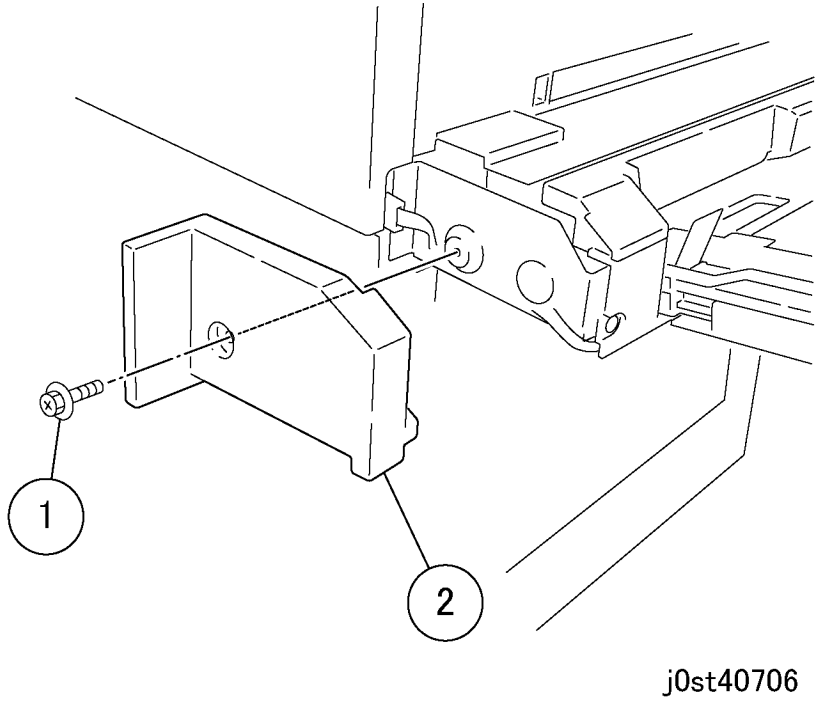


Figure 1 Removing the MPT Rear Cover (j0st40706)

2. Disconnect the connector. (Figure 2)
    1. Release the Wire Harness from the clamp.
    2. Release the Wire Harness from the clamp. (33CPM Model)
    3. Disconnect P/J605.

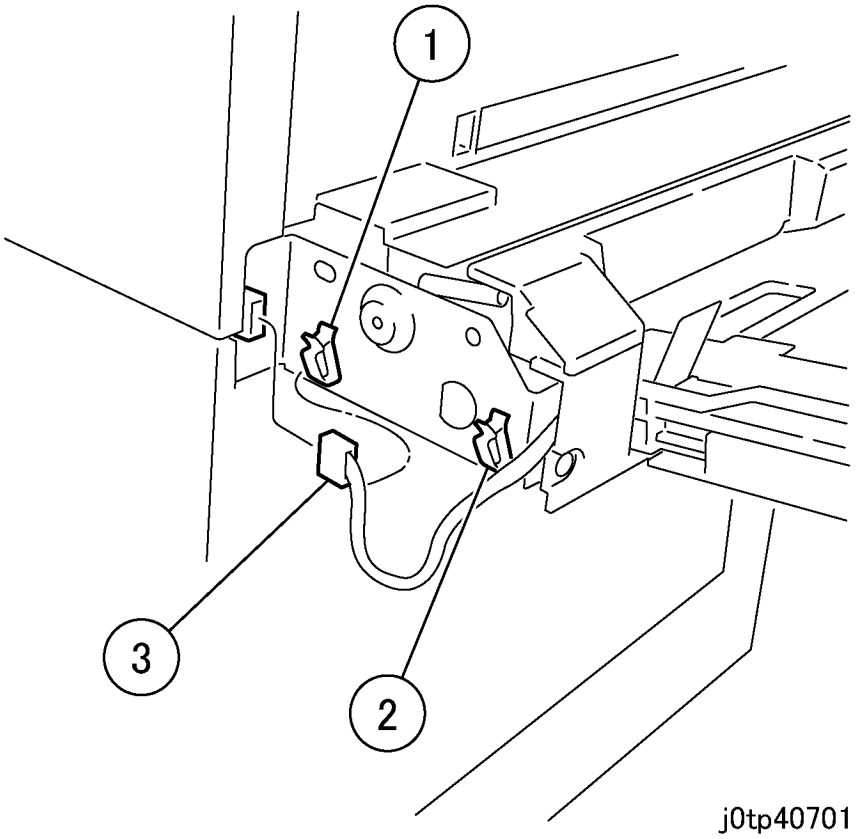


Figure 2 Disconnecting the connector (j0tp40701)

3. Remove the MPT Assembly. (Figure 3)
    1. Remove the screws (x2).
    2. Remove the MPT Assembly.

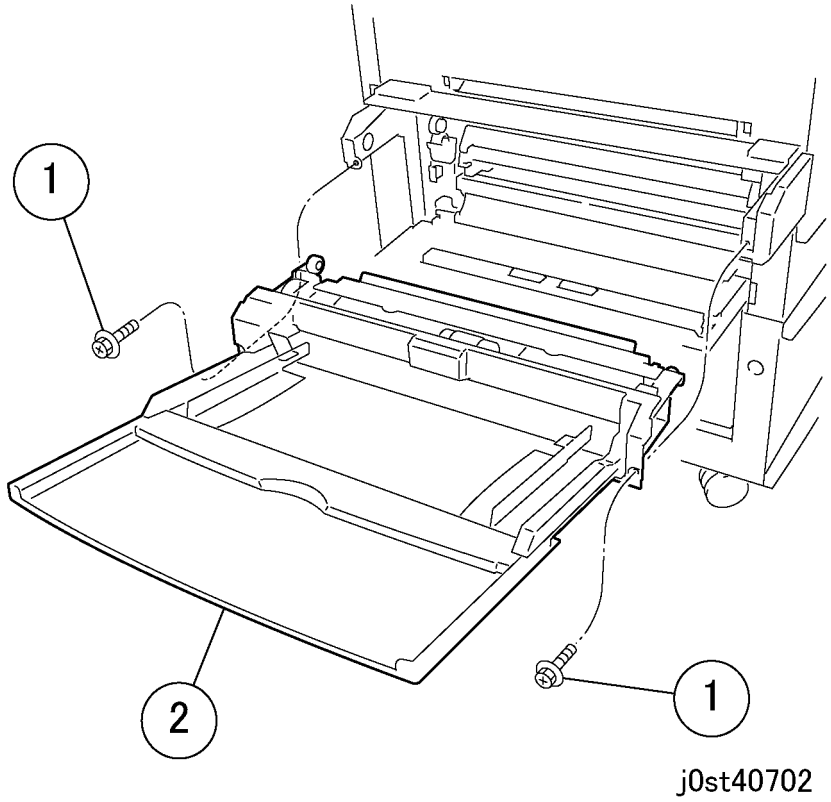


Figure 3 Removing the MPT Assembly (j0st40702)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.2.1 MPT Feed Roll/Retard Pad

Parts List on PL 7.2

Removal

NOTE: *When replacing the MPT Feed Roll/Retard Pad, enter the Diag. mode and clear the counter for MPT Feed. 741/516]*

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

NOTE: *The MPT Feed Roll and MPT Retard Pad must both be replaced at the same time.*

1. Remove the MPT Assembly. (REP 7.1.1)
2. Remove the plate. (Figure 1)
   1. Remove the screws (x2).
   2. Remove the plate.

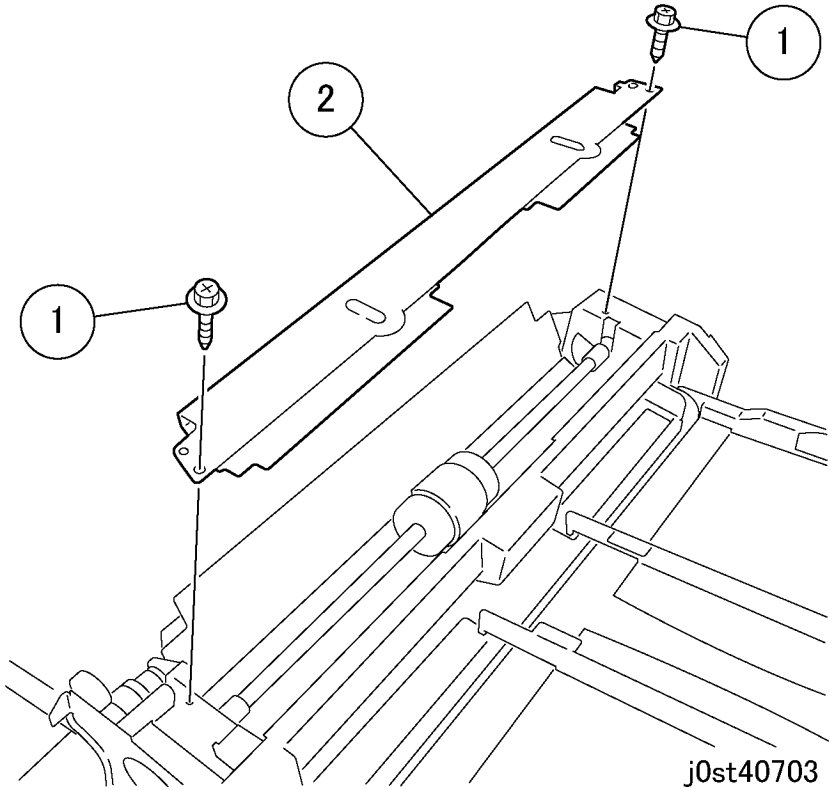


Figure 1 Removing the plate (j0st40703)

3. Remove the MPT 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 MPT Feed Roll to the front and remove it.

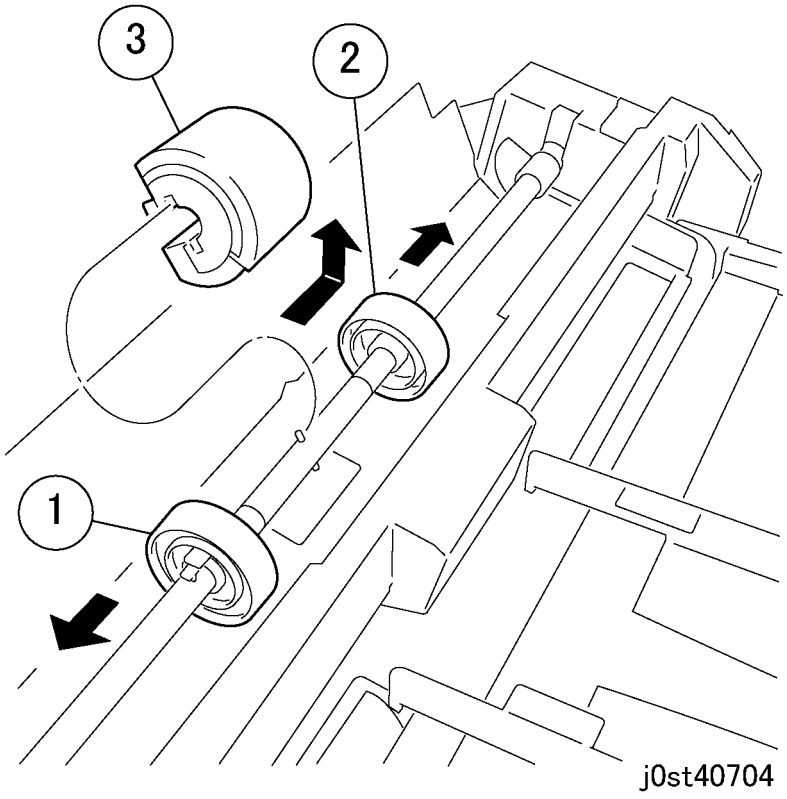


Figure 2 Removing the MPT Feed Roll (j0st40704)

4. Remove the MPT Retard Pad. (Figure 3)
    1. Remove the springs (x2).
    2. Remove the MPT Retard Pad.
    3. Pull out the shaft.

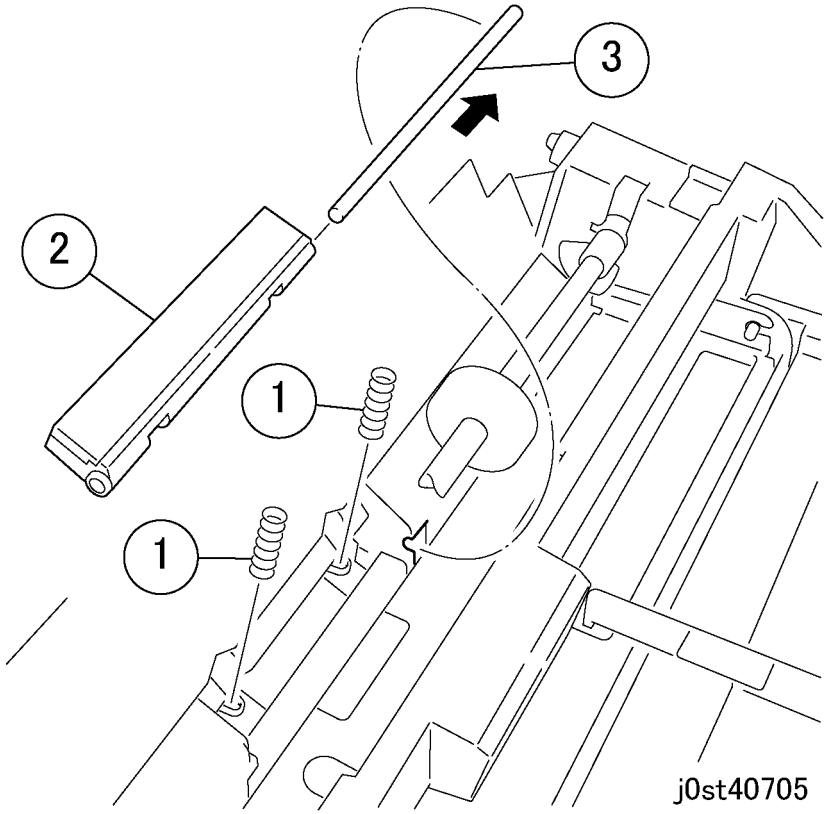


Figure 3 Removing the MPT Retard Pad (j0st40705)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.1.1 MCU PWB

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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

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.

1. Access the MCU PWB.
   a. Loosen screws (2) and remove ESS Cover Assembly (PL 9.2).
   b. Remove the screws (2) and remove the Rear Middle Cover (PL 10.2).
   c. Remove the screws (2) and remove the Rear Lower Cover (PL 10.2).
2. Remove MCU PWB (PL 9.1).
   a. Disconnect P/Js.
   b. Remove screws and remove MCU PWB.
3. If a new MCU PWB will be installed, go to step 4. If the MCU PWB will be reinstalled after service actions in other areas, reinstall the MCU PWB when appropriate to do so.

CAUTION

Pin breakage occurs if the EPROM is carelessly removed.

4. Remove EPROM from old MCU PWB and save for installation on new MCU PWB (Figure 1).

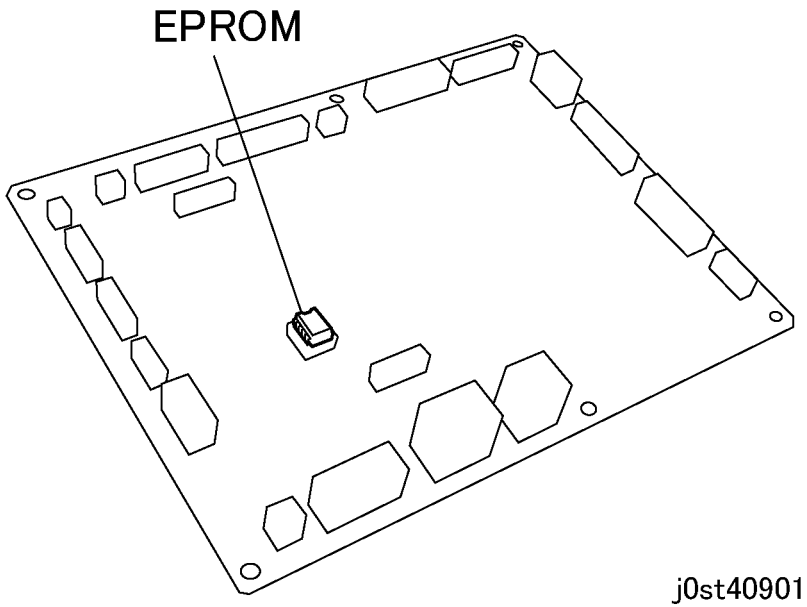


Figure 1 MCU PWB EPROM Location (j0st40901)

Replacement

This procedure installs a new MCU PWB. Refer to step 3 of Remove to install the same MCU PWB.

CAUTION

Pin breakage occurs if the EPROM is carelessly replaced.

1. Install the EPROM from the old MCU PWB on the new MCU PWB (Figure 2).

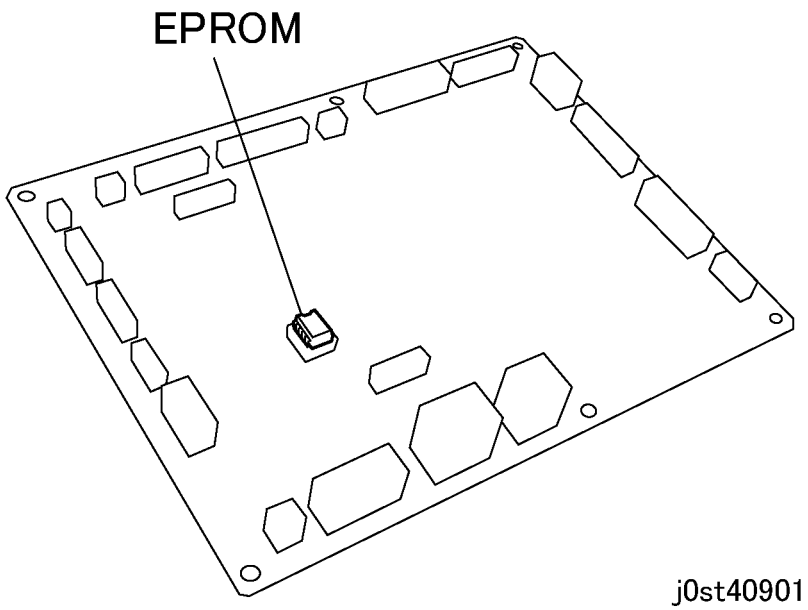


Figure 2 MCU PWB EPROM Location (j0st40901)

2. Install the MCU PWB and connect P/Js.
3. Install the rear covers.
   a. Install the Rear Lower Cover (PL 10.2).
   b. Install the Rear Middle Cover (PL 10.2).
   c. Install the ESS Cover Assembly (PL 9.2).
4. Switch on the machine power.
5. Verify that the serial numbers and billing data are the same.
   a. 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).
   b. Check serial number and billing data.
      i. Select **Adjustment/Others**.
      ii. Select **Machine ID/Billing Data**.
      iii. Check that the Serial Number and Billing Data for IOT, Sys1, and Sys2 are the same.

      If they are the same, return to Service Call Procedures in Section 1.

      If the data are different, perform GP 4 Serialization/Billing Maintenance.

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).*

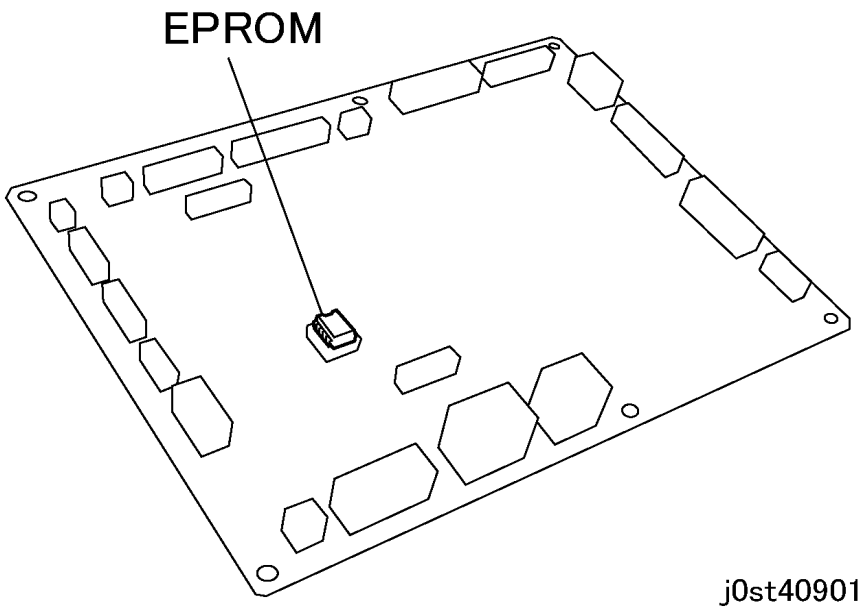


Figure 1 MCU PWB EPROM Location (j0st40901)

REP 9.2.1 ESS PWB

Parts List on PL 9.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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

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.

1. Remove the ESS PWB (PL 9.2).
   a. If present, remove Printer PWB (PL 9.2).
      i. Disconnect network connection.
      ii. Loosen thumbscrews and pullout Printer PWB to disconnect it from the ESS PWB.
   b. Loosen screws (2) and remove ESS Cover Assembly (PL 9.2).
   c. Disconnect P/Js form ESS PWB.
   d. Remove the screws and remove ESS PWB.
2. If a new ESS PWB will be installed, go to step 3. If the ESS PWB will be reinstalled after service actions in other areas, reinstall the ESS PWB when appropriate to do so.

CAUTION

Pin breakage occurs if the EPROM is carelessly removed.

3. Remove EPROM from ESS PWB and save for installation on new ESS PWB (Figure 1).

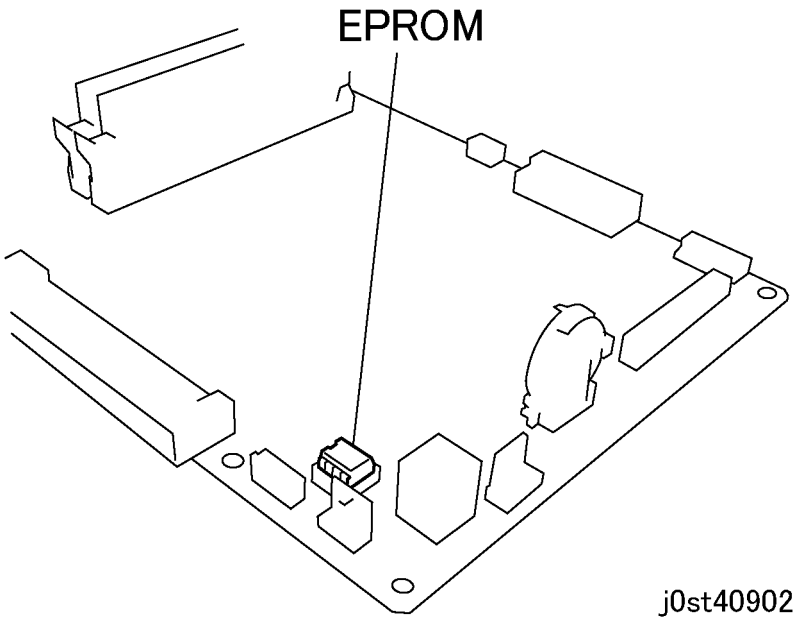


Figure 1 ESS PWB EPROM Location (j0st40902)

Replacement

This procedure installs a new ESS PWB. Refer to step P/J549 of Remove to install the same ESS PWB.

CAUTION

Pin breakage occurs if the EPROM is carelessly replaced.

1. Install the EPROM from the old ESS PWB on the new ESS PWB (Figure 1).

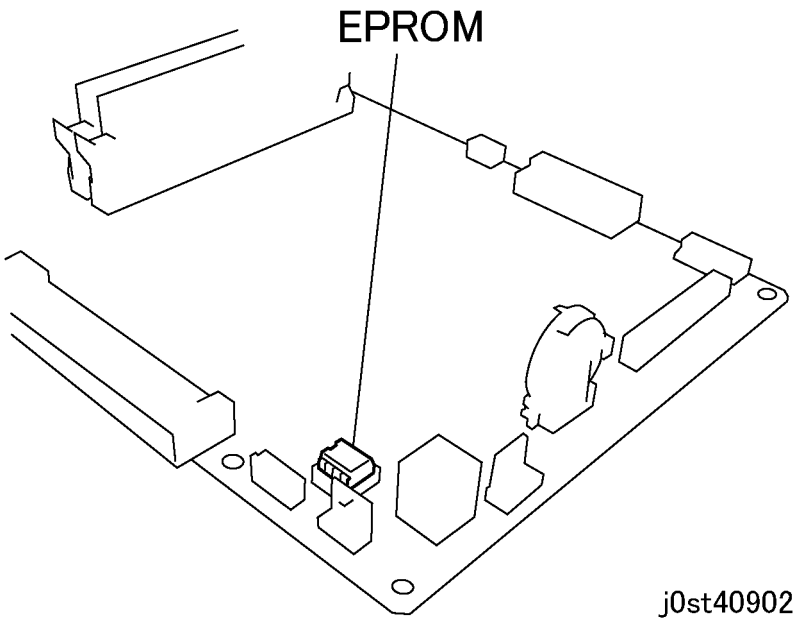


Figure 2 ESS PWB EPROM Location (j0st40902)

2. Install the ESS PWB and connect P/Js.
3. If present, install the Printer PWB.
   a. Install Printer PWB while connecting it to ESS PWB and tighten thumbscrews.
   b. Connect network connection.
4. Install the ESS Cover.
5. Perform GP 4 Serialization/Billing Maintenance.

REP 9.2.2 ESS 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 9.2.1 ESS PWB to remove or reinstall the ESS PWB EPROM (Figure 1).*

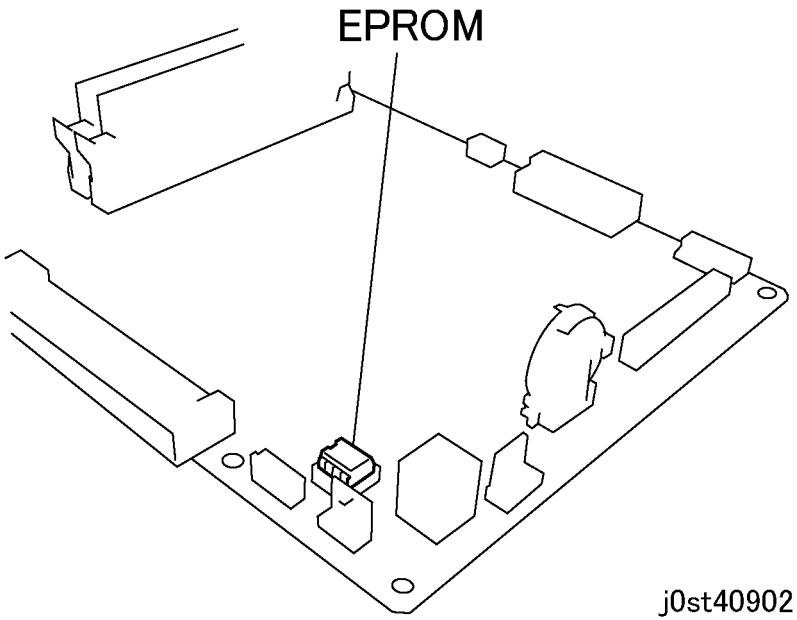


Figure 1 ESS PWB EPROM Location (j0st40902)

REP 10.1.1 Top Cover Assembly

Parts List on PL 10.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

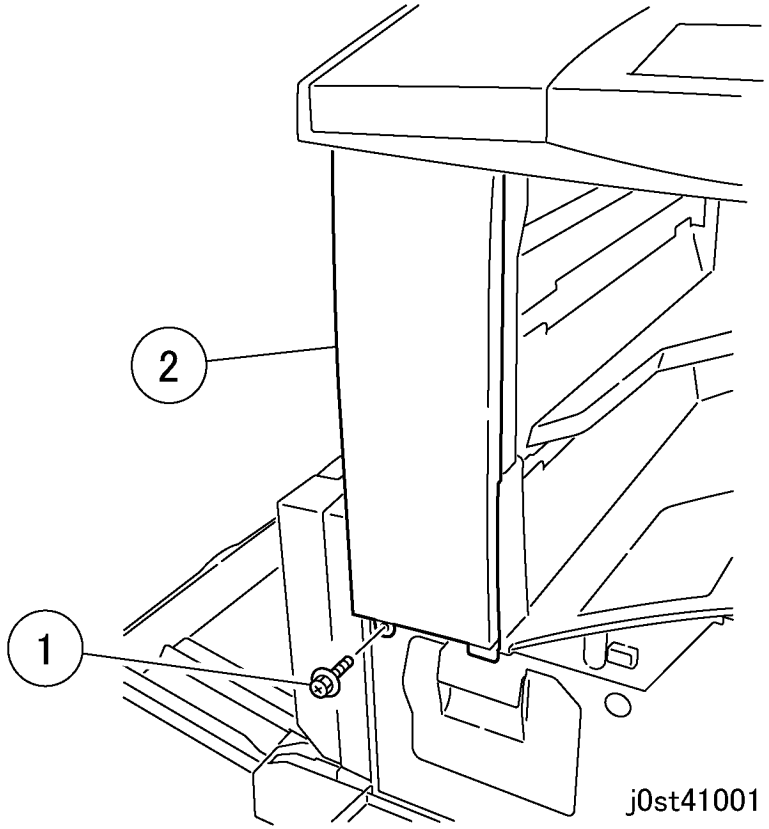


Figure 1 Removing the Front Left Cover (j0st41001)

3. Remove the Paper Weight Assembly. (Figure 2)
    1. Remove the Paper Weight Assembly.

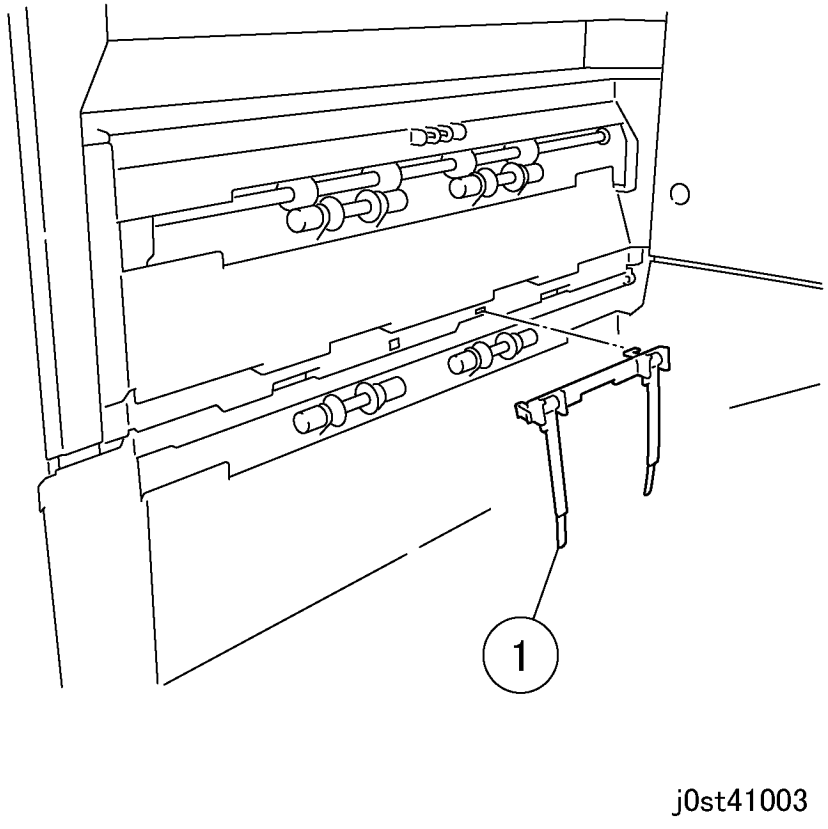


Figure 2 Removing the Paper Weight Assembly (j0st41003)

4. Remove the Top Cover Assembly. (Figure 3)
    1. Remove the screws (x2).
    2. Remove the Top Cover Assembly.

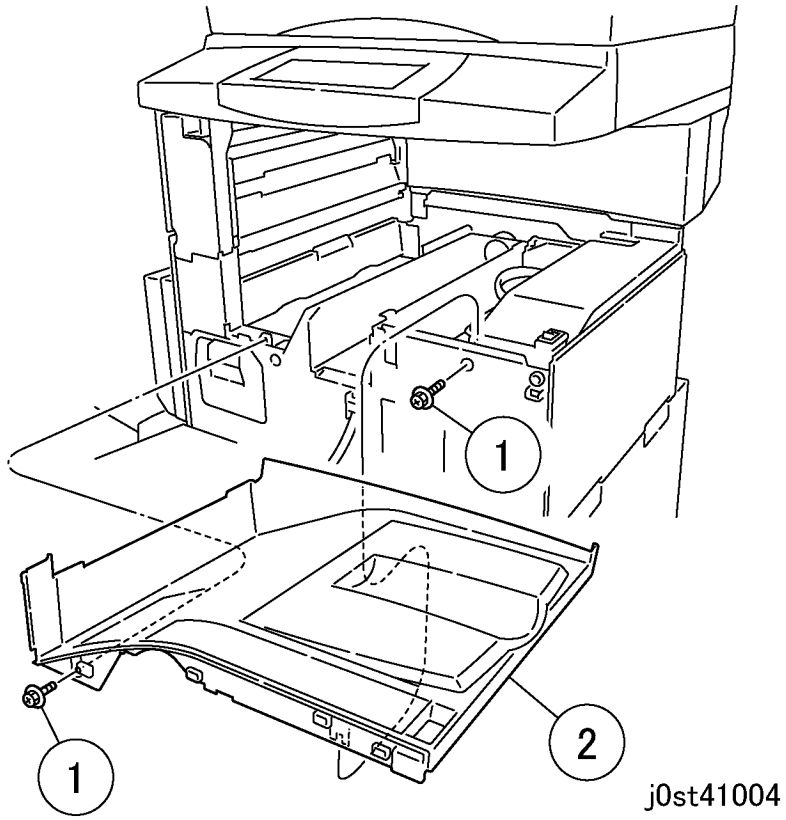


Figure 3 Removing the Top Cover Assembly (j0st41004)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 10.2.1 Rear Lower Cover

Parts List on PL 10.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the ESS Cover Assembly. (Figure 1)
    1. Loosen the screws (x2).
    2. Remove the ESS Cover Assembly.

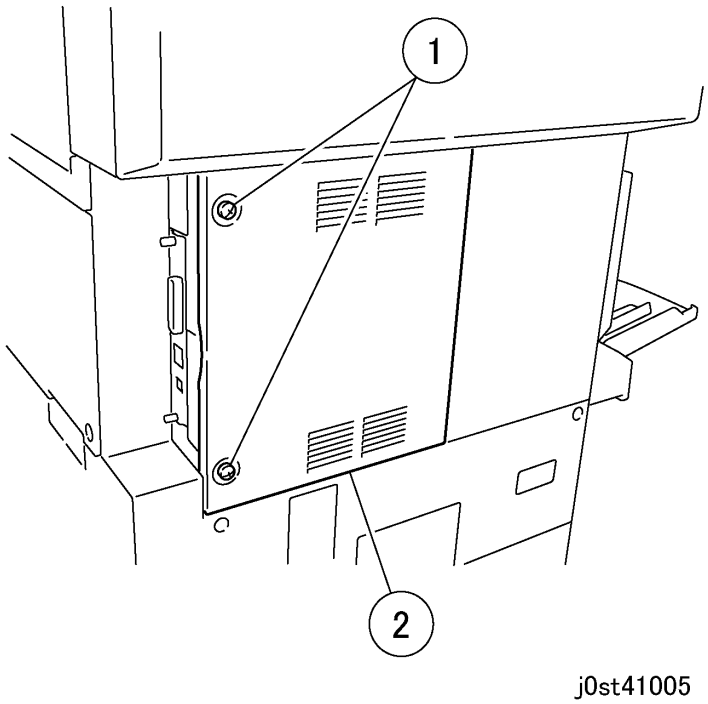


Figure 1 Removing the ESS Cover Assembly (j0st41005)

2. Remove the Rear Middle Cover. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the Rear Middle Cover.

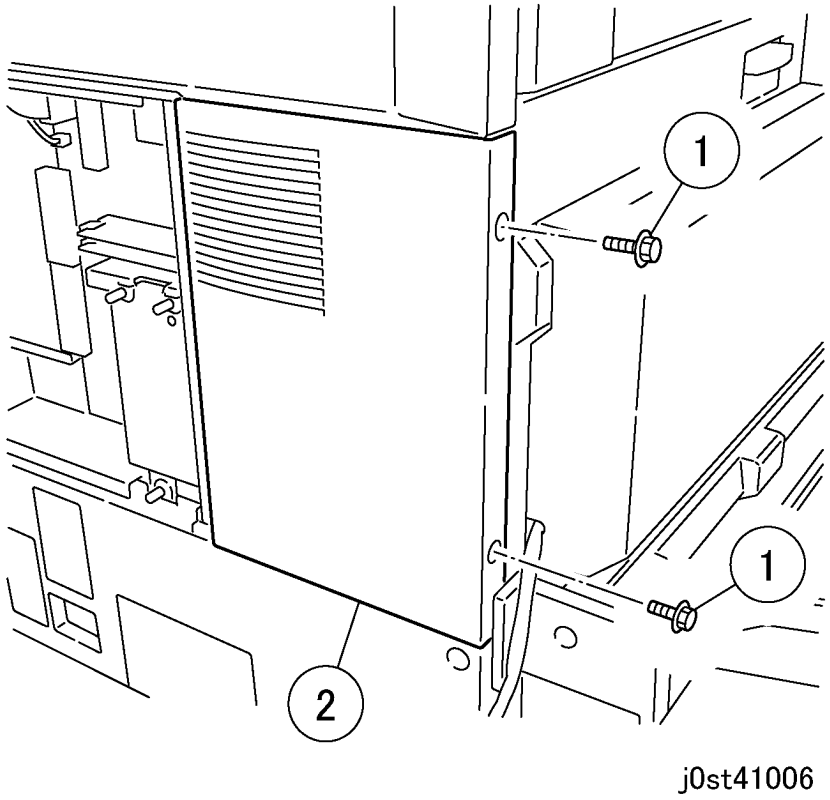


Figure 2 Removing the Rear Middle Cover (j0st41006)

3. For the Duplex and Finisher models, remove the cover. (Figure 3)
   1. Slide the cover downwards to remove it.

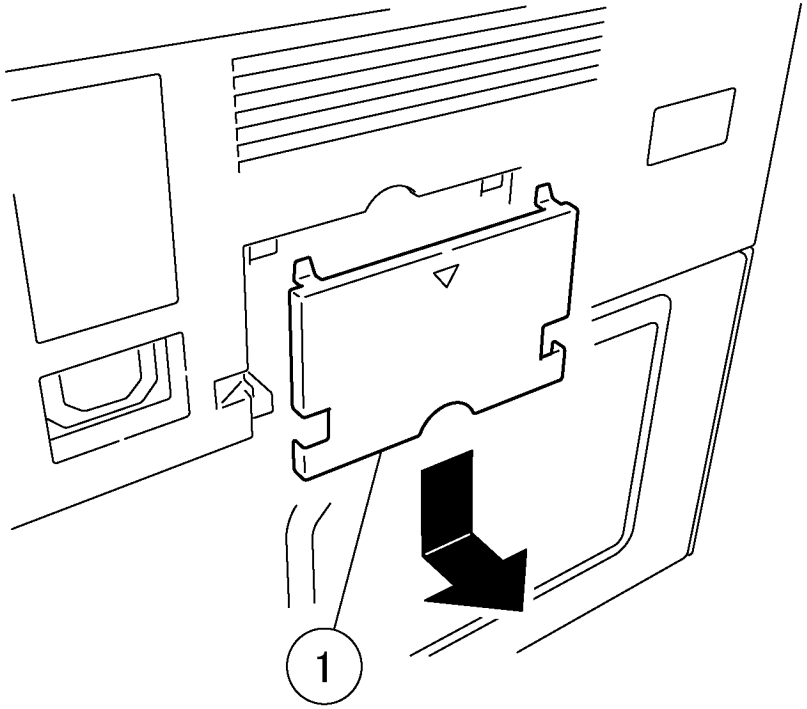


Figure 3 Removing the cover (j0st41007)

4. Remove the Rear Lower Cover. (Figure 4)
   1. Remove the screws (x2).
   2. Remove the Rear Lower Cover.

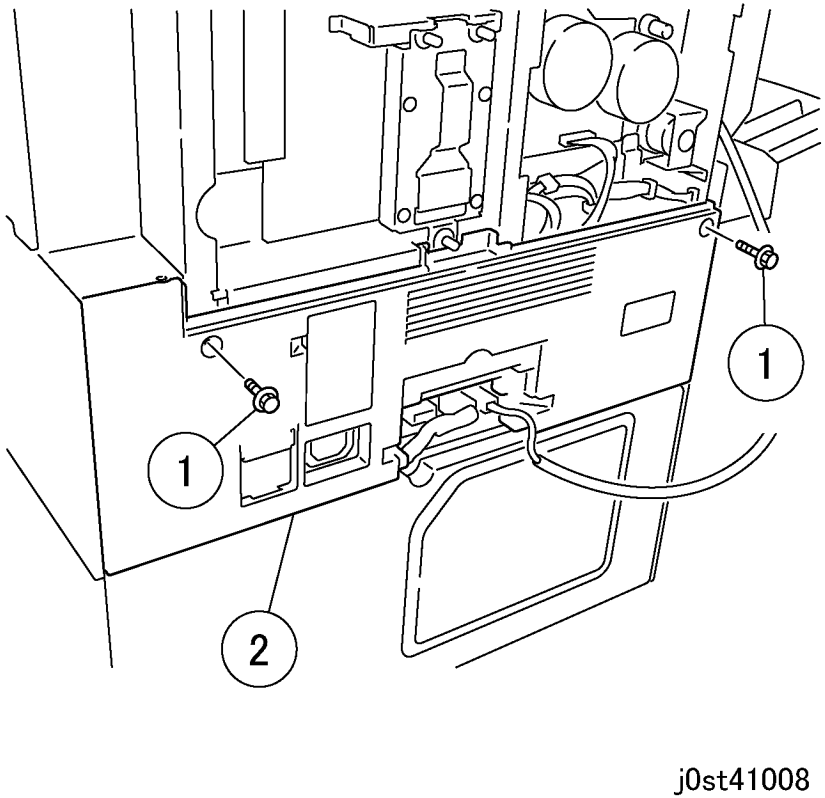


Figure 4 Removing the Rear Lower Cover (j0st41008)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.1.1 Platen Cushion

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status] button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Platen Cushion. (Figure 1)
   1. Remove the Platen Cushion.

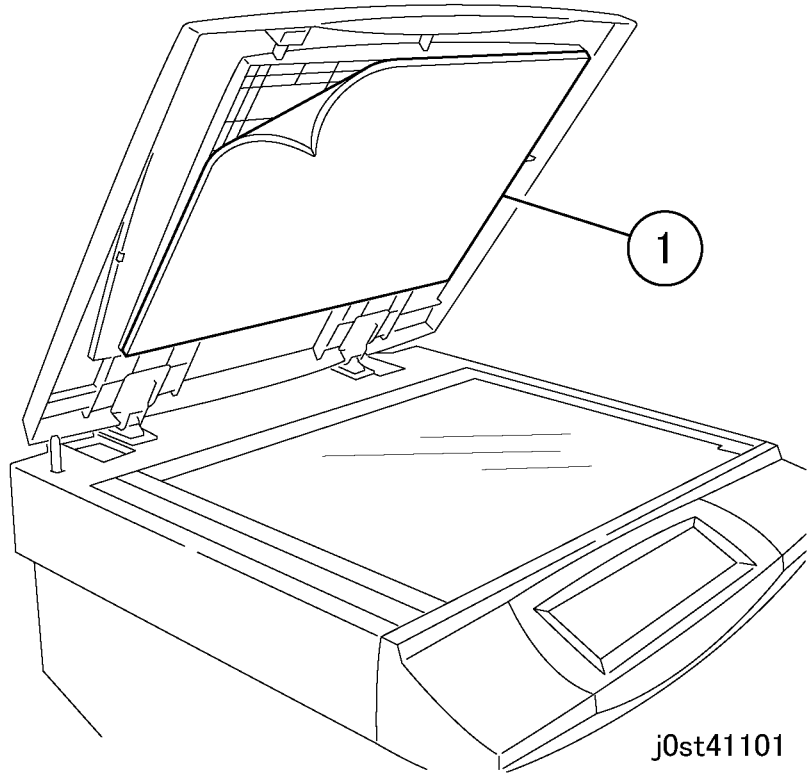


Figure 1 Removing the Platen Cushion (j0st41101)

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.

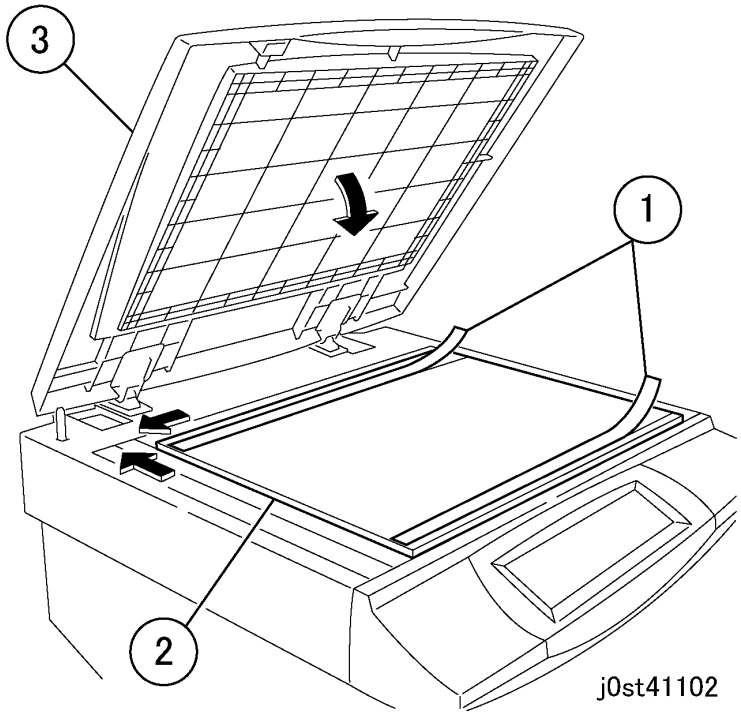


Figure 2 Installing the Platen Cushion (j0st41102)

REP 11.1.2 Control Panel Assembly

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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.

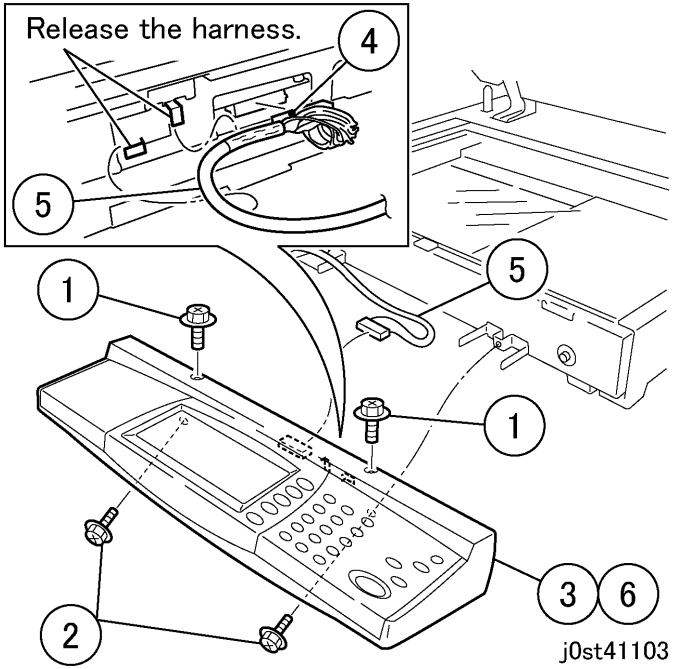


Figure 1 Removing the Control Panel Assembly (j0st41103)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.3.1 Platen Glass

Parts List on PL 11.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Platen Glass. (Figure 1)
    1. Remove the screws (x2).
    2. Remove the plate.
    3. Remove the Platen Glass.

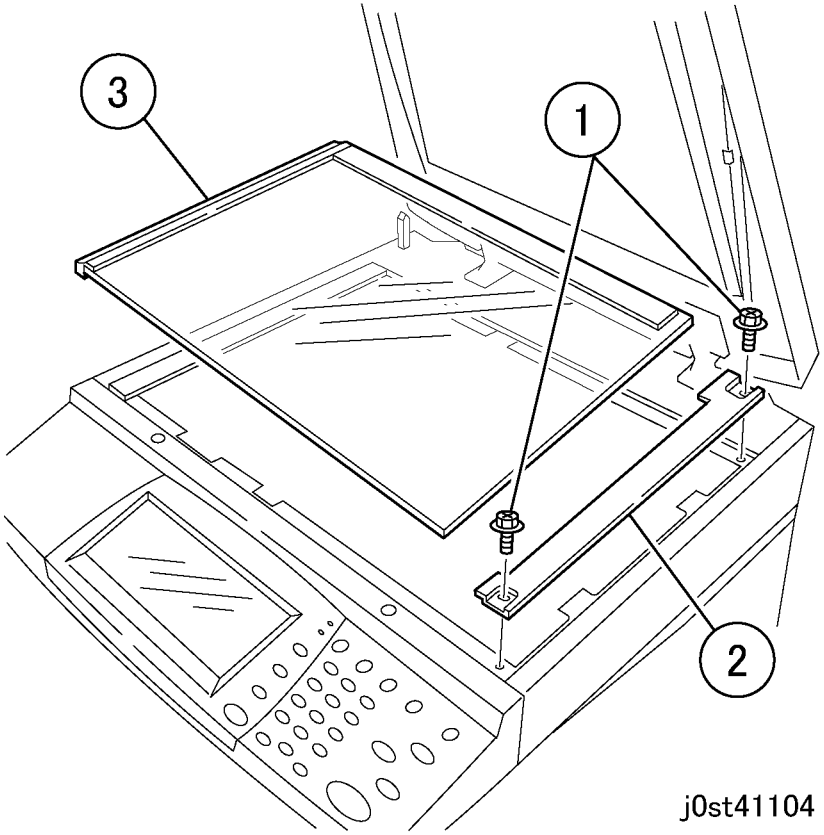


Figure 1 Removing the Platen Glass (j0st41104)

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)*

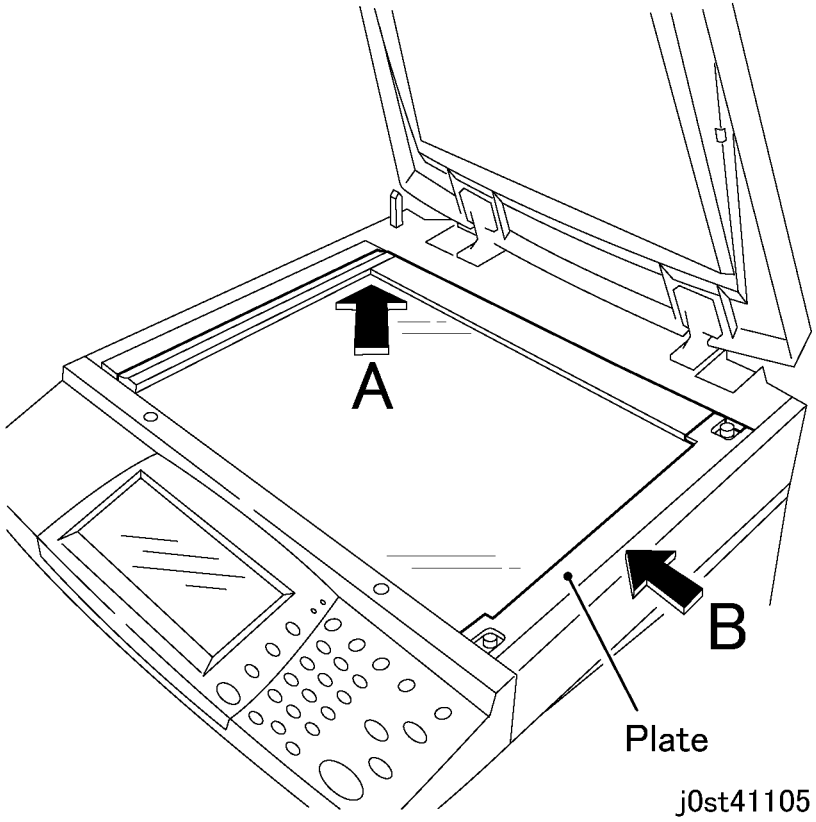


Figure 2 Installing the Platen Glass (j0st41105)

REP 11.3.2 IIT/IPS PWB

Parts List on PL 11.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the following parts:
   - Platen Glass (REP 11.3.1)
2. Remove the IPS Cover. (Figure 1)
   1. Remove the screws (x7).
   2. Remove the IPS Cover.

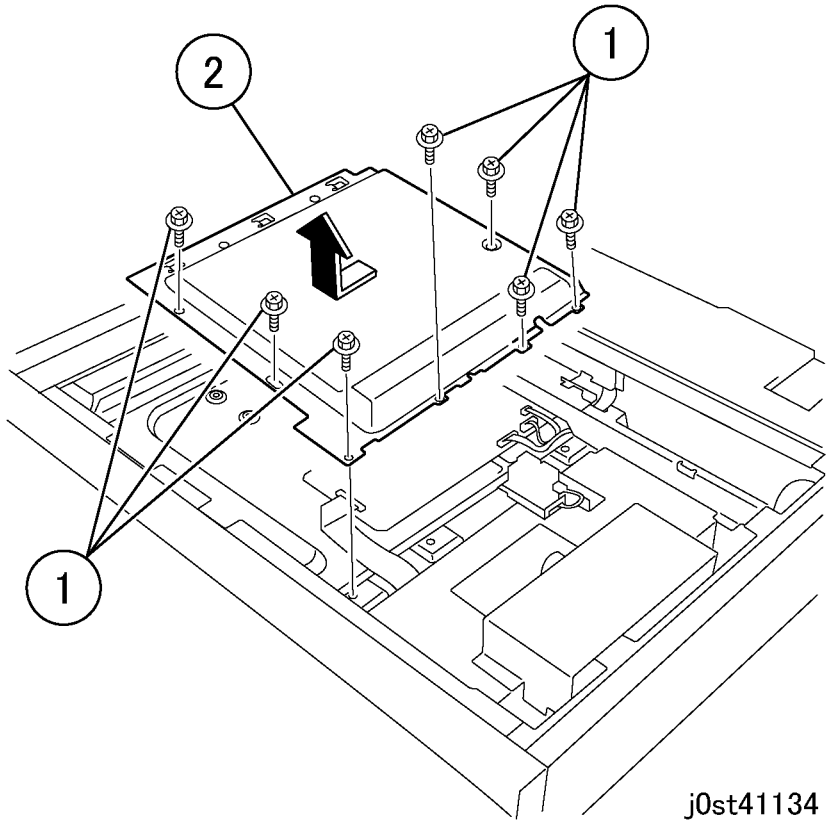


Figure 1 Removing the IPS Cover (j0st41134)

3. Disconnect the cable (IIT-DADF).

4. Disconnect the connector. (Figure 2)
   1. Disconnect the connectors (x5).

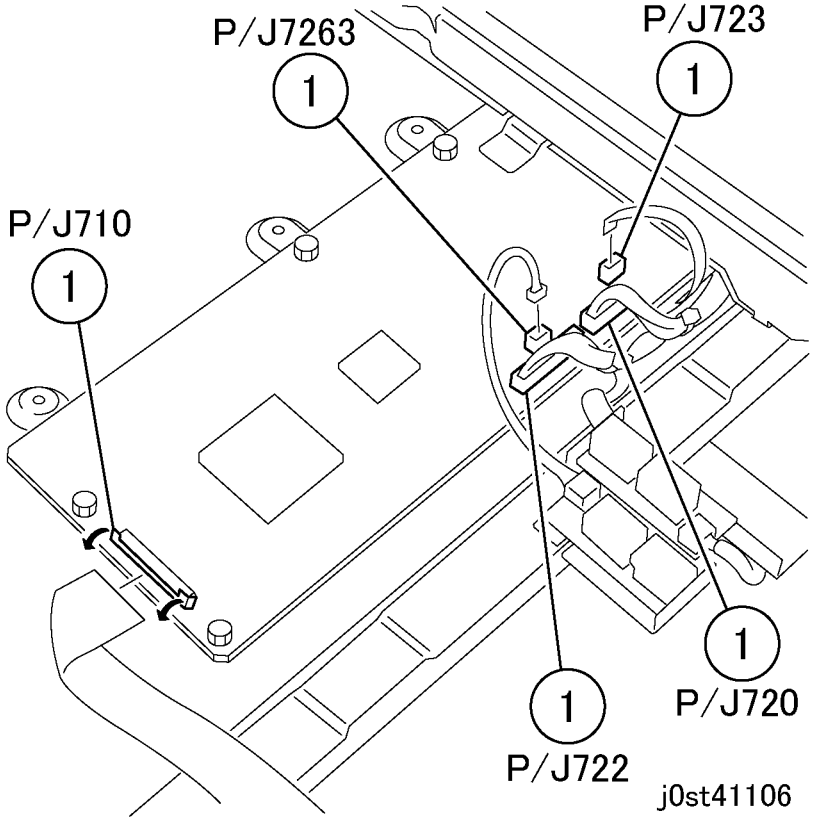


Figure 2 Disconnecting the connector (j0st41106)

5. Remove the IIT/IPS PWB. (Figure 3)
   1. Remove the screws (x6).
   2. Remove the screws (x2).
   3. Remove the IIT/IPS PWB.

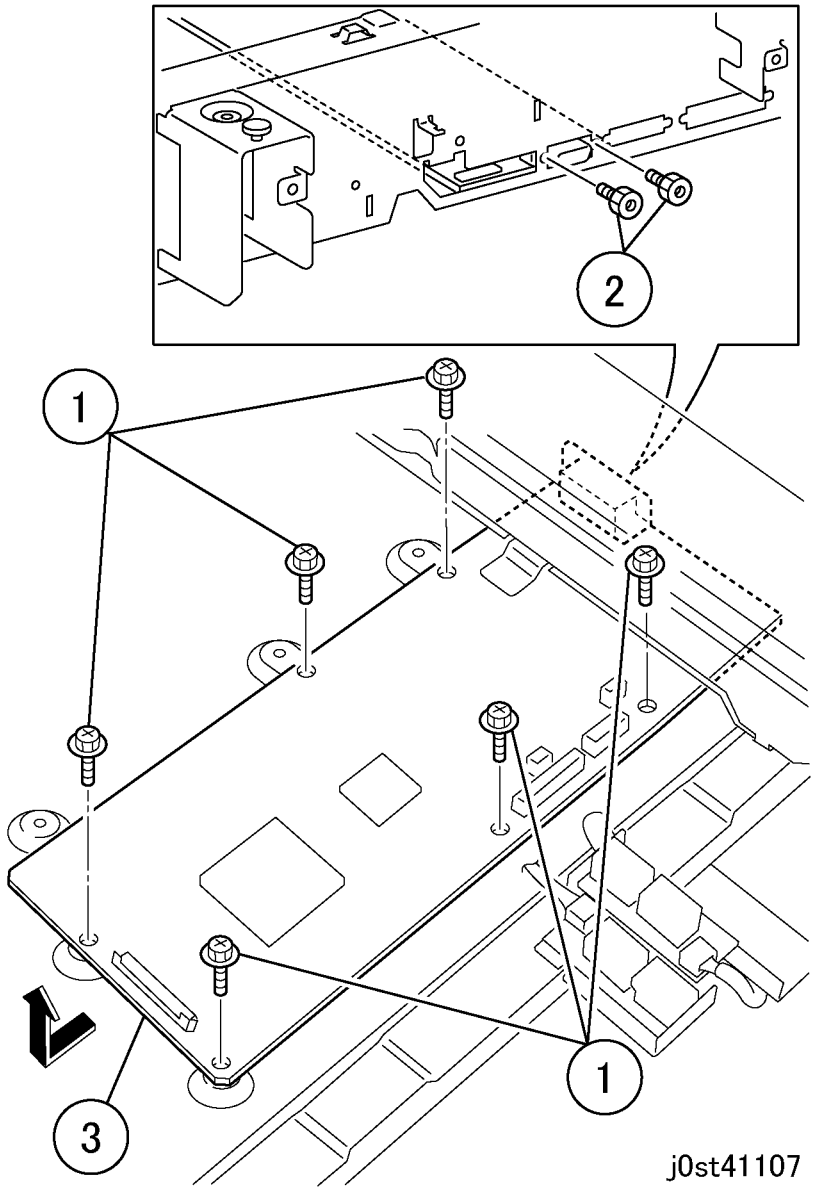


Figure 3 Removing the IIT/IPS PWB (j0st41107)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When having replaced the IIT/IPS PWB, install the EP ROM from the old IIT/IPS PWB on the new IIT/IPS PWB. (Figure 4)

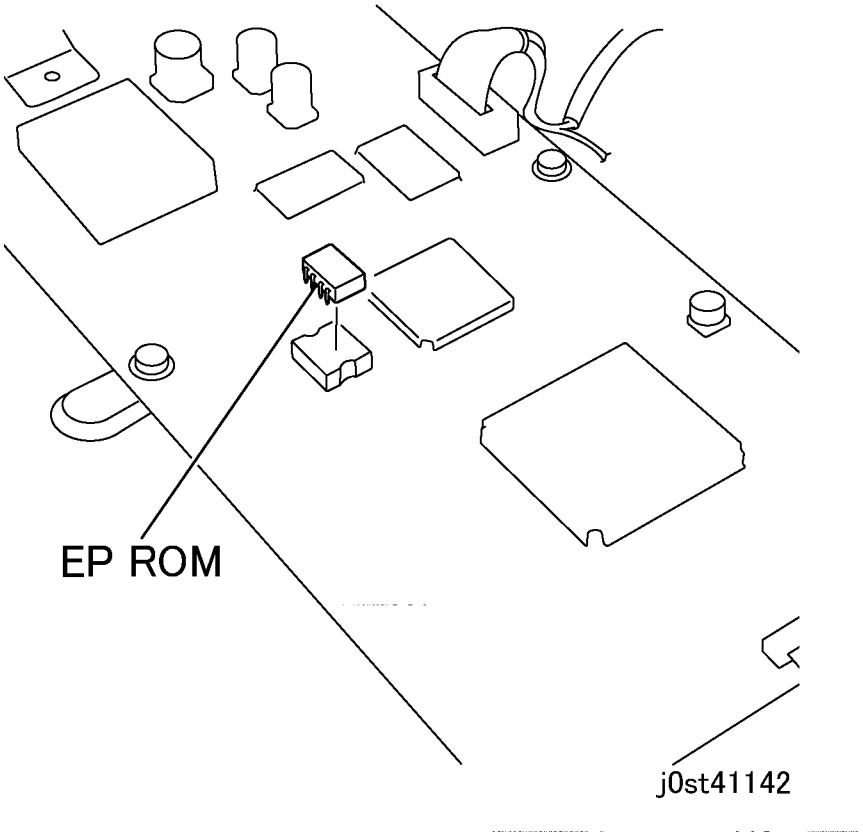


Figure 4 EP ROM Replacement (j0st41142)

REP 11.4.1 Lens Kit Assembly

Parts List on PL 11.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Platen Glass. (REP 11.3.1)

2. Remove the APS Sensor. (Figure 1)
    1. Remove the Screw.
    2. Remove the APS Sensor.

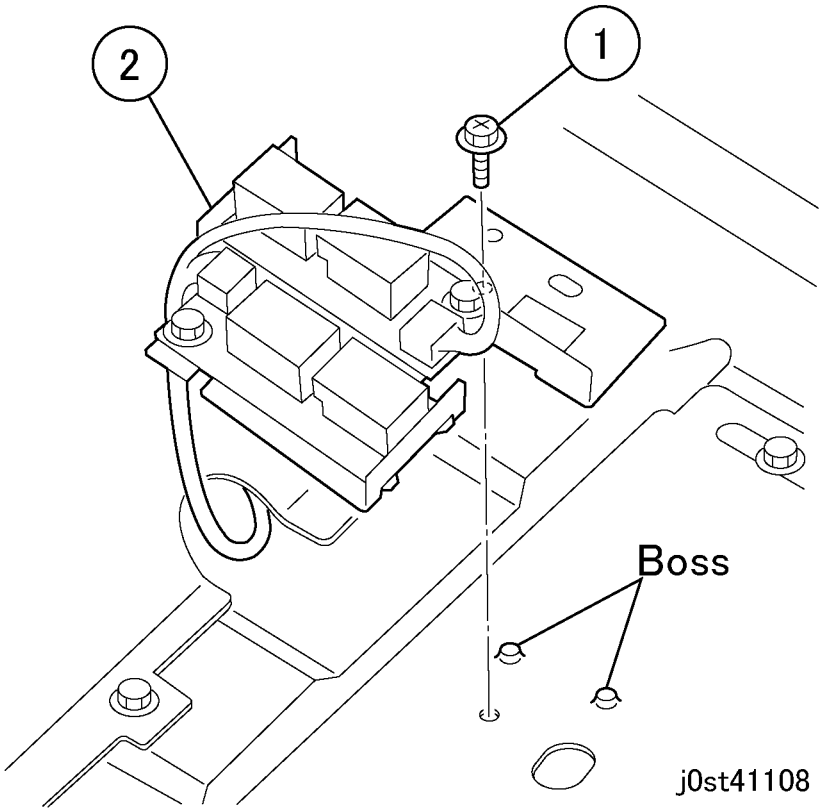


Figure 1 Removing the APS Sensor (j0st41108)

3. Remove the Lens Cover. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the Lens Cover.

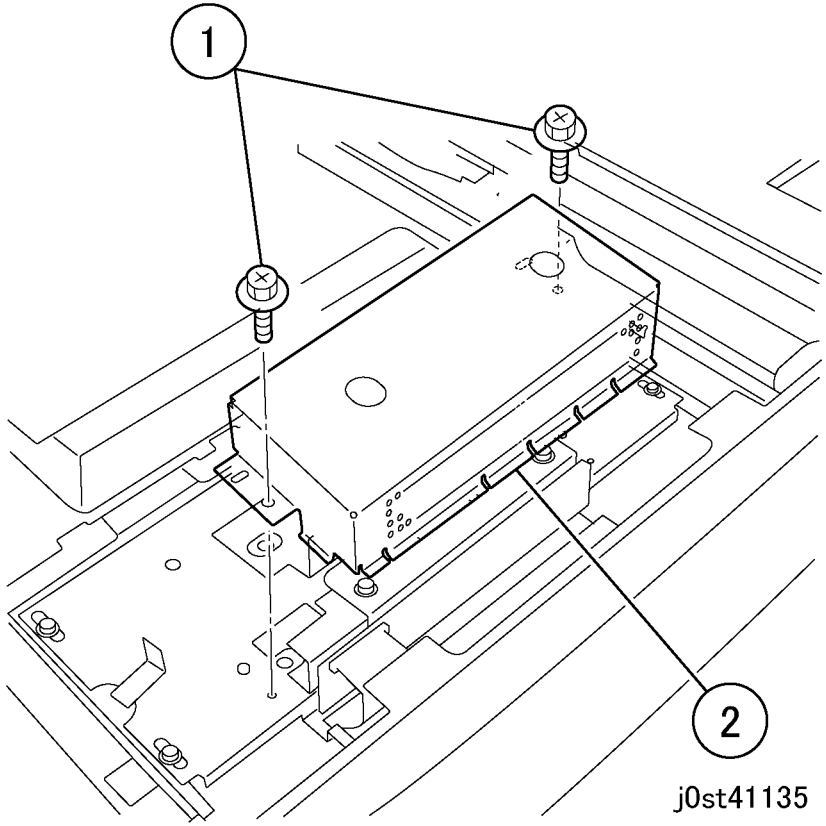


Figure 2 Removing the Lens Cover (j0st41135)

4. Disconnect the CCD Flat Cable. (Figure 3)
    1. Take off the hook.
    2. Disconnect the CCD Flat Cable.

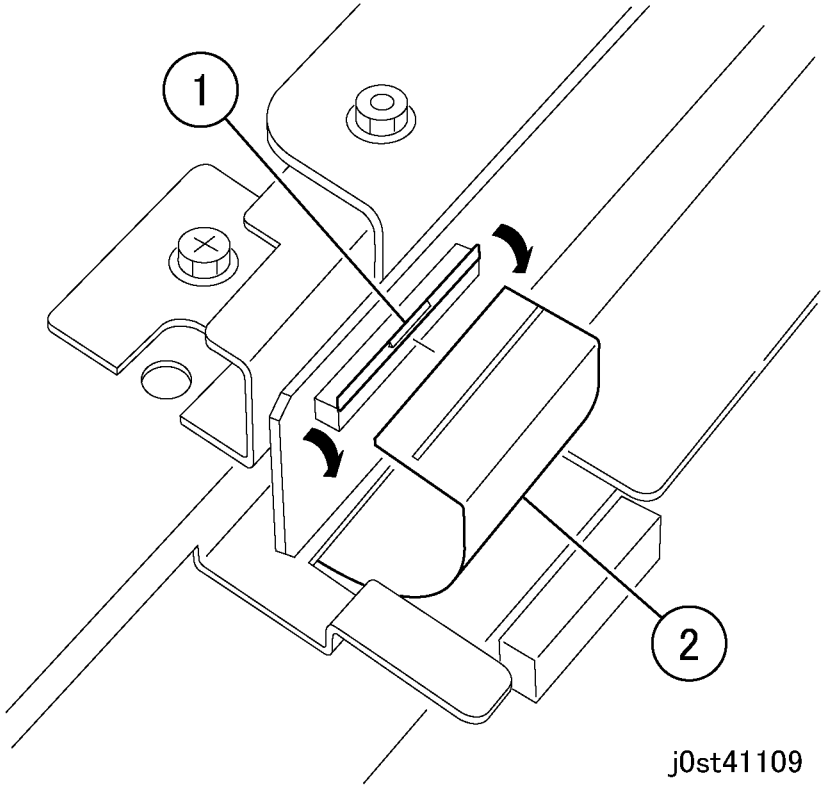


Figure 3 Disconnecting the CCD Flat Cable (j0st41109)

5. Replace the Lens Kit Assembly. (Figure 4)
    1. Remove the screws (x4).
    2. Replace the Lens Kit Assembly.

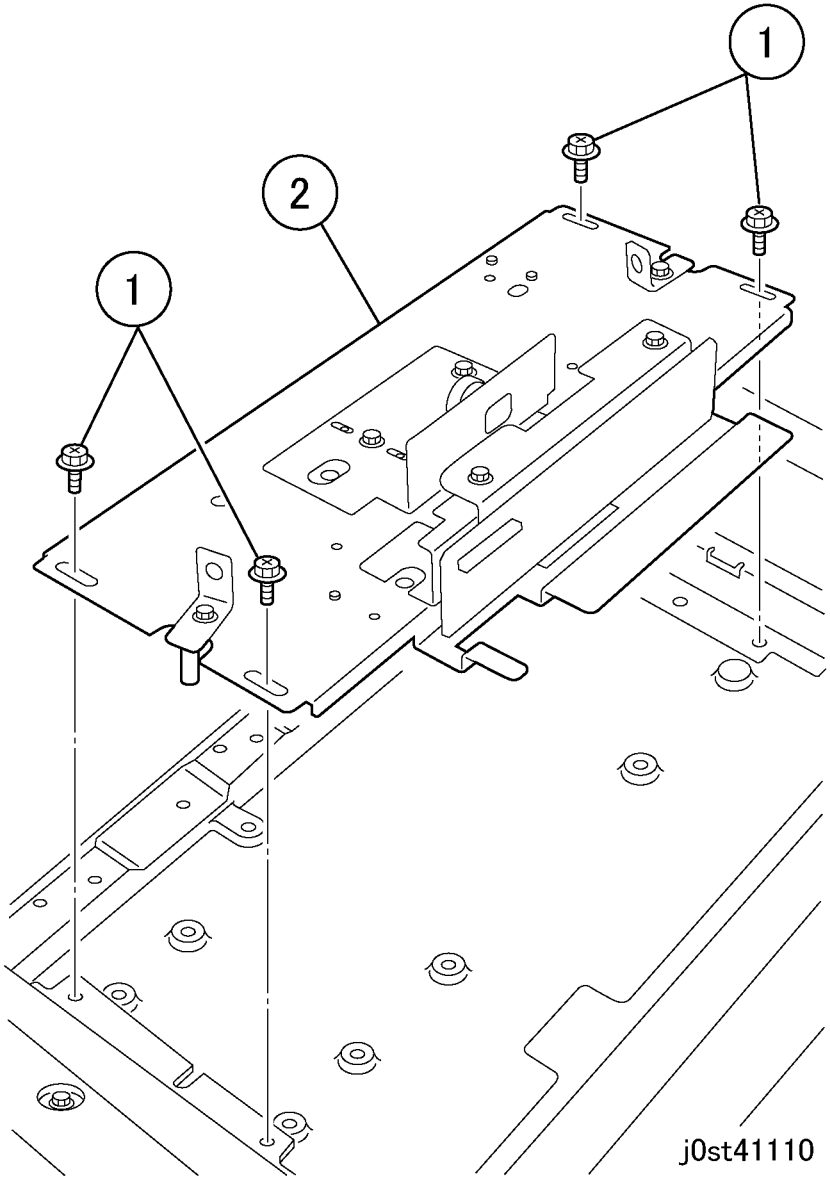


Figure 4 Removing the Lens Kit Assembly (j0st41110)

6. Connect the CCD Flat Cable and install the Lens Cover.
7. Install the Platen Glass. (No need to install the Glass Press Guide.)
8. Turn on the power. Print the Controller built-in Total Chart (Pattern 052) and check that the IOT Lead Edge/Side Edge fall within the specifications. If they do not fall within the specifications, perform ADJ 9.1.1 IOT Lead Edge/Side Edge Adjustment.
9. Place the Test Chart (82P521) on the Platen and make a copy. (A3, 100%, 1 sheet)
10. Measure the length of A and B indicated in the diagram using the scale. Record the measurements as L0 and R0.

    (Scan in 0.5mm increments)

    Adjustment is complete if L0 and R0 satisfy the specifications (L0=15+/-1.6 mm, R0=15+/-1.6 mm).

    If they do not satisfy the specifications, go to Step 4. (Figure 5)

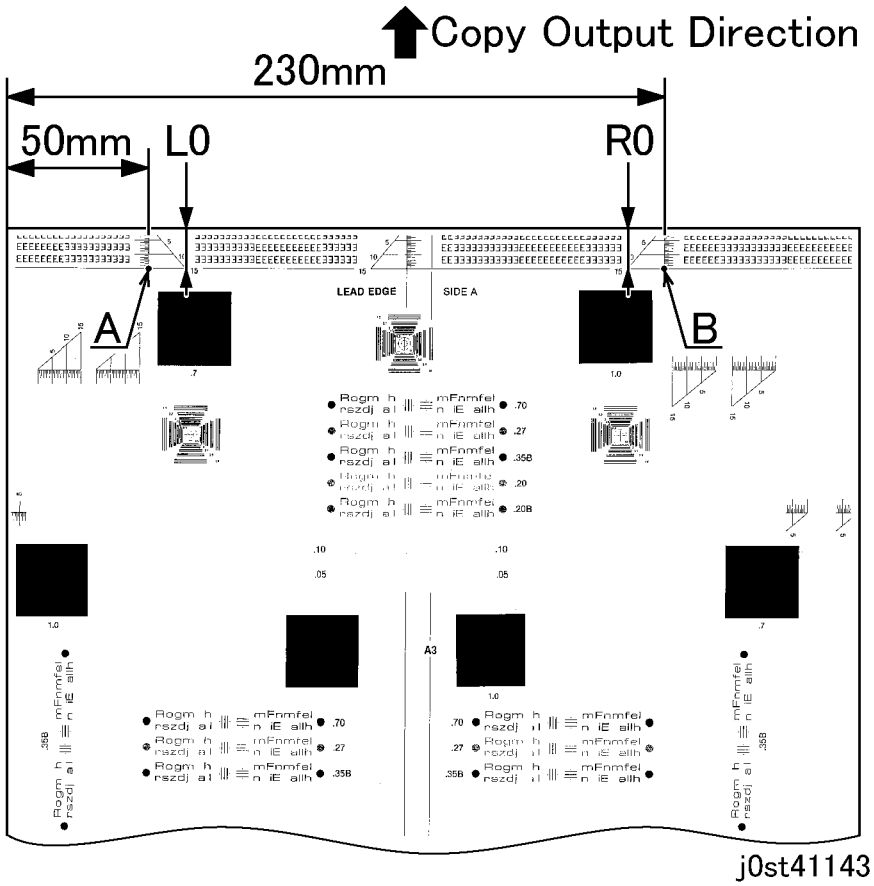


Figure 5 Chart for checking L0 and R0 (j0st41143)

11. With the measurements taken for L0 and R0, refer to the adjustment table below for the required rotation amount for the nuts on the CCD Assembly Bracket.
    - Unit (L0, R0) : mm
    - Rotation : degree
    - Direction : +ve: Right, -ve: Left

Table 1 Adjustment Table (Nut Rotation Amount)

		R0=13	R0=13.5	R0=14	R0=14.5	R0=15	R0=15.5	R0=16	R0=16.5	R0=17
L0=13	Front	+165	+240	+315	+390	+465	+555	+630	+705	+780
	Rear	+165	+45	-90	-210	-330	-450	-570	-690	-810
L0=13.5	Front	+45	+120	+195	+270	+360	+435	+510	+585	+660
	Rear	+240	+120	0	-120	-240	-375	-495	-615	-735
L0=14	Front	-75	0	+75	+165	+240	+315	+390	+465	+555
	Rear	+330	+195	+75	-45	-165	-285	-405	-525	-645
L0=14.5	Front	-195	-120	-45	+45	+120	+195	+270	+345	+435
	Rear	+405	+285	+165	+45	-75	-210	-330	-450	-570
L0=15	Front	-315	-240	-150	-75	0	+75	+150	+240	+315
	Rear	+495	+360	+240	+120	0	-120	-240	-360	-495
L0=15.5	Front	-435	-345	-270	-195	-120	-45	+45	+120	+195
	Rear	+570	+450	+330	+210	+75	-45	-165	-285	-405
L0=16	Front	-555	-465	-390	-315	-240	-165	-75	0	+75
	Rear	+645	+525	+405	+285	+165	+45	-75	-195	-330
L0=16.5	Front	-660	-585	-510	-435	-360	-270	-195	-120	-45
	Rear	+735	+615	+495	+375	+240	+120	0	-120	-240
L0=17	Front	-780	-705	-630	-555	-465	-390	-315	-240	-165
	Rear	+810	+690	+570	+450	+330	+210	+90	-45	-165

12. Turn off the power.
13. Remove the Platen Glass. Turn the respective nuts using the Box Driver according to the direction and amount given in Step 11. (Figure 6)

NOTE: *As it is difficult to control the rotation amount, draw a line on the paper to make a mark at the tip of the Box Driver using tape as shown in the figure below.*

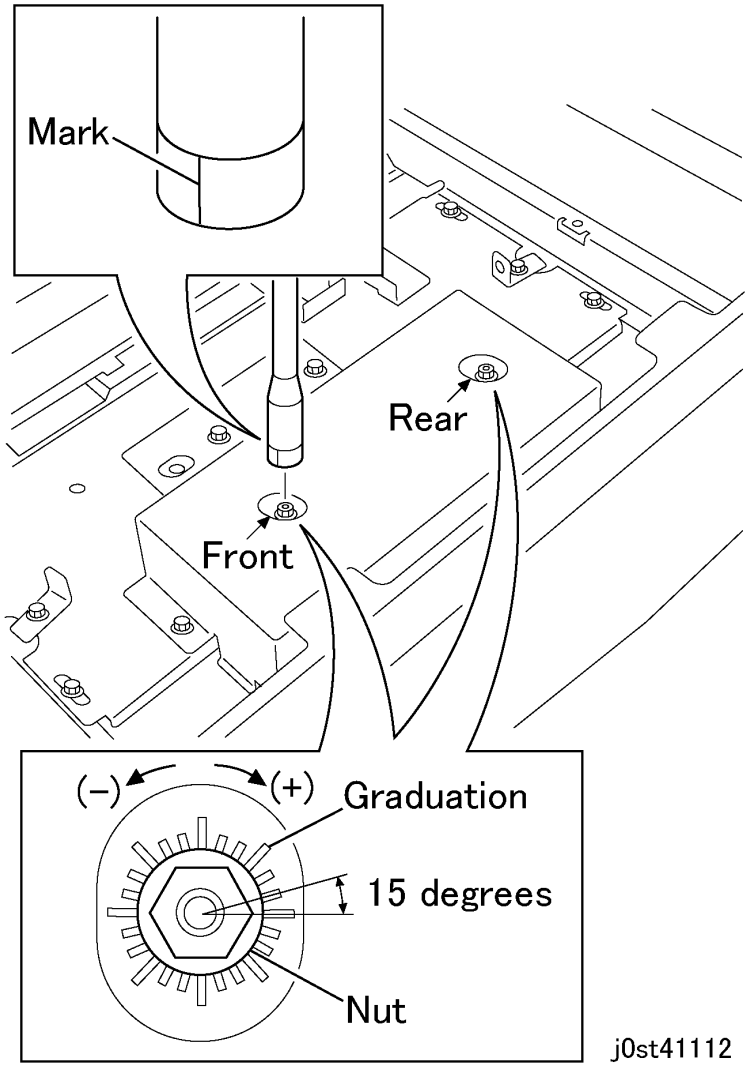


Figure 6 Making the mark(j0st41112)

14. Turn on the power again and repeat Steps 9 and 10.
15. Adjustment is complete if L0 and R0 satisfy the specifications. Repeat Steps 11 to 14 until L0 and R0 satisfy the specifications (L0=15+/-1.6 mm, R0=15+/-1.6 mm).
16. Check the Side Registration. If it does not fall within the specifications, perform ADJ 11.1.1 IIT Lead/Side Registration Adjustment.
17. Reinstall all the parts removed.

REP 11.5.1 Carriage Cable

Parts List on PL 11.5

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. For the Platen models, remove the Platen Cover. (Figure 1)
   1. Remove the Platen Cover.

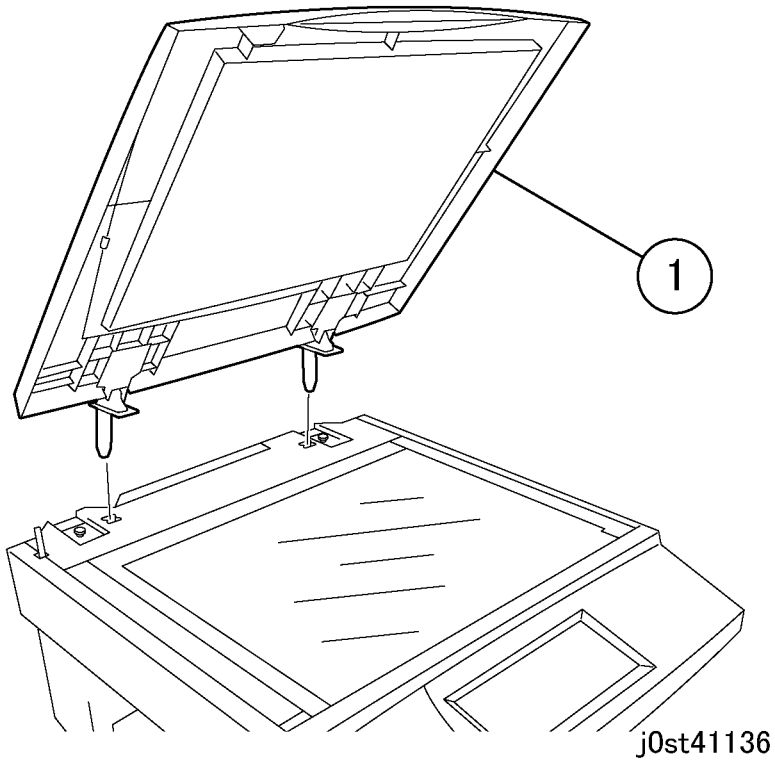


Figure 1 Removing the Platen Cover (j0st41136)

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 Left Side Plate. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the Support Glass on both sides.
    3. Remove the Left Side Platen.

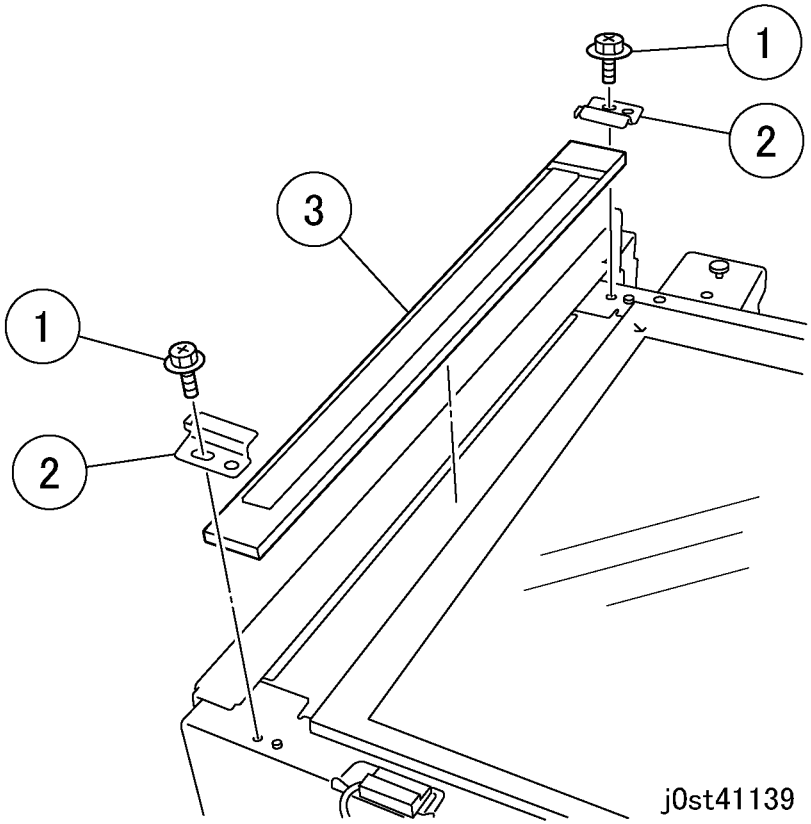


Figure 2 Removing the Left Side Platen (j0st41139)

4. Unfasten the Full Rate Carriage from the Carriage Cable. (Figure 3)
    1. Remove the screws (x2).

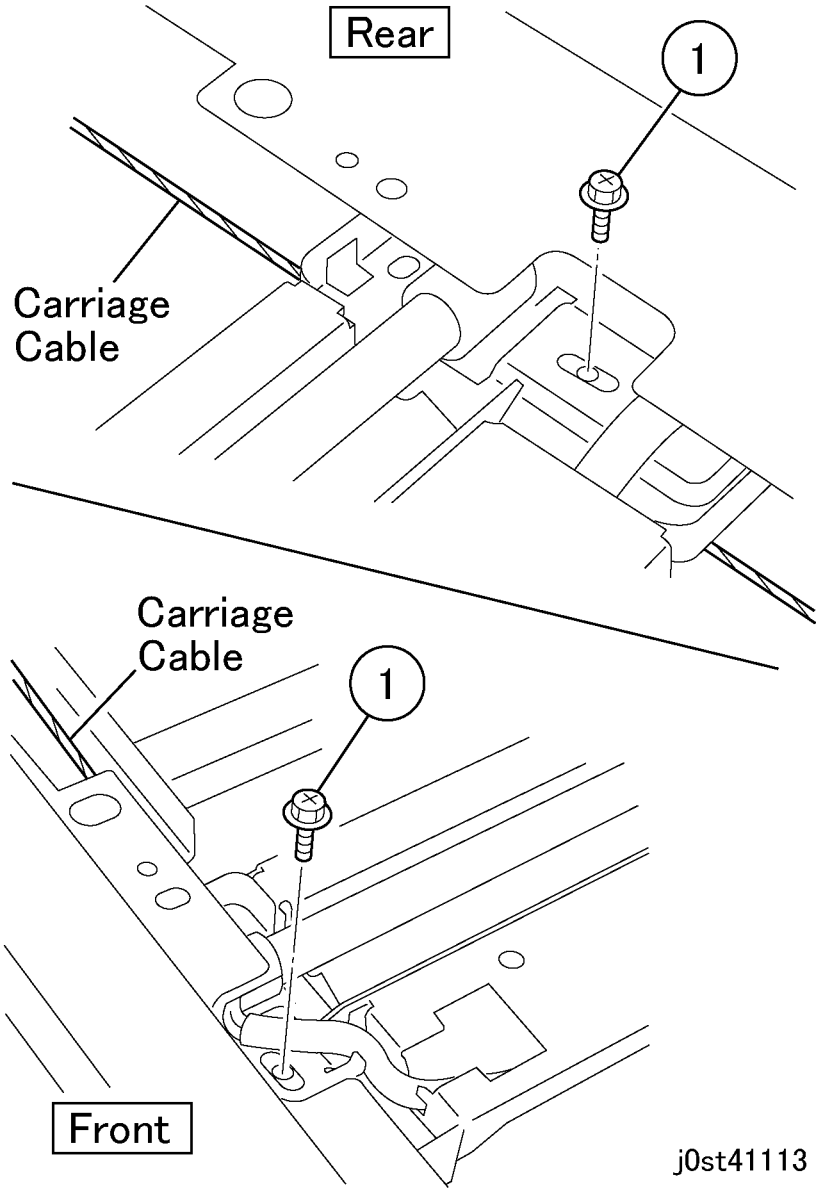


Figure 3 Unfastening the Full Rate Carriage (j0st41113)

5. Remove the Carriage Cable. (Figure 4)
    1. Remove the spring from the frame.
    2. Detach the cable from the spring.

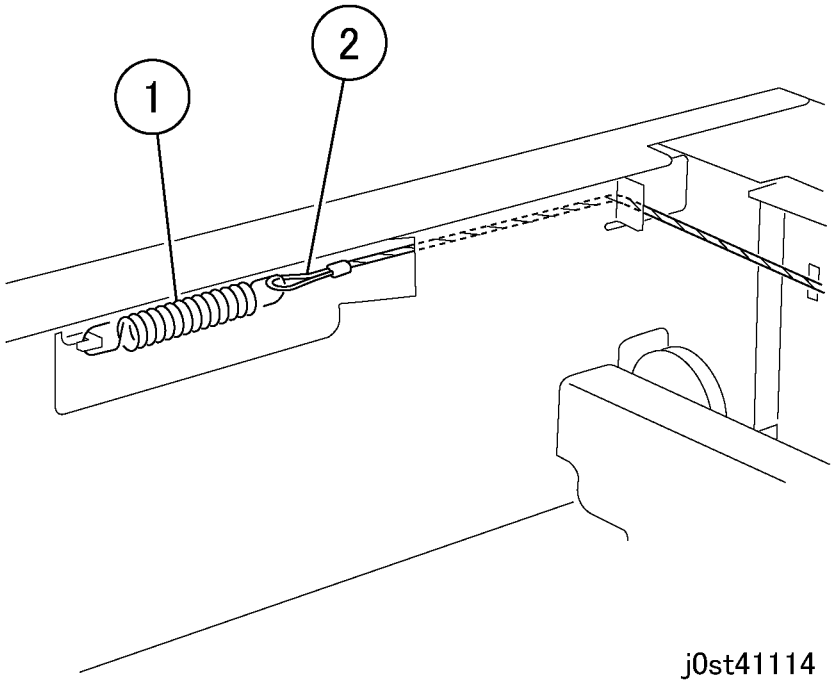


Figure 4 Removing the spring (j0st41114)

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.

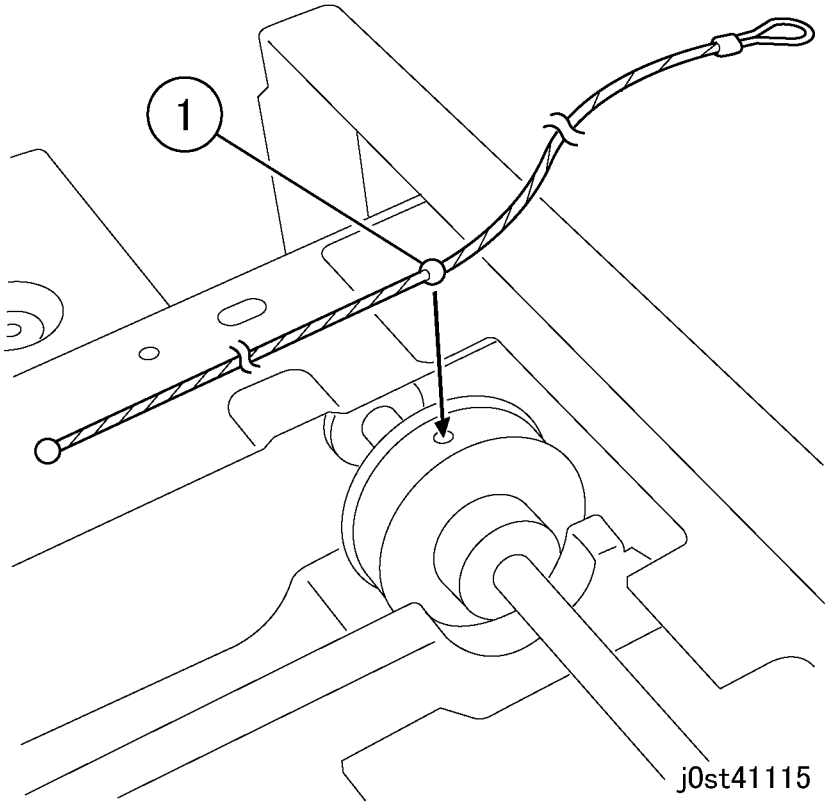


Figure 5 Winding the Carriage Cable around the pulley. 1/3 (j0st41115)

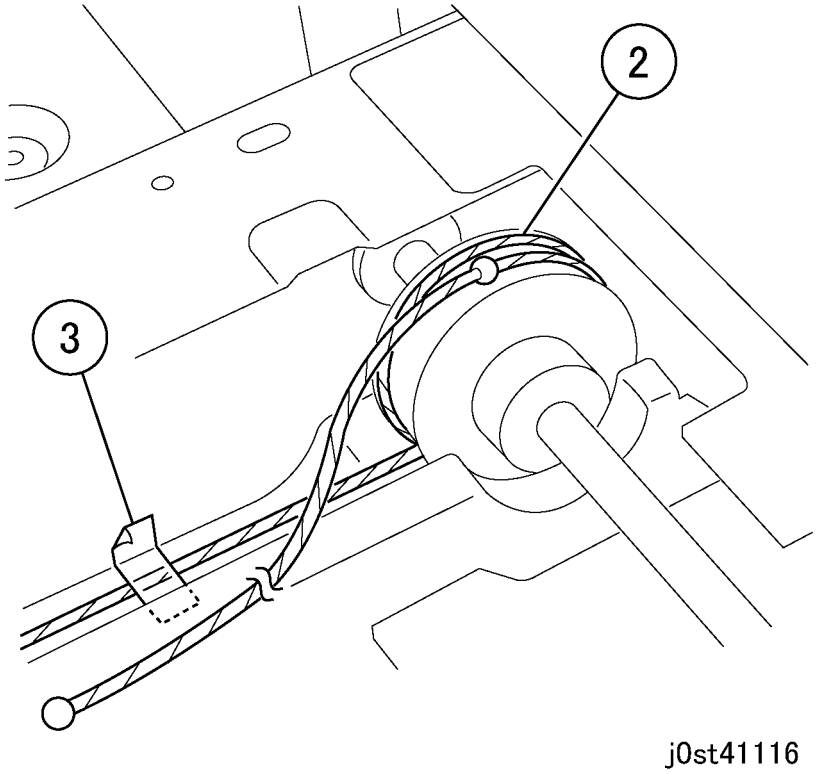


Figure 6 Winding the Carriage Cable around the pulley. 2/3 (j0st41116)

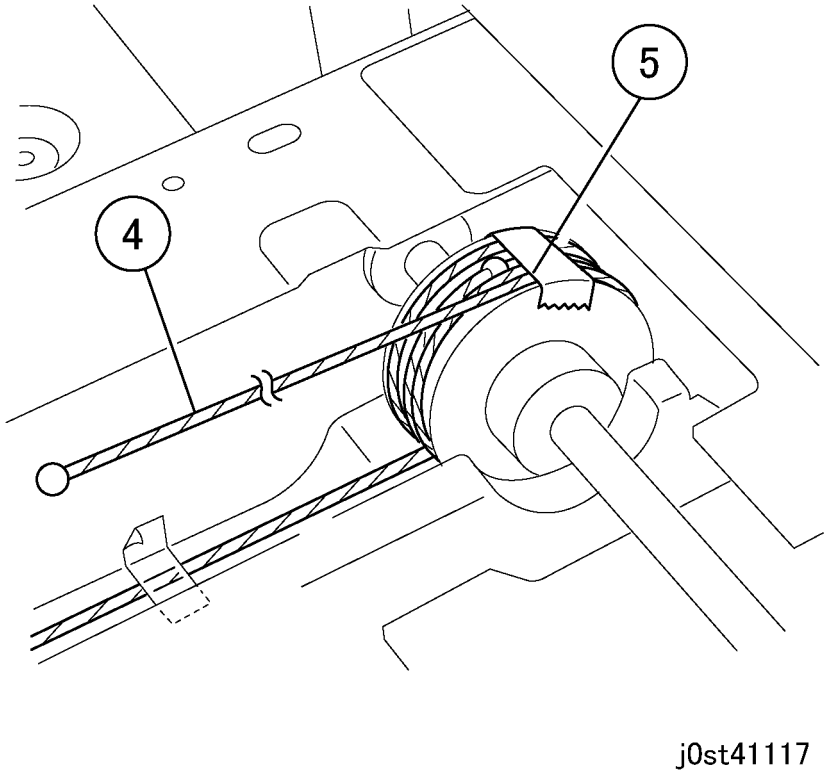


Figure 7 Winding the Carriage Cable around the pulley. 3/3 (j0st41117)

NOTE: *Indicates the number of coils made by the Carriage Cable at the front and rear. (Figure 8)*

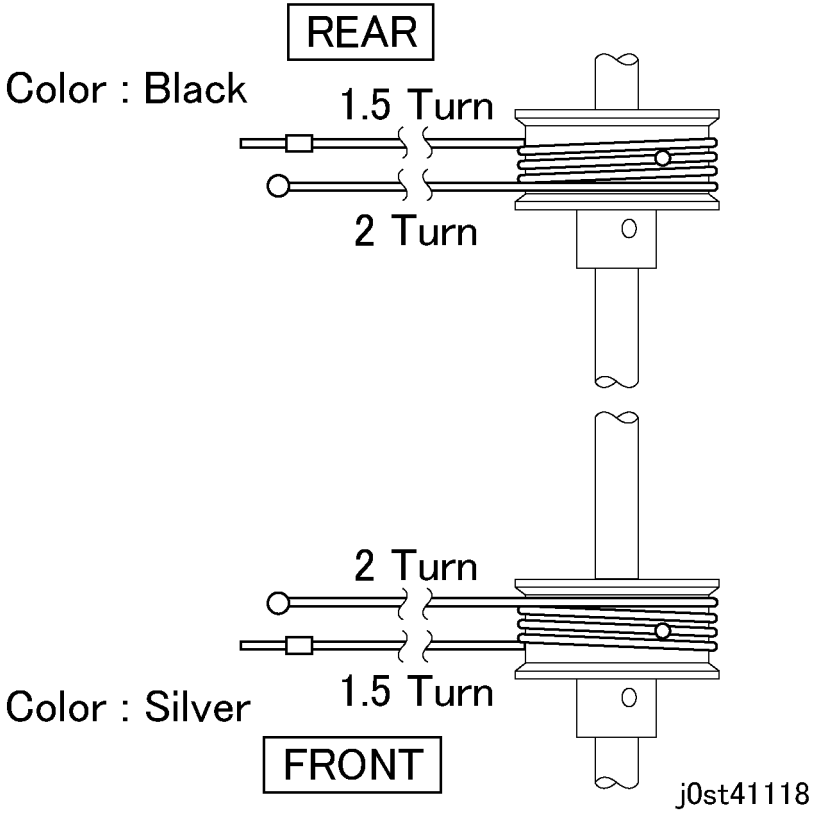


Figure 8 The number of coils made by Carriage Cable at the front and rear (j0st41118)

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.

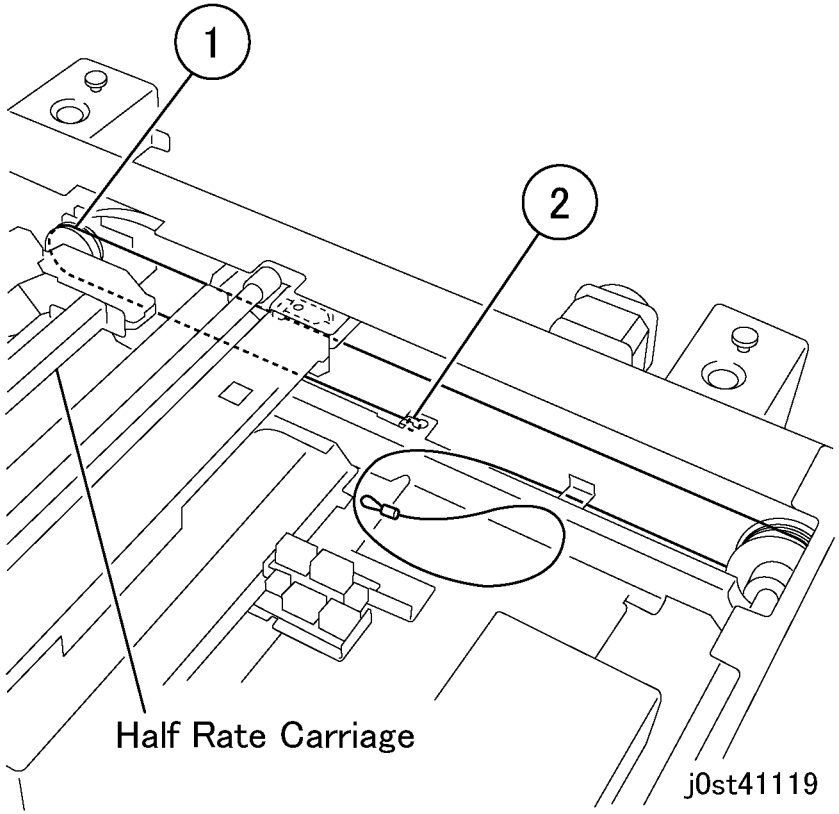


Figure 9 Installing the Carriage Cable (j0st41119)

3. Install the spring end of the Carriage Cable. (Figure 10)
   1. Route the spring end of the Carriage Cable along the frame and on the pulley.
   2. Route the cable on the pulley at the rear of the Half Rate Carriage.
   3. Attach the spring to the Carriage Cable and route the cable along the frame as indicated.
   4. Fix the Full Rate Carriage on the Carriage Cable.

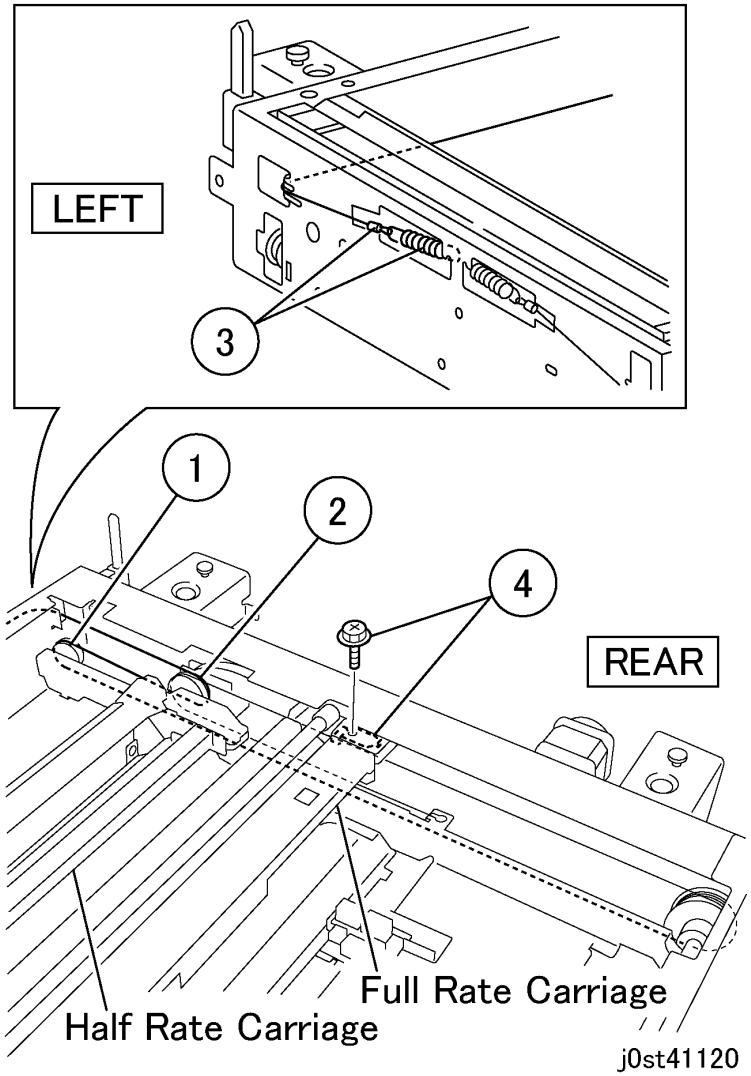


Figure 10 Installing the spring (j0st41120)

4. Fix the Full Rate Carriage at the front side. (Figure 11)
   1. Fix the Full Rate Carriage on the Carriage Cable.

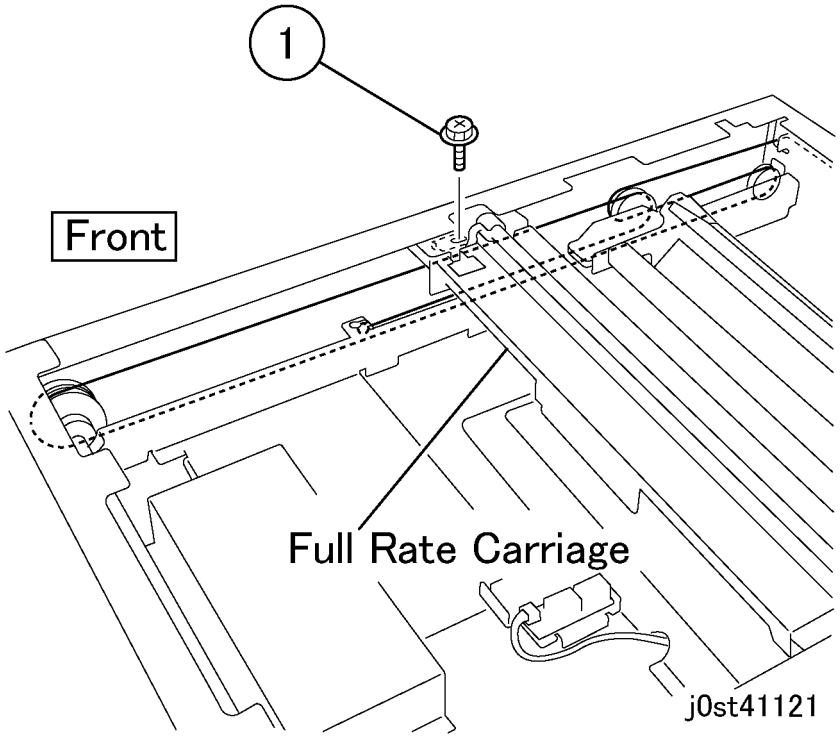


Figure 11 Installing the Carriage Cable at the front (j0st41121)

5. Remove the tape used for keeping the cable in place.
6. Adjust the position of Full Rate/Half Rate Carriages. (ADJ 11.6.1)
7. Manually move the Full Rate Carriage to ensure that it moves smoothly.

REP 11.5.2 Carriage Motor Assembly

Parts List on PL 11.5

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the “Stored Documents” lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that “Ready to Print/Send” is displayed on the Control Panel display.

1. For the DADF models, disconnect the IIT-DATA Cable. (Figure 1)
   1. Disconnect the IIT-DATA Cable.

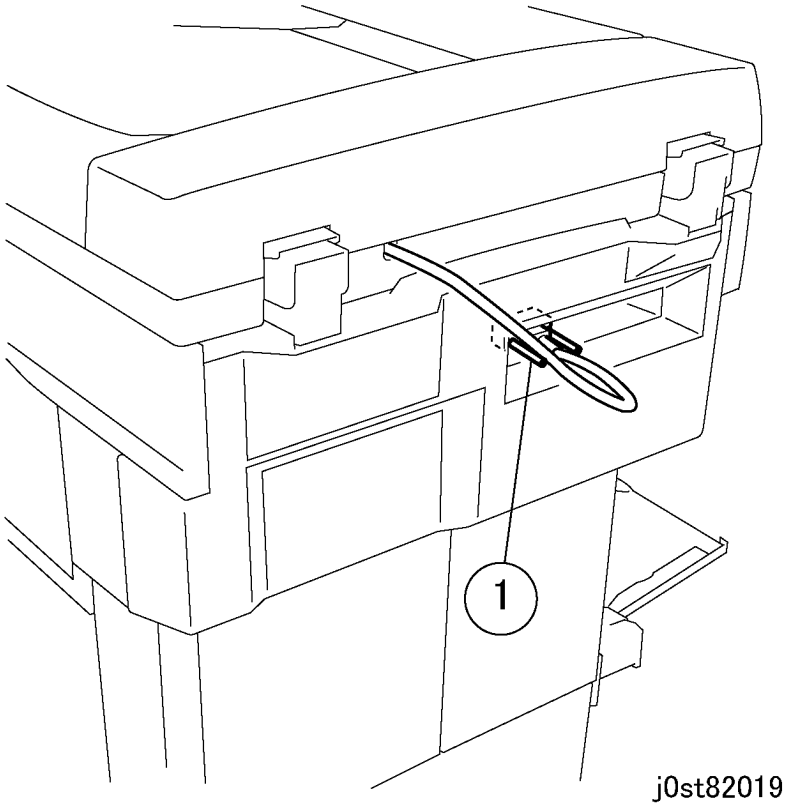


Figure 1 Disconnecting the cable (j0st82019)

2. Remove the Rear Upper Cover. (Figure 2)
    1. Remove the screws (x4).
    2. Remove the Rear Upper Cover.

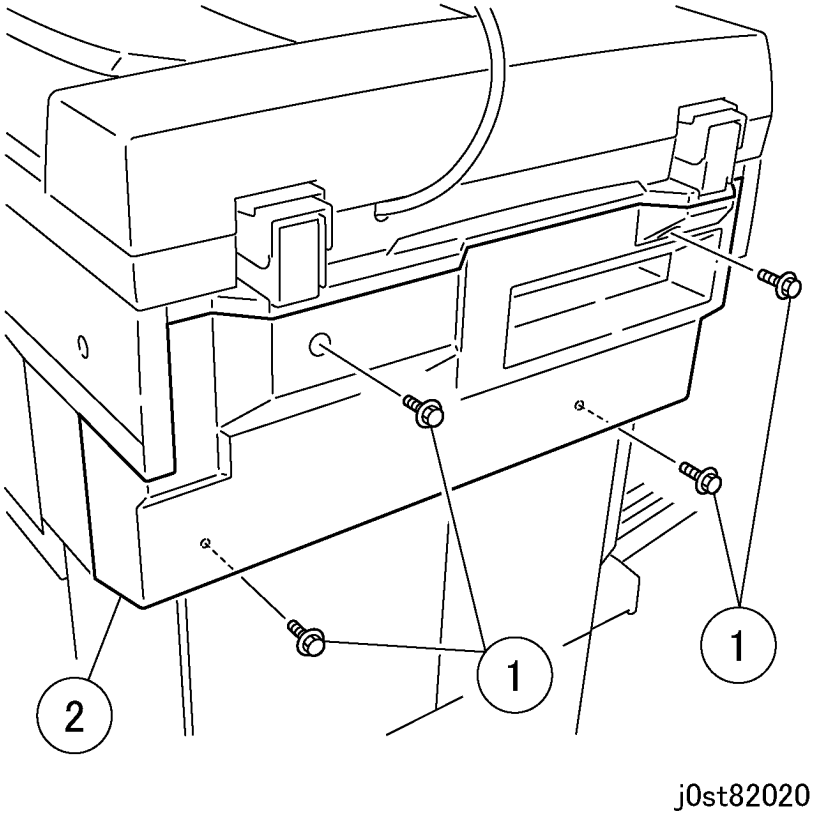


Figure 2 Removing the Rear Upper Cover (j0st82020)

3. Disconnect the connector. (Figure 3)
    1. Remove the spring.
    2. Disconnect the connector.

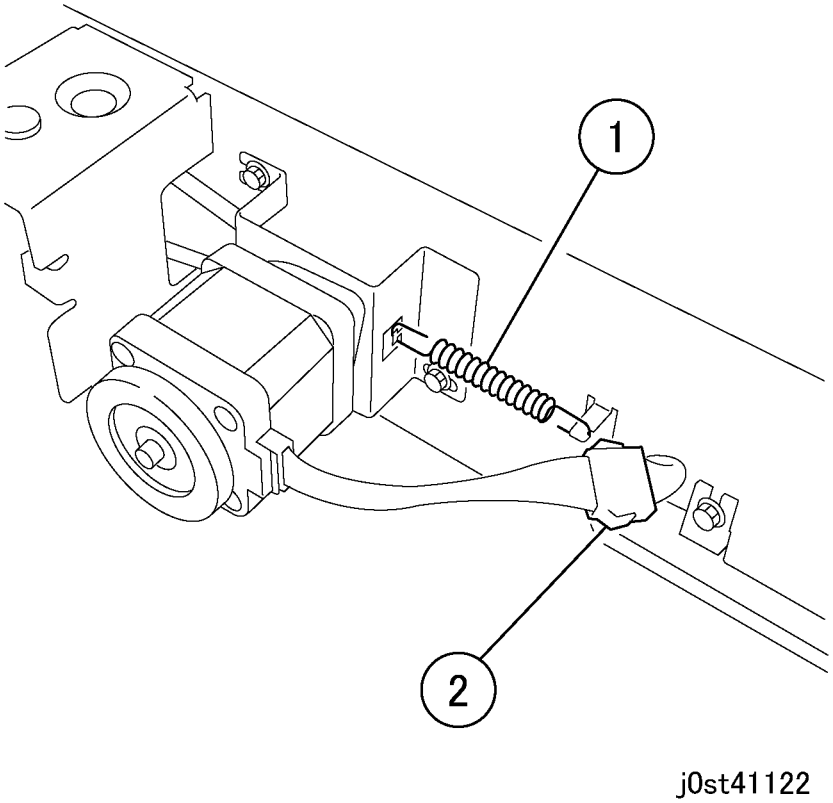


Figure 3 Disconnecting the connector (j0st41122)

4. Remove the Carriage Motor Assembly. (Figure 4)
    1. Remove the screws (x3).
    2. Remove the Carriage Motor Assembly.

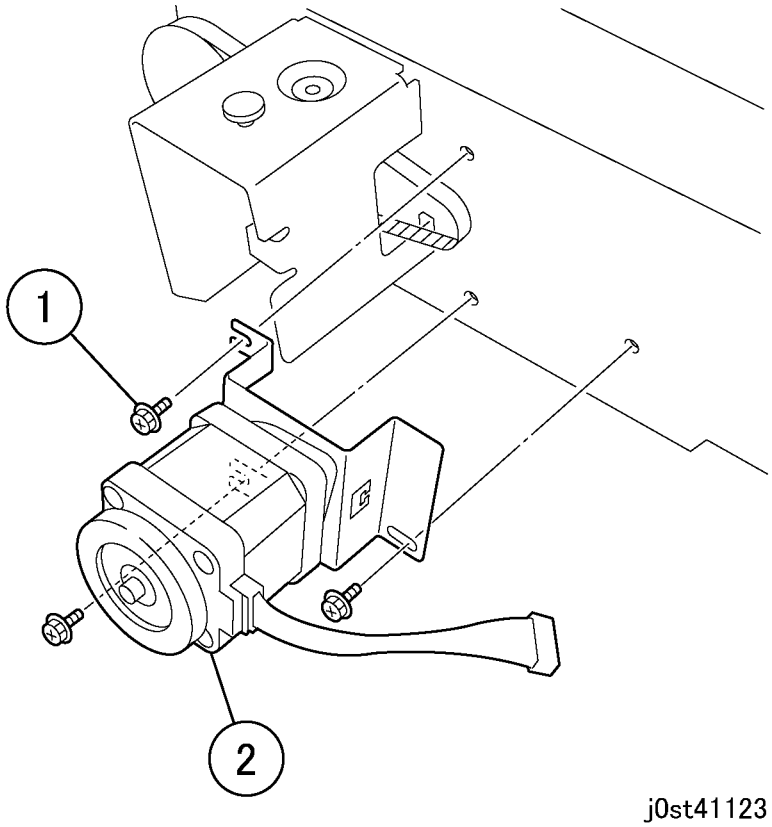


Figure 4 Removing the Carriage Motor Assembly (j0st41123)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.6.1 Exposure Lamp

Parts List on PL 11.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the Platen Cover or DADF.
2. Remove the Platen Glass. (REP 11.1.1)
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.

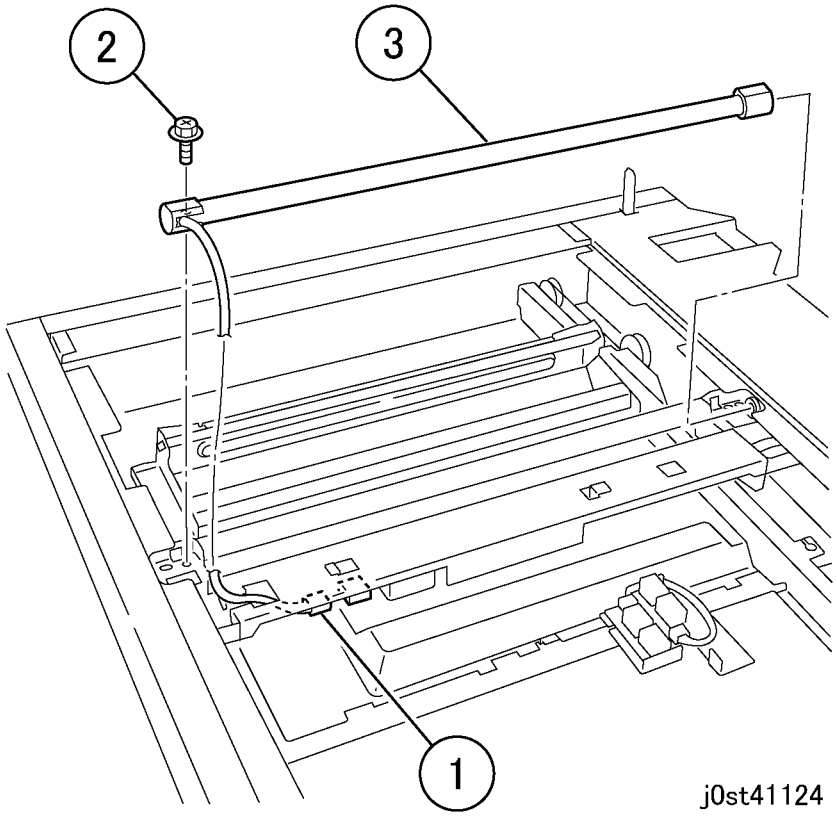


Figure 1 Removing the Exposure Lamp (j0st41124)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.6.2 Lamp Wire Harness

Parts List on PL 11.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the DADF. (REP 15.1.1)
2. Remove the Platen Glass. (REP 11.1.1)

3. Remove the IPS Cover. (Figure 1)
    1. Remove the screws (x7).
    2. Remove the IPS Cover.

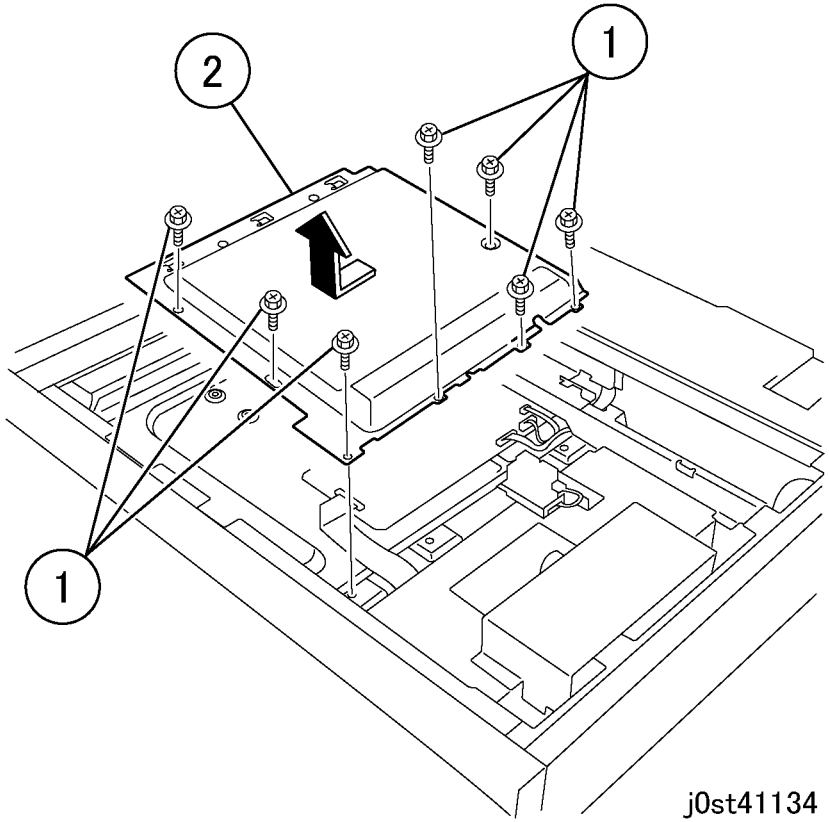


Figure 1 Removing the IPS Cover (j0st41134)

4. Disconnect the connector of the Lamp Wire Harness. (Figure 2)
    1. Disconnect the connector.
    2. Pull the connector out of the hole.
    3. Release the connector from the hook.

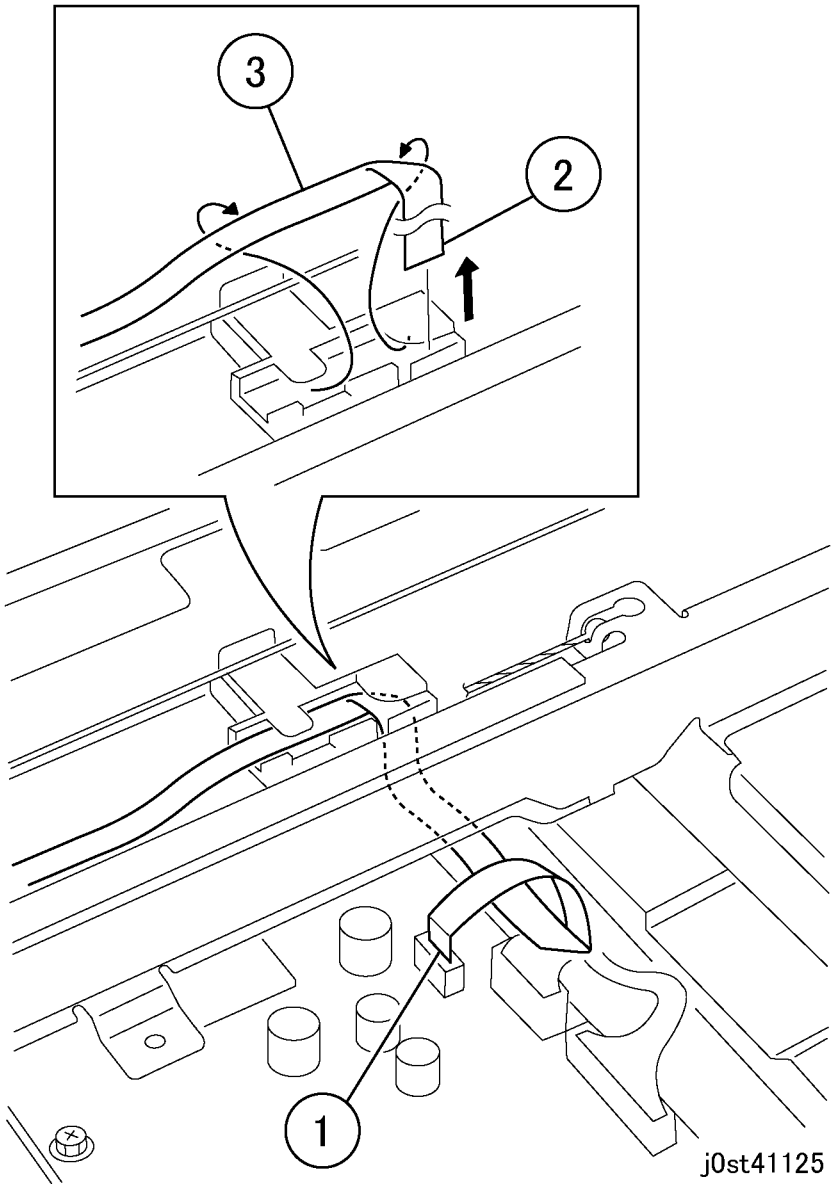


Figure 2 Disconnecting the connector (j0st41125)

5. Remove the Full Rate Carriage. (Figure 3)
    1. Remove the screws (x2).
    2. Remove the Full Rate Carriage.

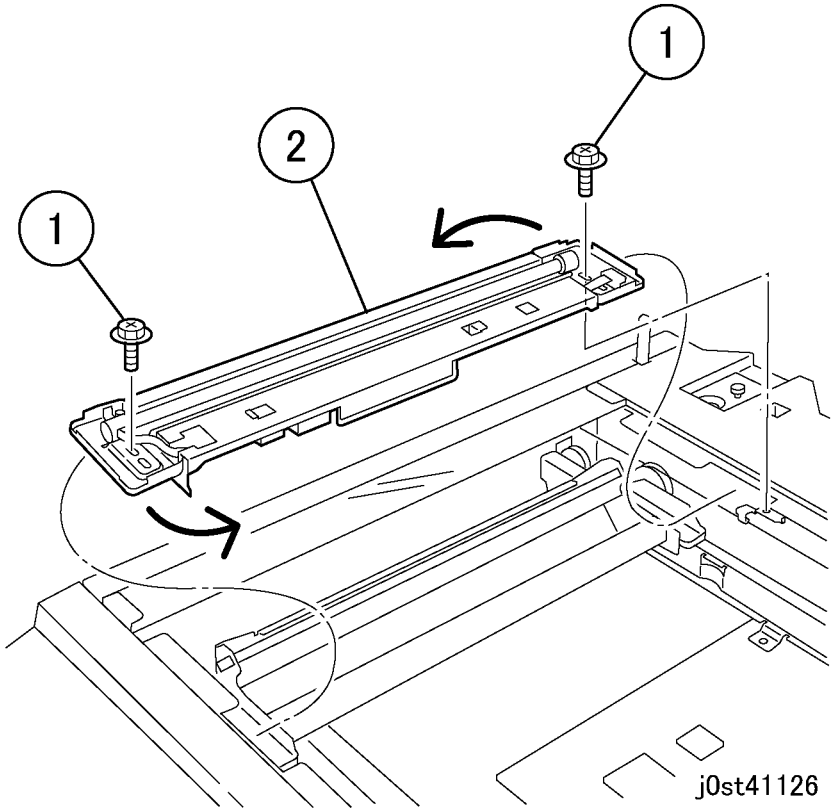


Figure 3 Removing the Full Rate Carriage (j0st41126)

6. Remove the Lamp Wire Harness from the Full Rate Carriage. (Figure 4)
    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.

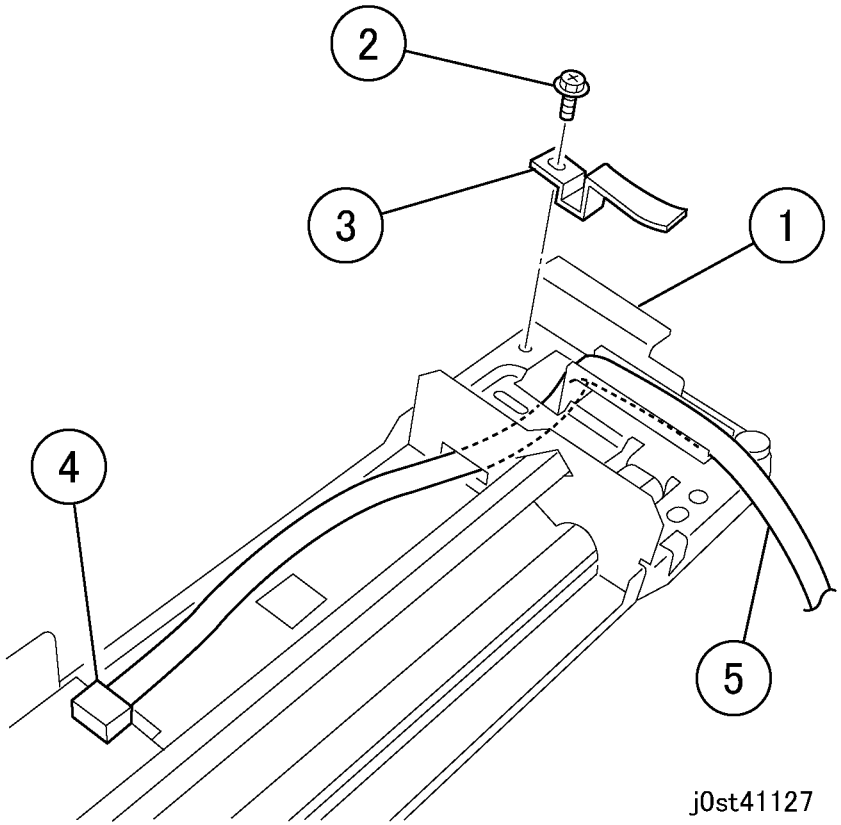


Figure 4 Removing the Lamp Wire Harness (j0st41127)

Replacement

1. 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)*

REP 12.1.1 Tray 3 Feeder

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Pull out Tray 3.
2. Remove the Foot Covers. (Figure 1)
   1. Loosen the screw. (28CPM Model)
   2. Remove the Foot Cover. (28CPM Model)
   3. Loosen the screw.
   4. Remove the Foot Cover.

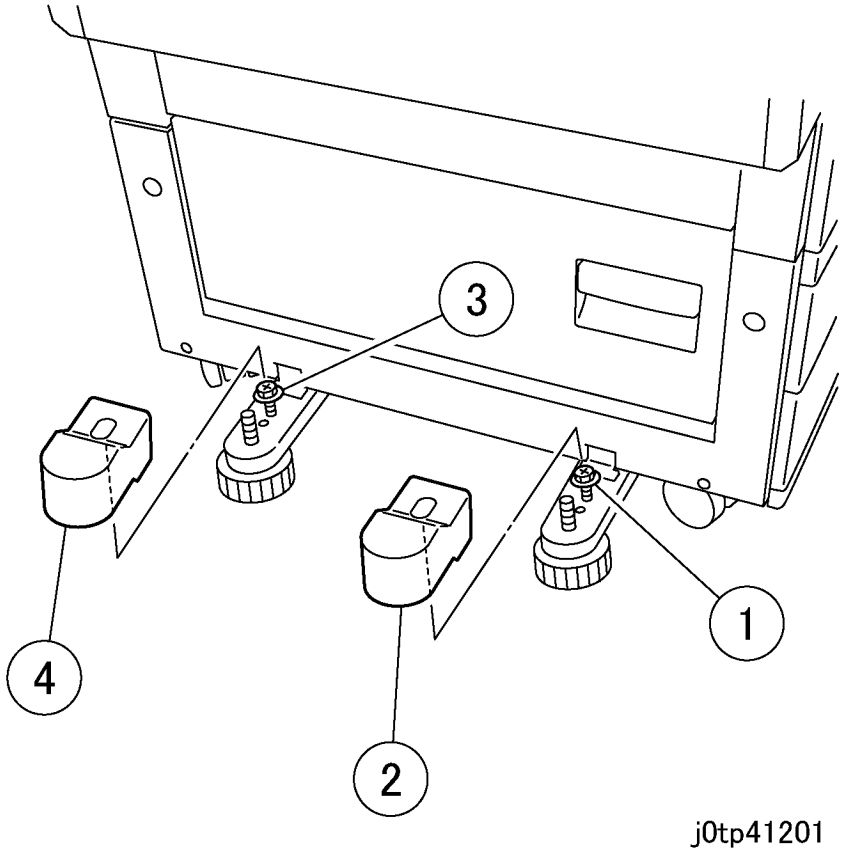


Figure 1 Removing the Foot Covers (j0tp41201)

3. Remove the Left Lower Cover. (Figure 2)
    1. Remove the screws (x2).
    2. Remove the Left Lower Cover.

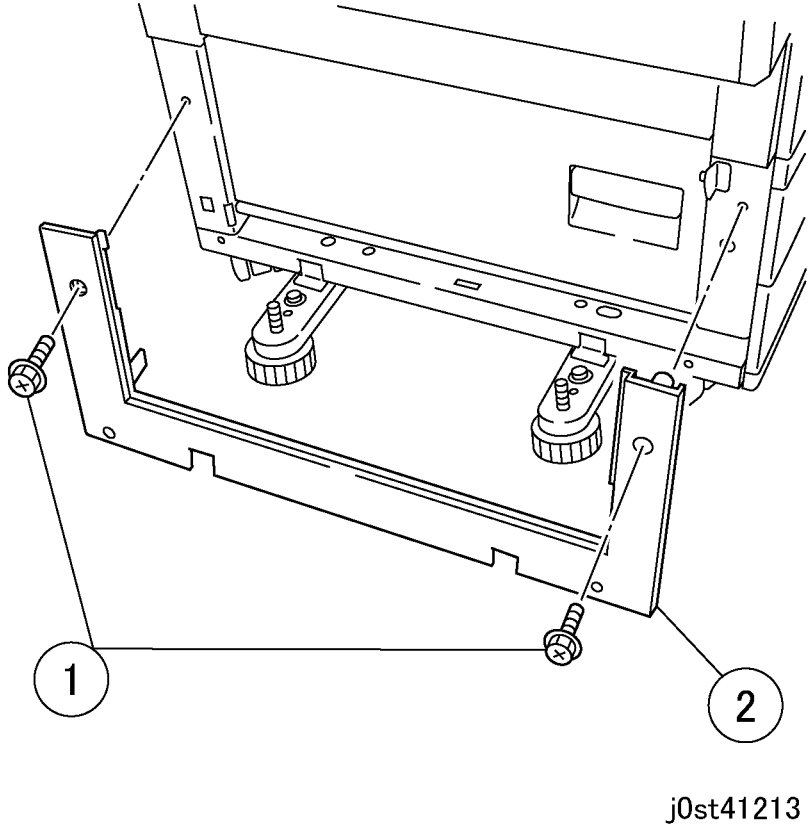


Figure 2 Removing the Left Lower Cover (j0st41213)

4. Open the Left Cover Assembly.

5. Remove the bracket. (Figure 3)
    1. Remove the screw.
    2. Remove the screw.(28CPM Model)
    3. Remove the bracket.

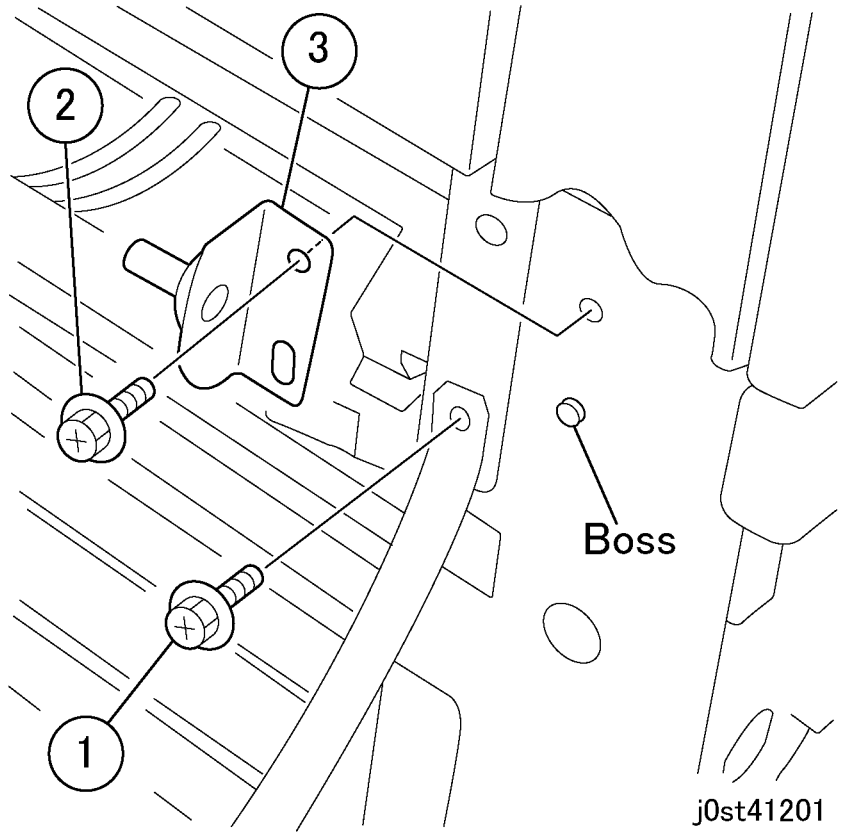


Figure 3 Removing the bracket (j0st41201)

6. Remove the Feed Out Chute. (Figure 4)
   1. Remove the Feed Out Chute.

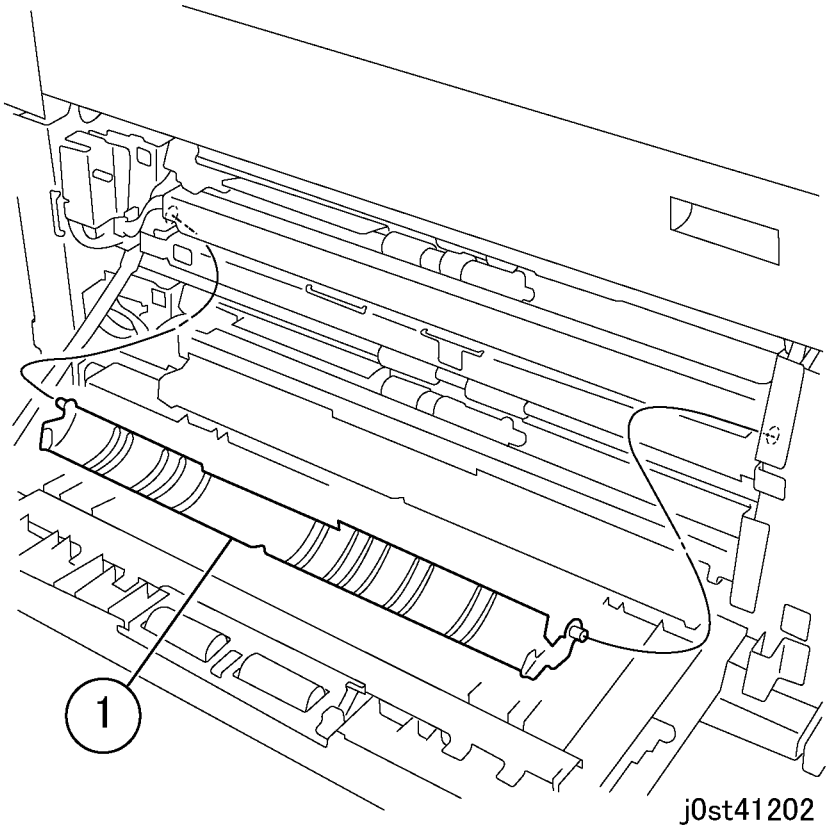


Figure 4 Removing the Feed Out Chute (j0st41202)

7. Disconnect the connector. (Figure 5)
   1. Disconnect the connector.
   2. Release the clamp to remove the wire.

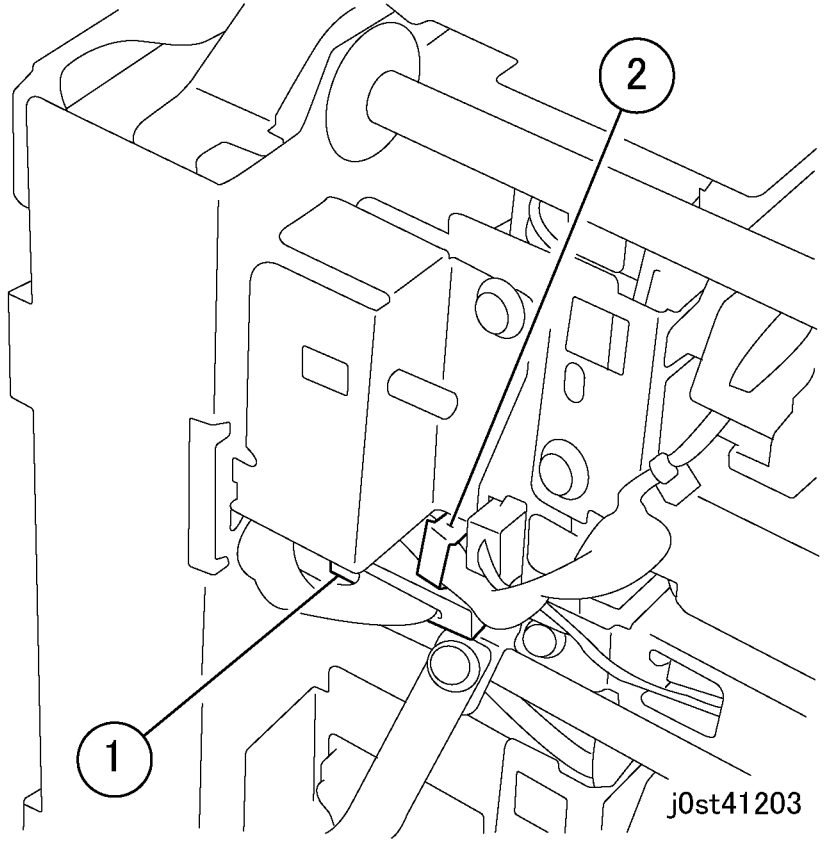


Figure 5 Disconnecting the connector (j0st41203)

8. Remove the Tray 3 Feeder. (Figure 6)
   1. Remove the screws (x2).
   2. Remove the Tray 3 Feeder.

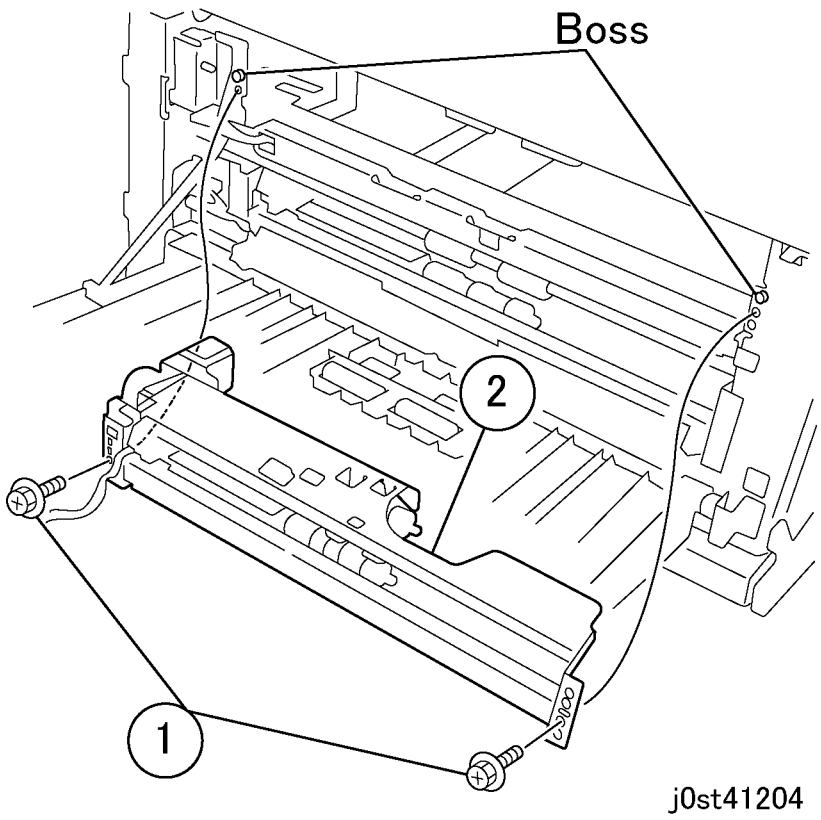


Figure 6 Removing the Tray 3 Feeder (j0st41204)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   Tray 3 “Chain Link:954-802 Tray Feed Counter Tray3-1]”

REP 12.1.2 Tray 4 Feeder

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the “Stored Documents” lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that “Ready to Print/Send” is displayed on the Control Panel display.

1. Pull out Tray 3/4.

2. Remove the Foot Covers. (Figure 1)
    1. Loosen the screw.(28CPM Model)
    2. Remove the Foot Cover.(28CPM Model)
    3. Loosen the screw.
    4. Remove the Foot Cover.

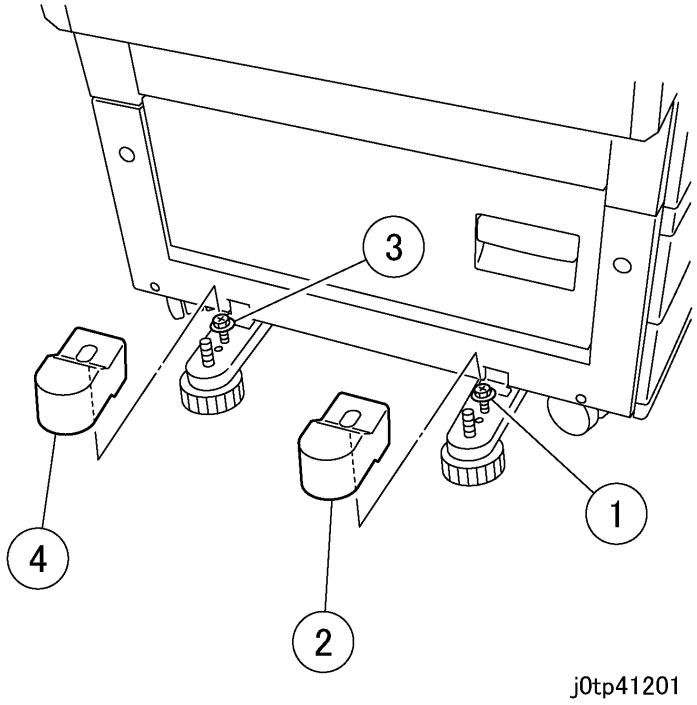


Figure 1 Removing the Foot Covers (j0tp41201)

3. Remove the Left Lower Cover. (Figure 2)
    1. Removing the screws (x2).
    2. Removing the Left Lower Cover.

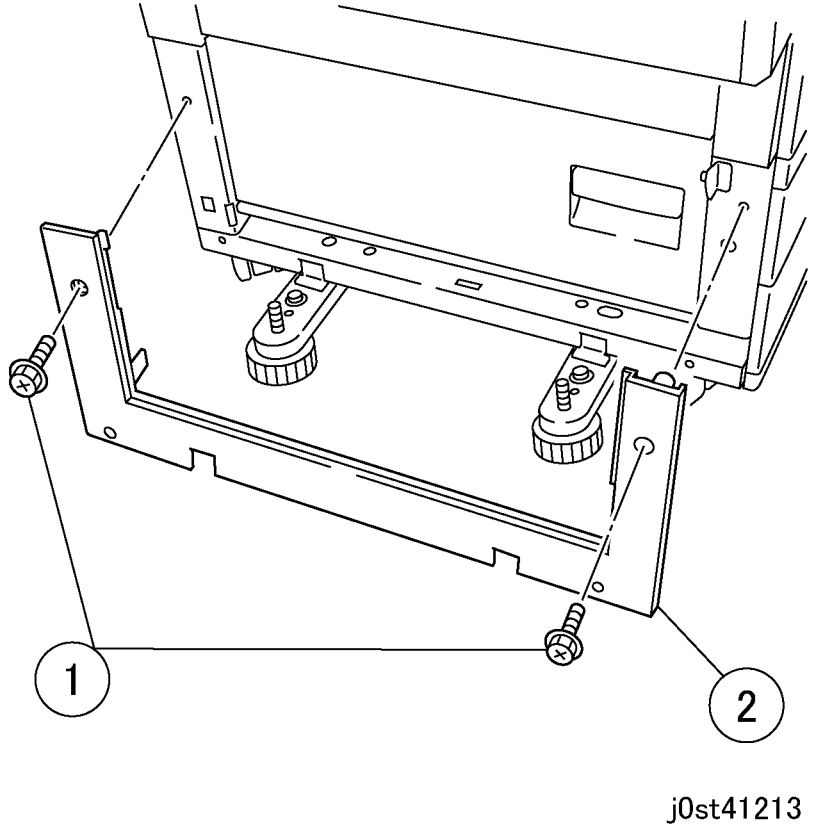


Figure 2 Removing the Left Lower Cover (j0st41213)

4. Open the Left Cover Assembly.

5. Remove the screws. (Figure 3)
    1. Remove the screws.

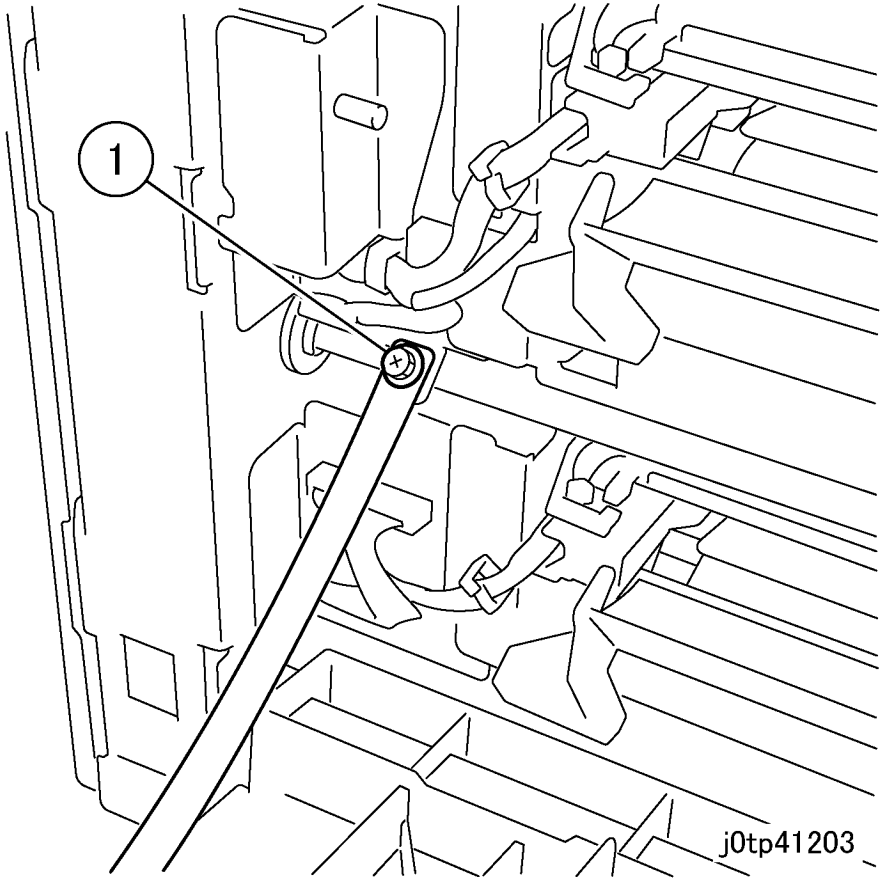


Figure 3 Removing the screws (j0tp41203)

6. Remove the Feed Out Chute. (Figure 4)
    1. Remove the Feed Out Chute.

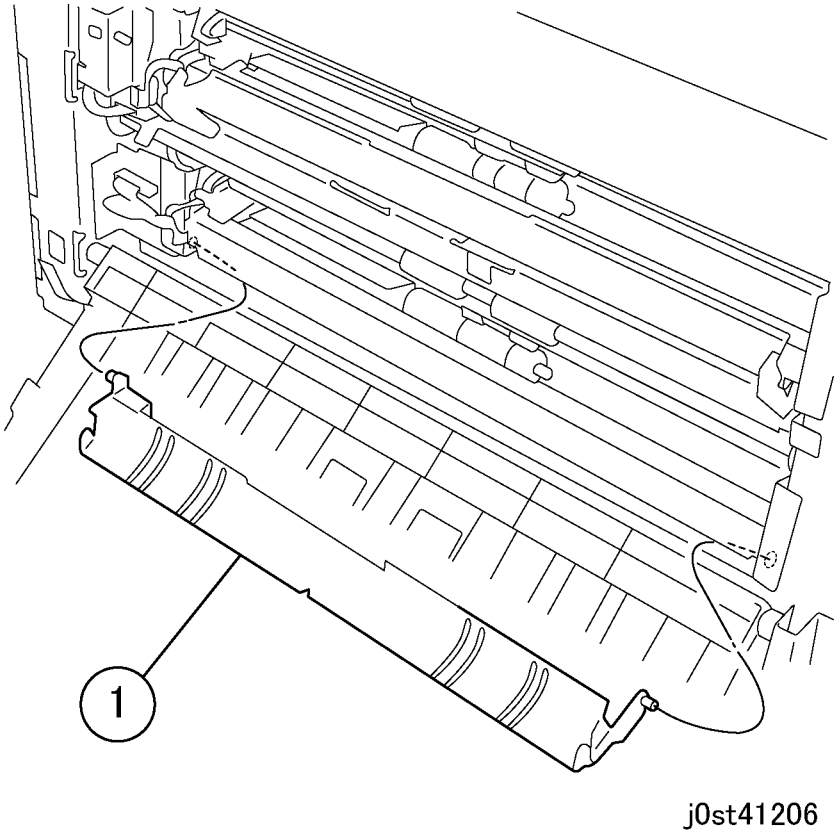


Figure 4 Removing the Feed Out Chute (j0st41206)

7. Disconnect the connector. (Figure 5)
    1. Disconnect the connector.
    2. Release the clamp to remove the wire.

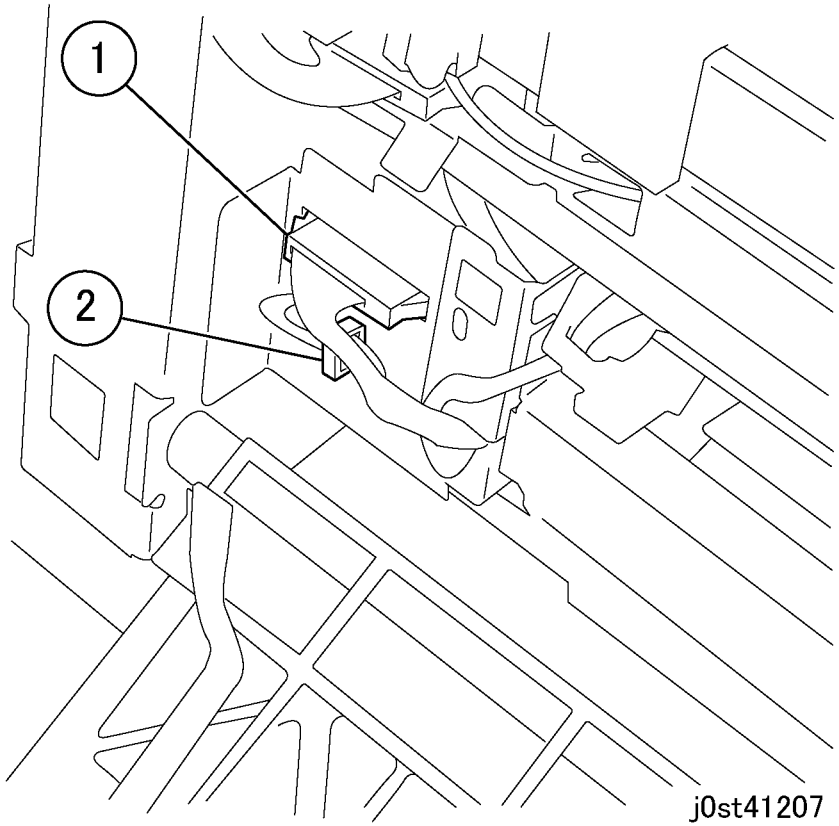


Figure 5 Disconnecting the connector (j0st41207)

8. Remove the Tray 4 Feeder. (Figure 6)
    1. Remove the screws (x2).
    2. Remove the Tray 4 Feeder.

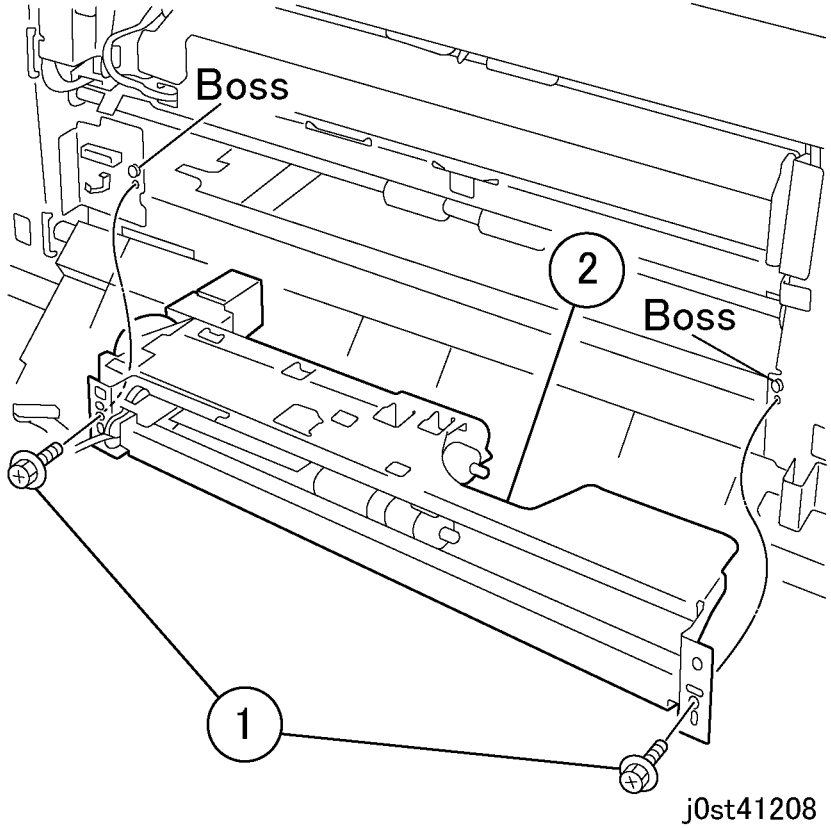


Figure 6 Removing the Tray 4 Feeder (j0st41208)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   Tray 4 “Chain Link:954-803 Tray Feed Counter Tray4-1]”

REP 12.3.1 Feed/Retard/Nudger Roll

Parts List on PL 12.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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 3/4 Feeder.
   - Tray 3 Feeder (REP 12.1.1)
   - Tray 4 Feeder (REP 12.1.2)
3. Move the Front Chute in the direction of the arrow. (Figure 1)
   1. Move the Front Chute.

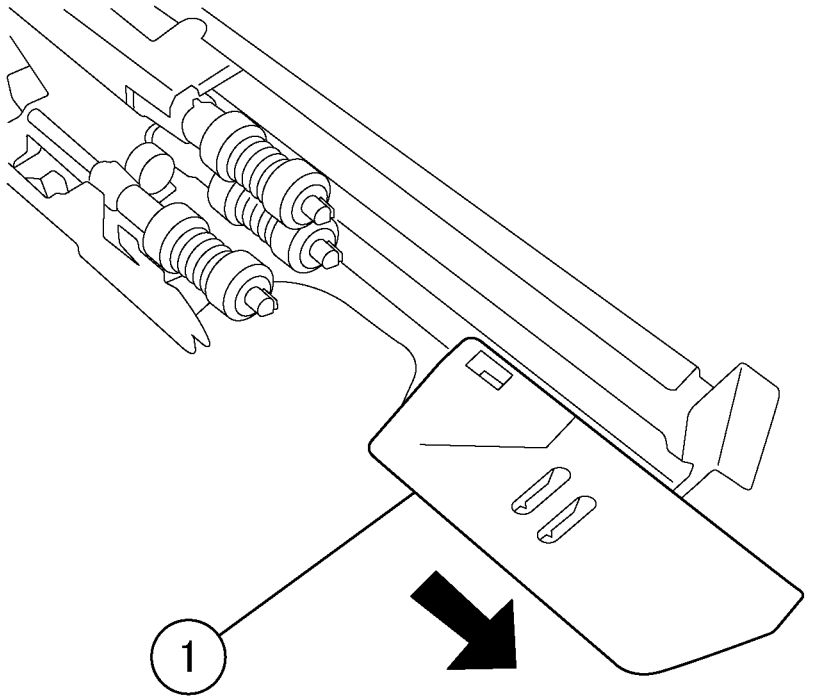


Figure 1 Moving the Front Chute (j0st41209)

4. Remove the Feed/Retard/Nudger Roll. (Figure 2)
   1. Release the hooks (x3) to remove the Feed/Retard/Nudger Roll.

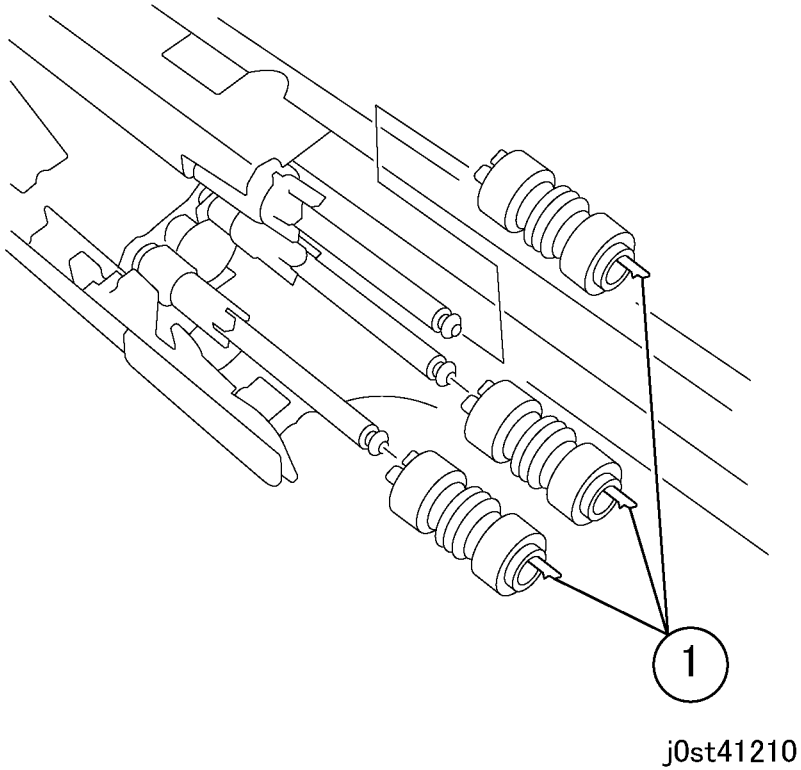


Figure 2 Removing the Feed/Retard/Nudger Roll (j0st41210)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   Tray 3 “Chain Link:954-802 Tray Feed Counter Tray3-1]”
   Tray 4 “Chain Link:954-803 Tray Feed Counter Tray4-1]”

REP 12.6.1 2TM PWB

Parts List on PL 12.6

Clean

Replacement

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the “Stored Documents” lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that “Ready to Print/Send” is displayed on the Control Panel display.

1. When replacing the 2TM PWB, set the 2TM PWB Dip Switch to the position as shown.
   - 28CPM Model (Figure 1)

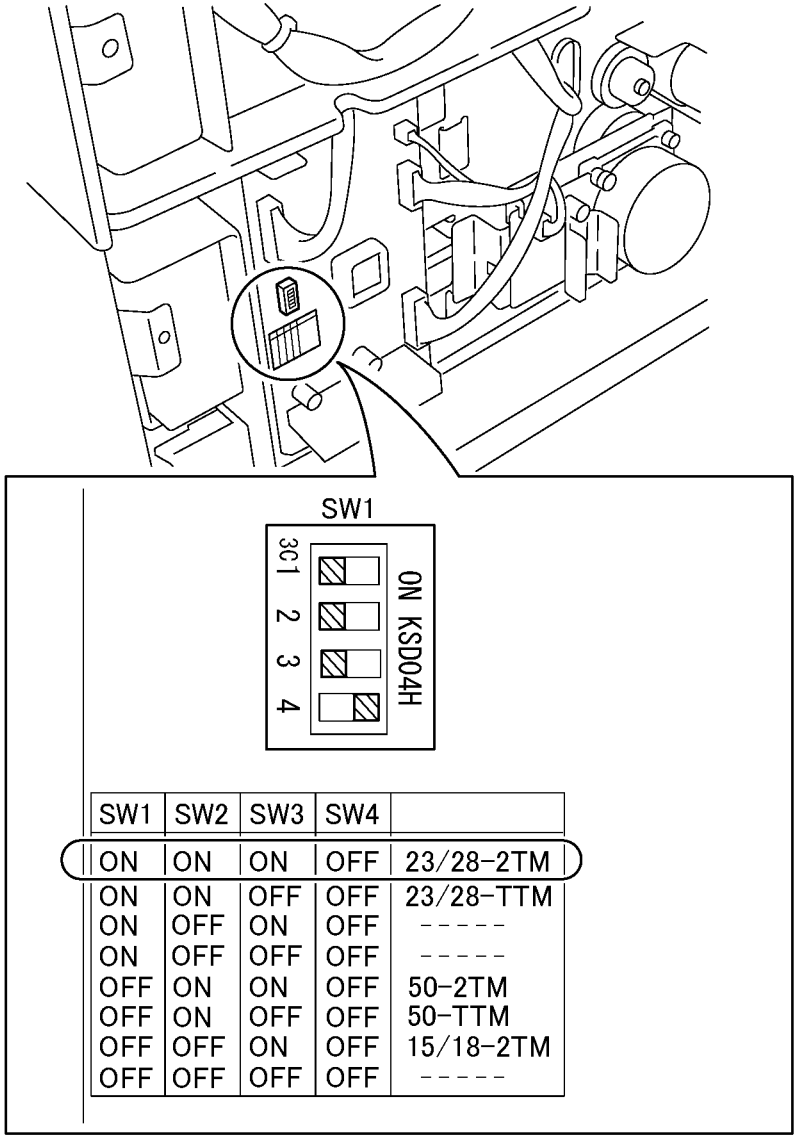


Figure 1 Setting the Dip Switch (j0st41211)

   - 33CPM Model (Figure 2)

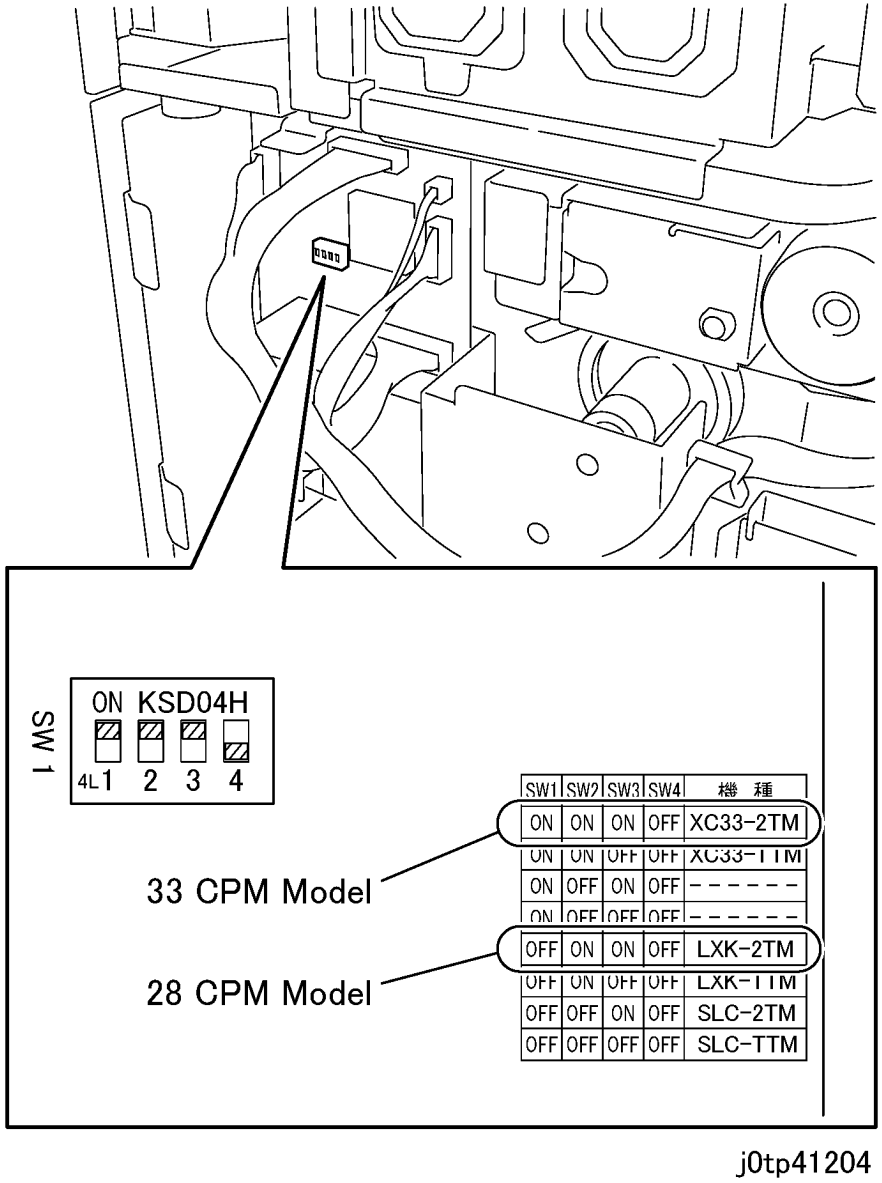


Figure 2 Setting the Dip Switch (j0tp41204)

REP 13.1.1 Tray 3 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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Pull out Tray 3.
2. Remove the paper from Tray 3.
3. Open the Left Cover Assembly.
4. Remove the Tray 3 Assembly. (Figure 1)
   1. Remove the screw.
   2. Slide the stopper.
   3. Remove the Tray 3 Assembly.

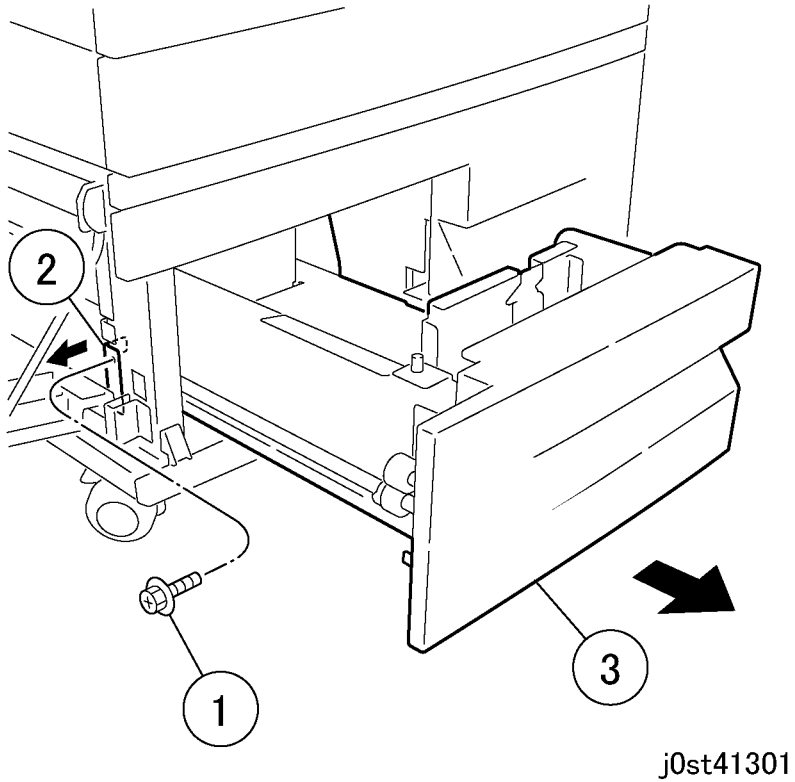


Figure 1 Removing the Tray 3 Assembly (j0st41301)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.1.2 Tray 4 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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Pull out Tray 4.
2. Remove the paper from Tray 4.
3. Remove the Tray 4 Assembly. (Figure 1)
   1. Remove the screws (x2).
   2. Push in Tray 4 Transport Assembly.
   3. Remove the screw.
   4. Remove the stopper.
   5. Remove the Tray 4 Assembly.

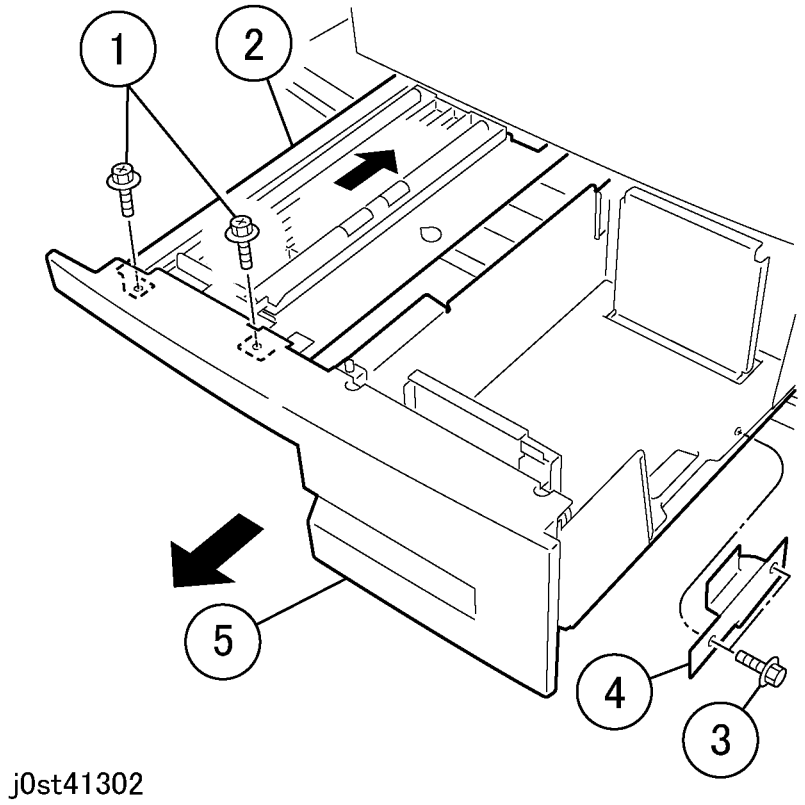


Figure 1 Removing the Tray 4 Assembly (j0st41302)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.3.1 Front/Rear Tray Cable

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Tray 4 Assembly. (REP 13.1.2)
2. Remove the Tray 4 Cover together with the frame. (Figure 1)
   1. Remove the screws (x4).
   2. Remove the Tray 4 Cover together with the frame.

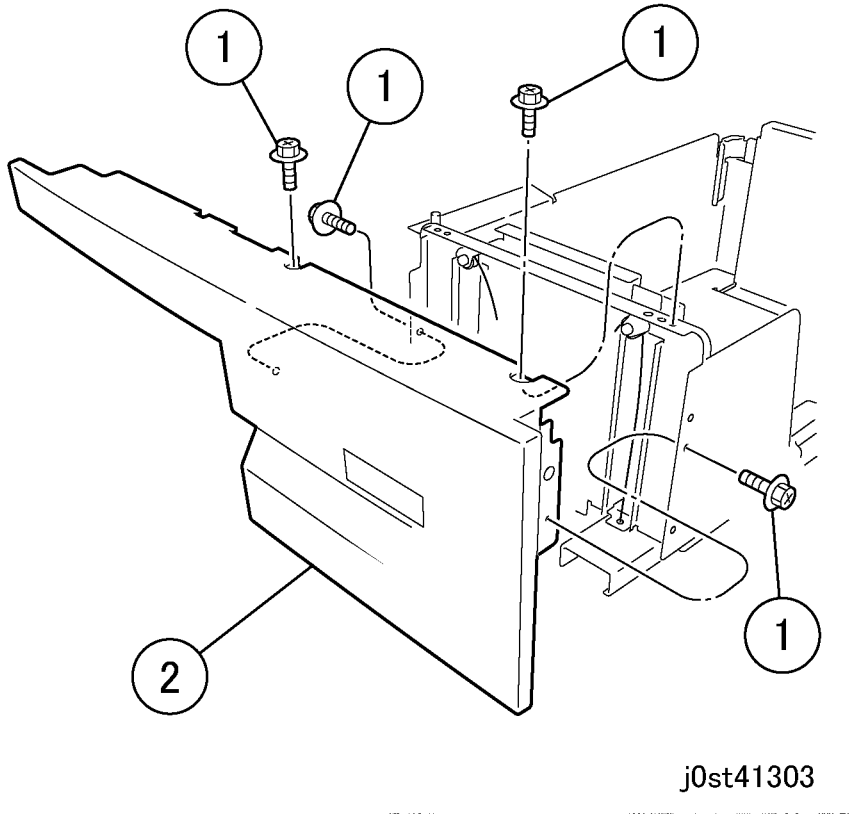


Figure 1 Removing the Tray 4 Cover (j0st41303)

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.

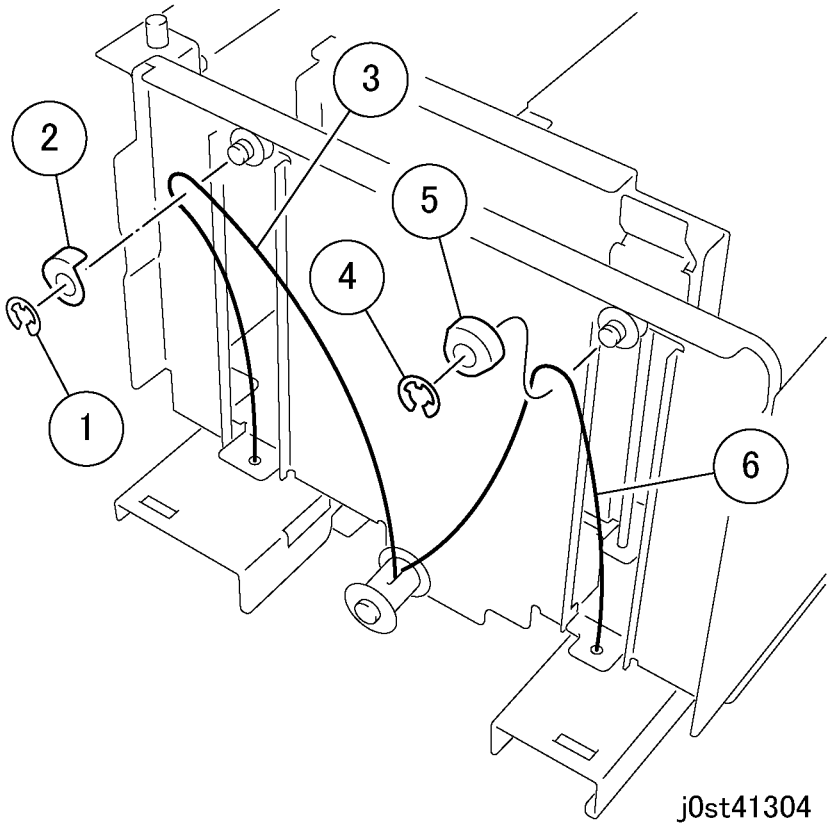


Figure 2 Removing the Tray Cable (j0st41304)

4. Remove the Left Shaft Assembly to remove the Tray Cable. (Figure 3)
   1. Remove the E-Clip.
   2. Slide the bearings (x2).
   3. Remove the Lift Shaft Assembly.

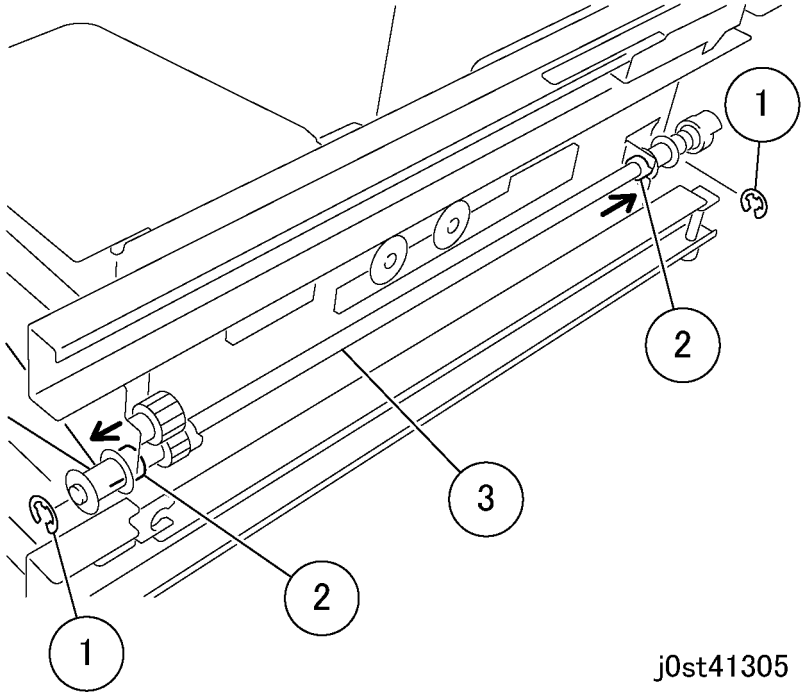


Figure 3 Removing the Left Shaft Assembly to remove the Tray Cable (j0st41305)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 13.4.1 Tray 4 Feeder

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Tray 3 Assembly. (REP 13.1.2)
2. Remove the Tray 4 Assembly. (REP 13.1.2)
3. Remove the Tray 4 Transport Assembly. (Figure 1)
   1. Remove the Tray 4 Transport Assembly.

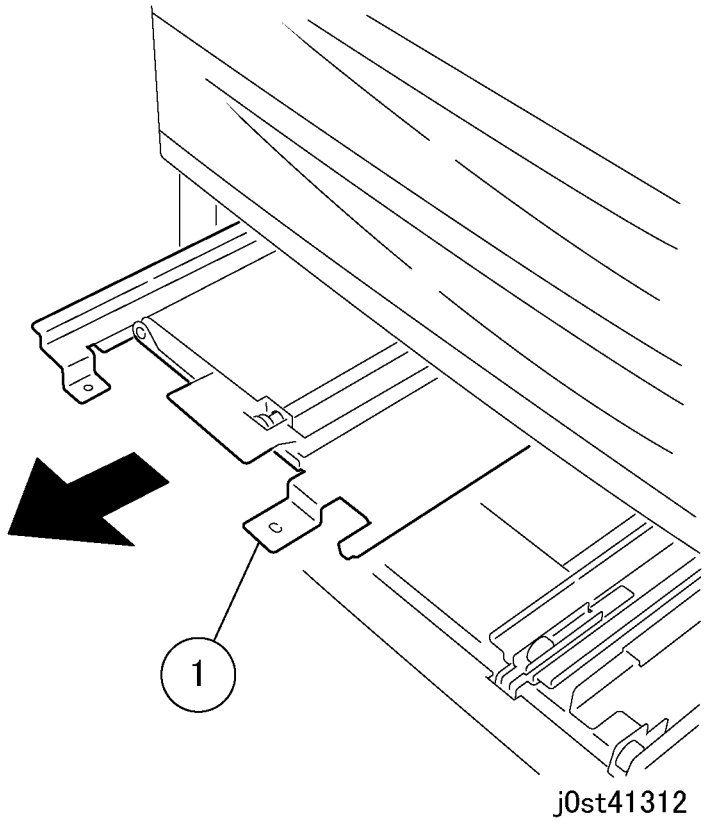


Figure 1 Removing the Tray 4 Transport Assembly (j0st41312)

4. Remove the Stud Bracket. (Figure 2)
    1. Remove the screw.
    2. Remove the Stud Bracket.

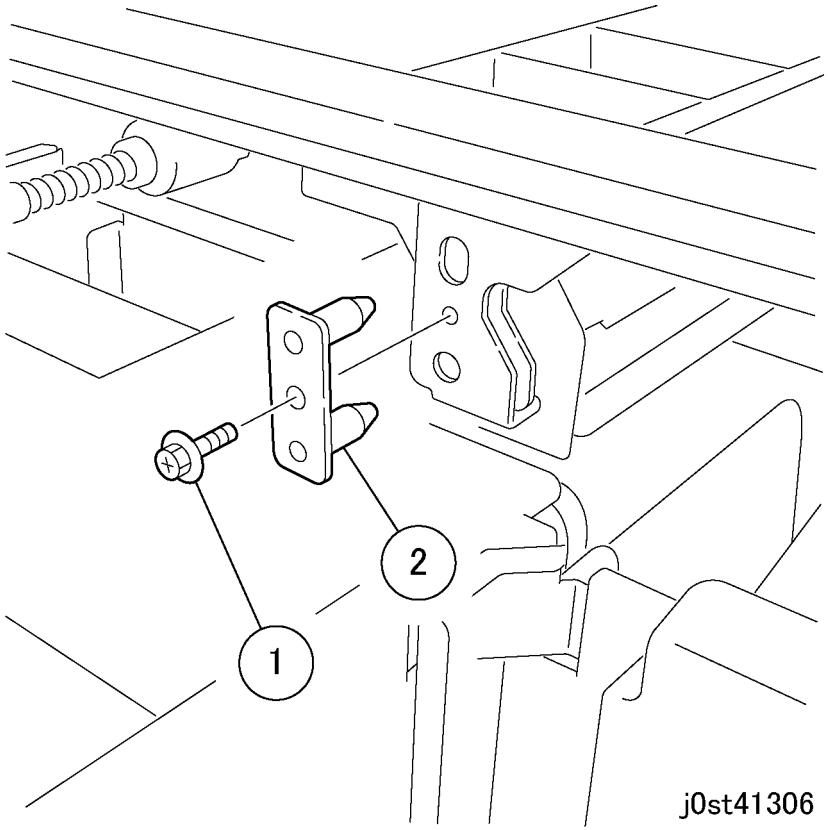


Figure 2 Removing the Stud Bracket (j0st41306)

5. Remove the Tray 4 Feeder Assembly. (Figure 3)
    1. Disconnect the connectors (x2).
    2. Remove the screws (x2).
    3. Remove the Tray 4 Feeder Assembly.

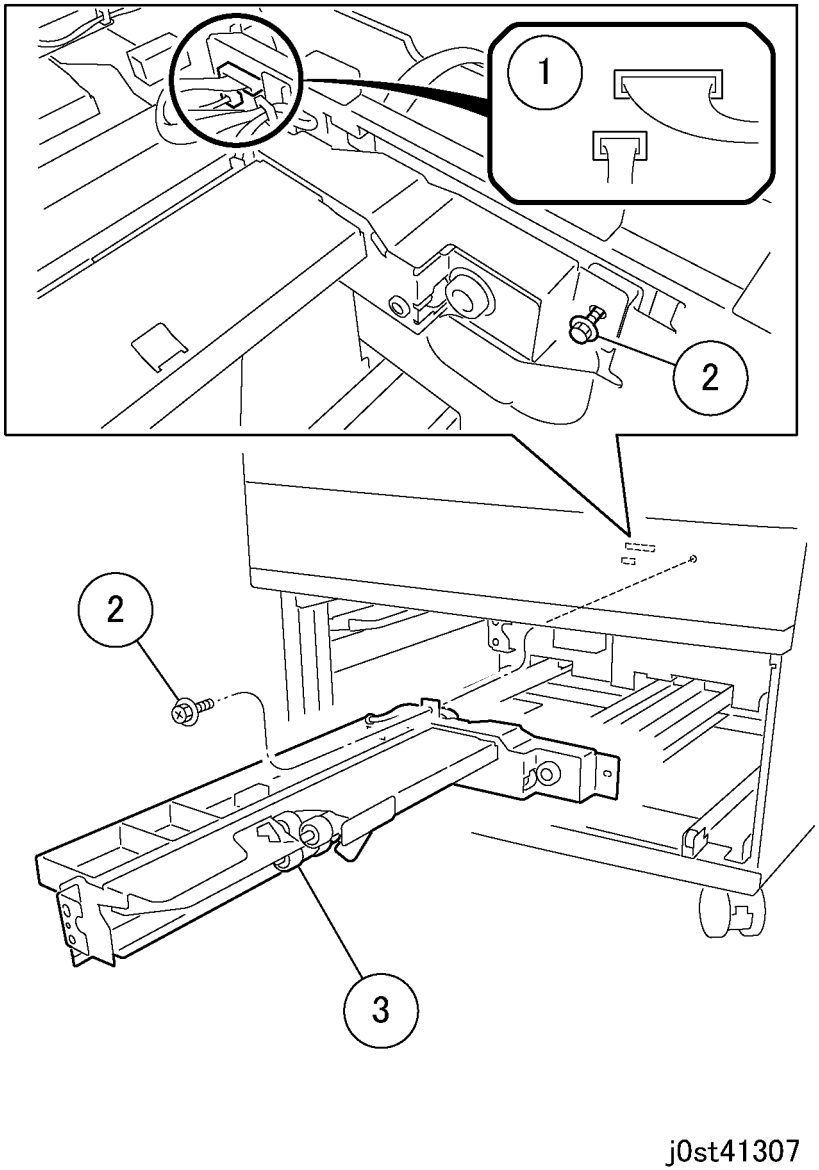


Figure 3 Removing the Tray 4 Feeder Assembly (j0st41307)

6. Remove the Tray 4 Feeder. (Figure 4)
   1. Remove the screws (x2).
   2. Remove the Upper Chute.
   3. Remove the screws (x2).
   4. Remove the Lower Chute.

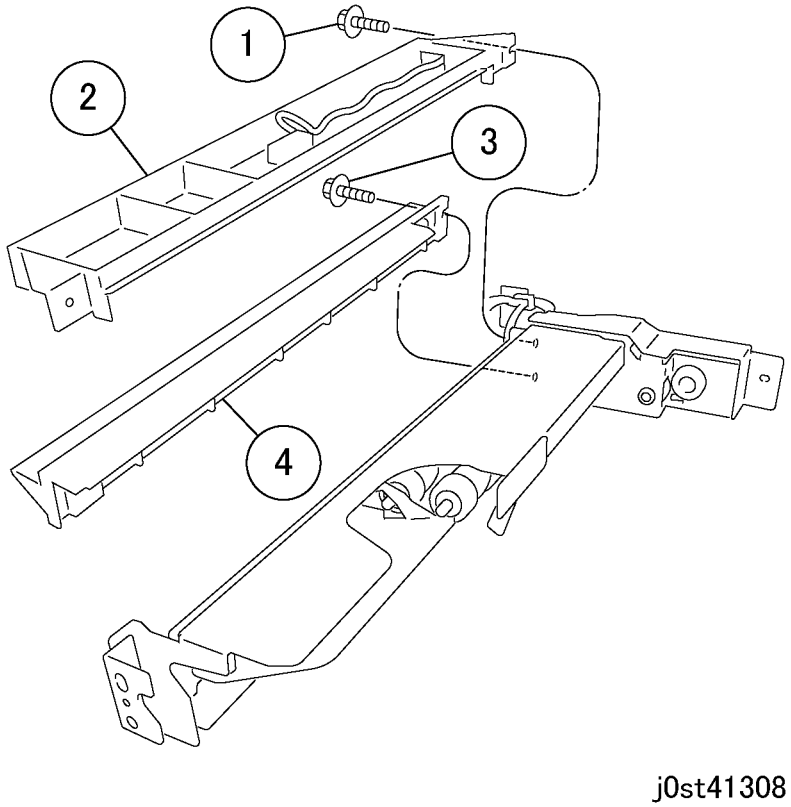


Figure 4 Removing the Lower Chute (j0st41308)

7. Remove the Tray 4 Feeder. (Figure 5)
   1. Remove the screws (x2).
   2. Remove the bracket.
   3. Remove the screw.
   4. Remove the bracket.
   5. Remove the screw.
   6. Remove the bracket.

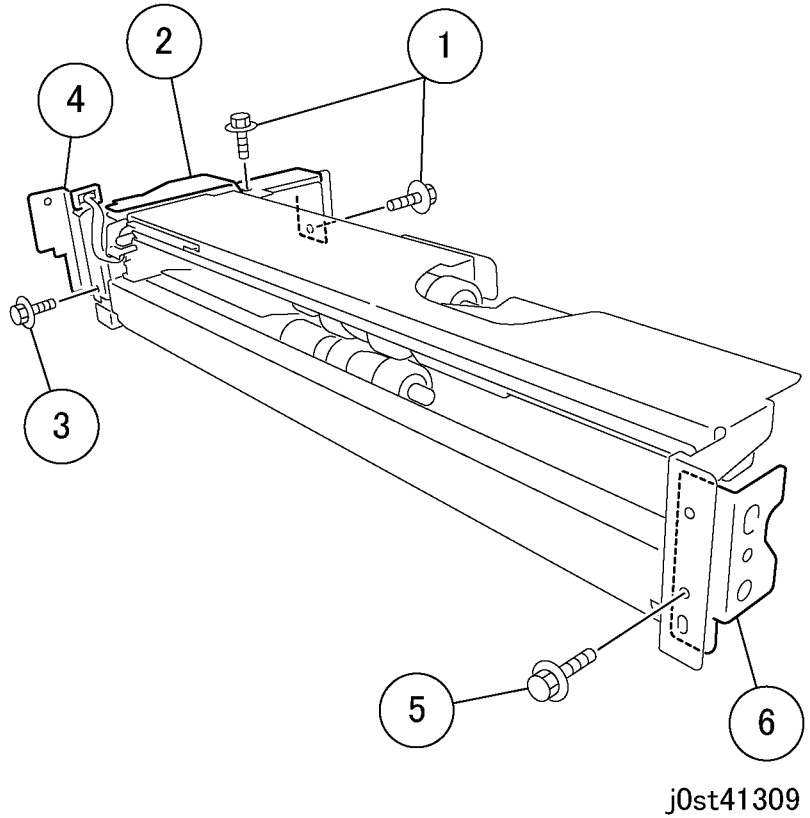


Figure 5 Removing the Tray 4 Feeder (j0st41309)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   HFSI Chain Link 954-803

REP 13.5.1 Tray 3 Feeder

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove Tray 3.
2. Open the Left Cover.
3. Remove the Upper/Lower Chute. (Figure 1)
   1. Remove the Upper Chute.
   2. Remove the Lower Chute.

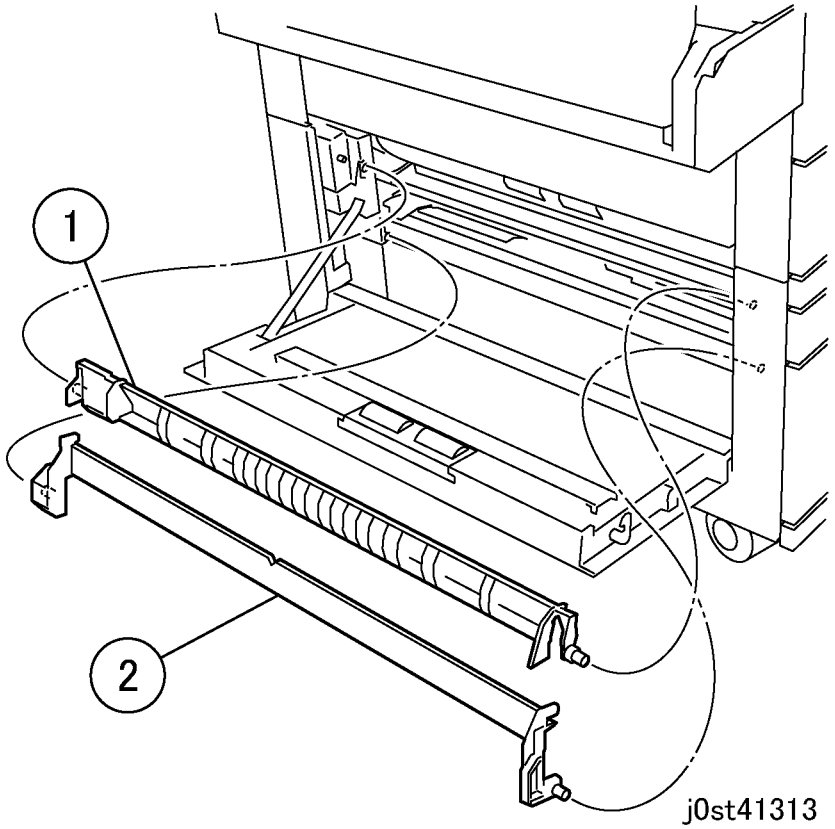


Figure 1 Removing the Upper/Lower Chute (j0st41313)

4. Remove the screw. (Figure 2)
    1. Remove the screw.

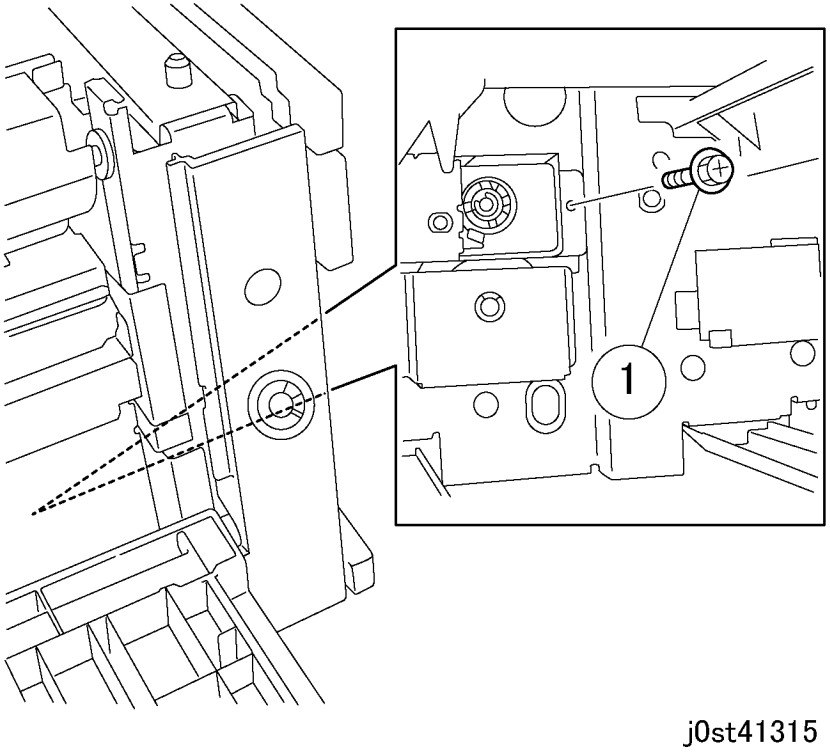


Figure 2 Removing the screw (j0st41315)

5. Remove the Tray 3 Feeder Assembly. (Figure 3)
    1. Remove the screws.
    2. Release the Wire Harness from the clamp.
    3. Disconnect the connector.
    4. Remove the screws (x2).
    5. Remove the Tray 3 Assembly.

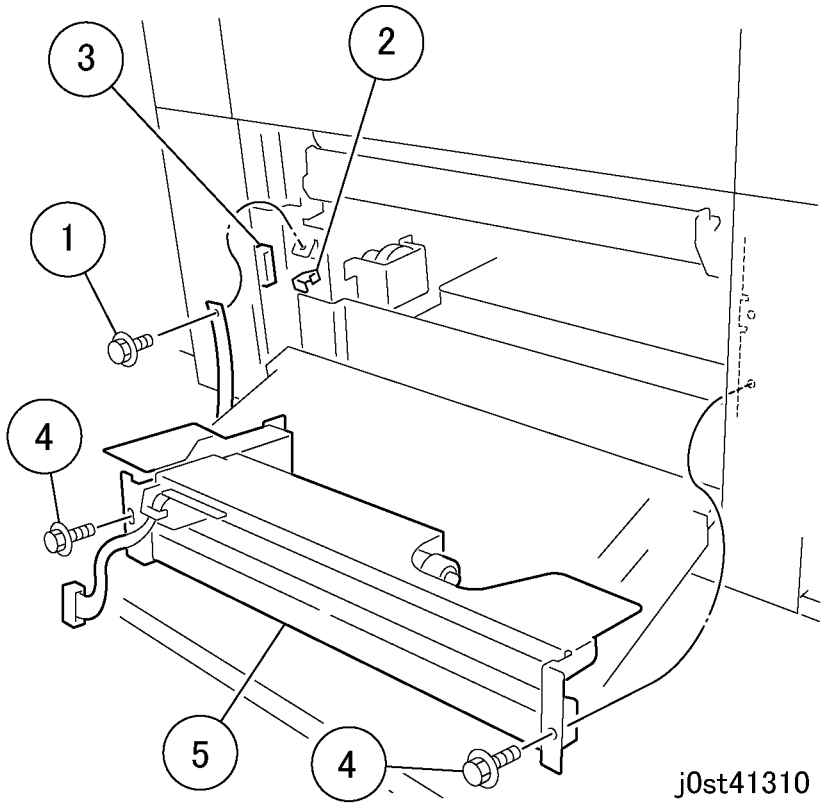


Figure 3 Removing the Tray 3 Assembly (j0st41310)

6. Remove the Tray 3 Feeder. (Figure 4)
    1. Remove the screws (x2).
    2. Remove the bracket.

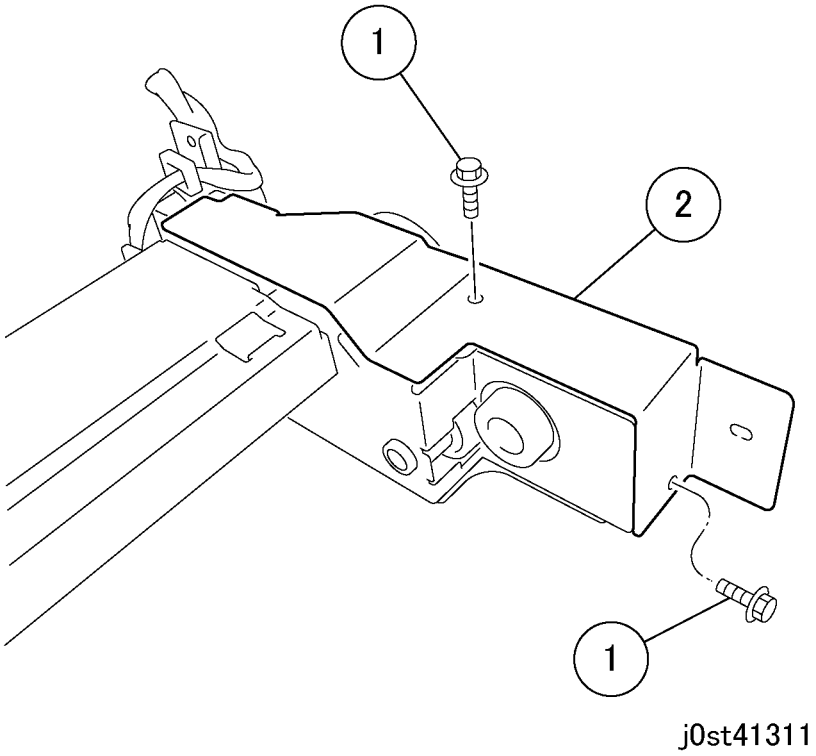


Figure 4 Removing the Tray 3 Feeder (j0st41311)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   Chain Link: 954-802

REP 13.6.1 Feed/Retard/Nudger Roll

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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, Retaed and Nudger Roll to be replaced.
    a. Pull out tray and remove paper.
    b. Ensure tray is pulled out to the stop.
    c. Cift end and pull out to remove.
2. Remove the Tray 3/4 Feeder.
    - Tray 3 Feeder (REP 13.1.1)
    - Tray 4 Feeder (REP 13.1.2)

3. Move the Front Chute in the direction of the arrow. (Figure 1)
   1. Move the Front Chute.

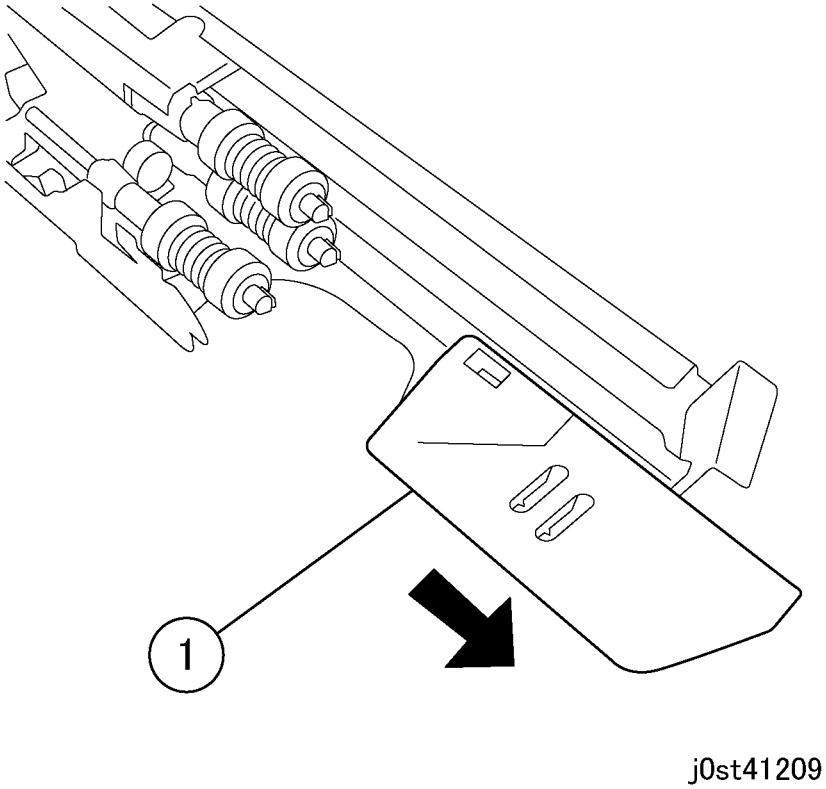


Figure 1 Moving the Front Chute (j0st41209)

4. Remove the Feed/Retard/Nudger Roll. (Figure 2)
   1. Release the hooks (x3) to remove the Feed Roll/Retard/Nudger Roll.

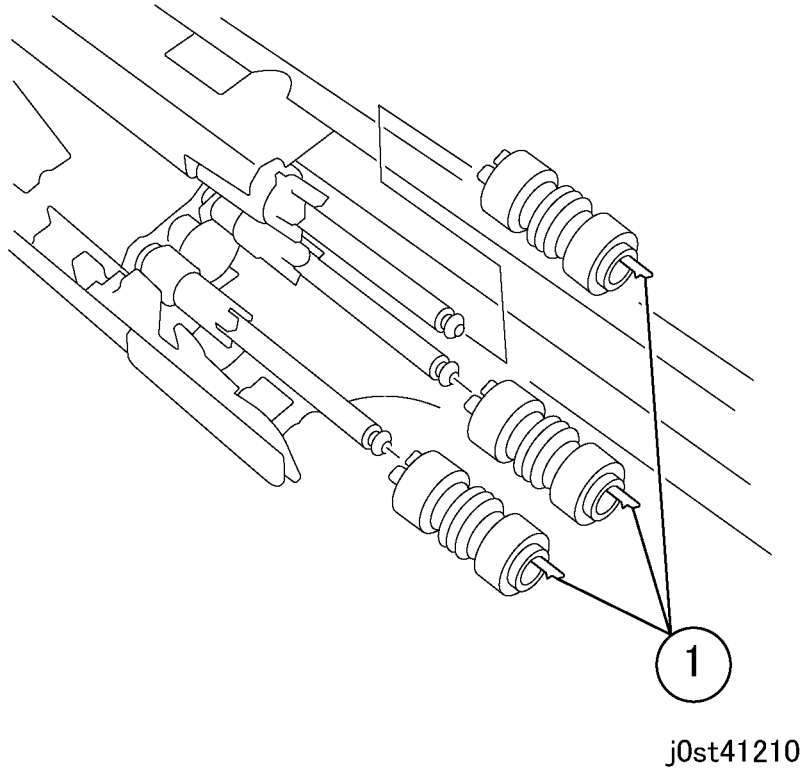


Figure 2 Removing the Feed/Retard/Nudger Roll (j0st41210)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the counter.
   Tray 3 “Chain Link:954-802 Tray Feed Counter Tray3-1]”
   Tray 4 “Chain Link:954-803 Tray Feed Counter Tray4-1]”

REP 13.8.1 TTM PWB

Parts List on PL 13.8

Replacement

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. When replacing the TTM PWB, set the TTM PWB Dip Switch to the position as shown.
   - 28CPM Model (Figure 1)

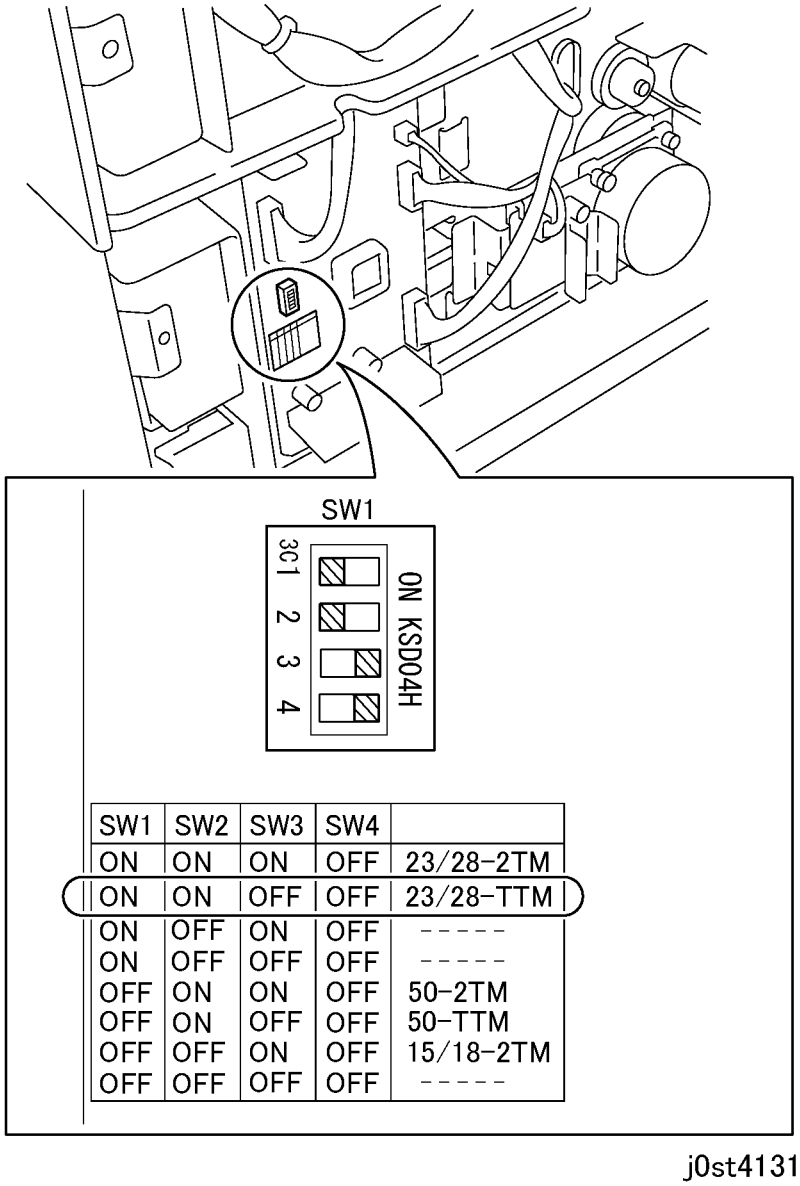


Figure 1 Setting the Dip Switch (j0st41314)

- 33CPM Model (Figure 2)

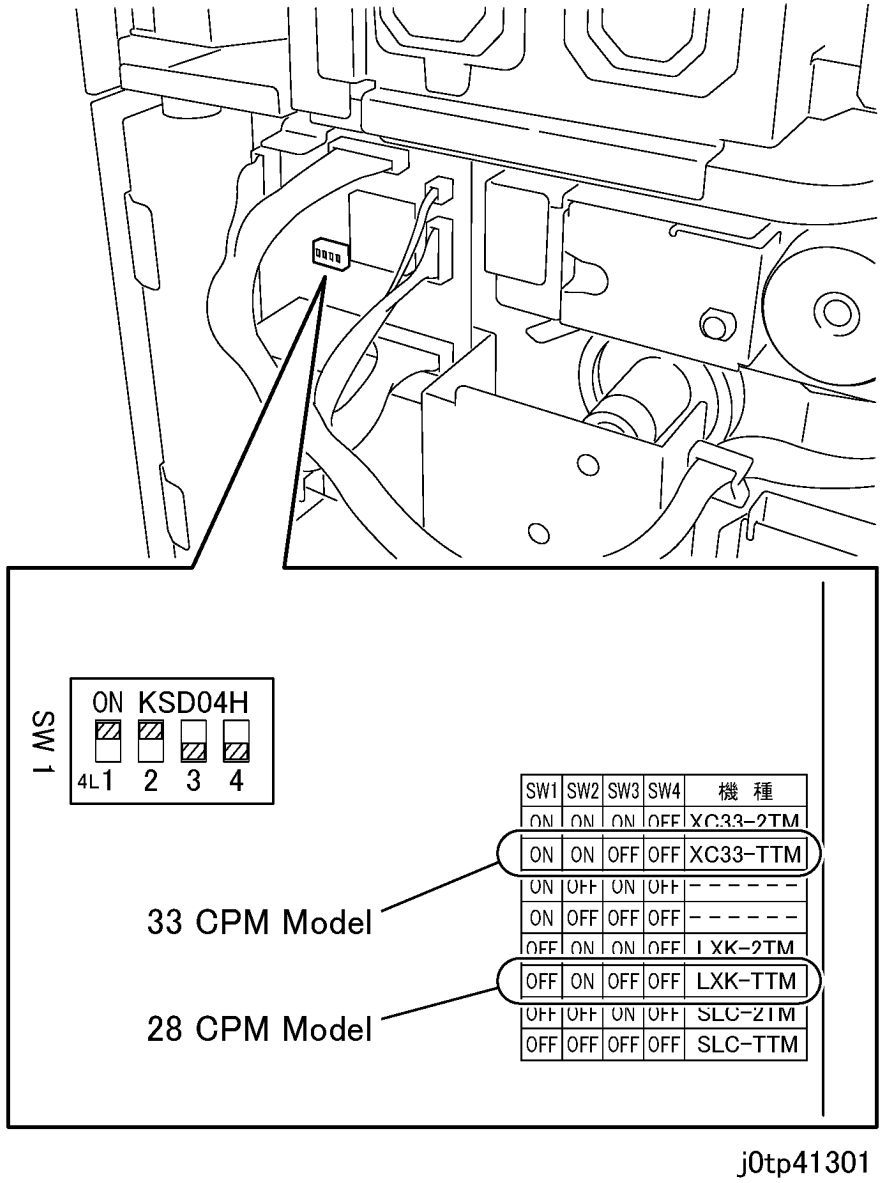


Figure 2 Setting the Dip Switch (j0tp41301)

REP 15.1.1 DADF

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the “Stored Documents” lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that “Ready to Print/Send” is displayed on the Control Panel display.

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.

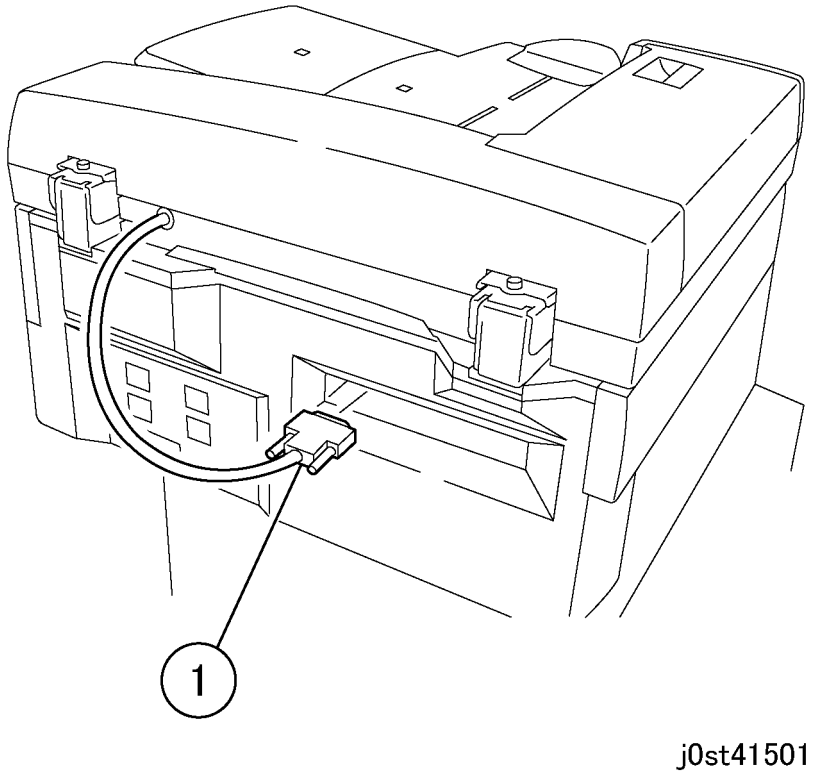


Figure 1 Disconnecting the connector (j0st41501)

2. Remove the DADF. (Figure 2)
    1. Remove the Knob Screws (x2).
    2. Remove the DADF.

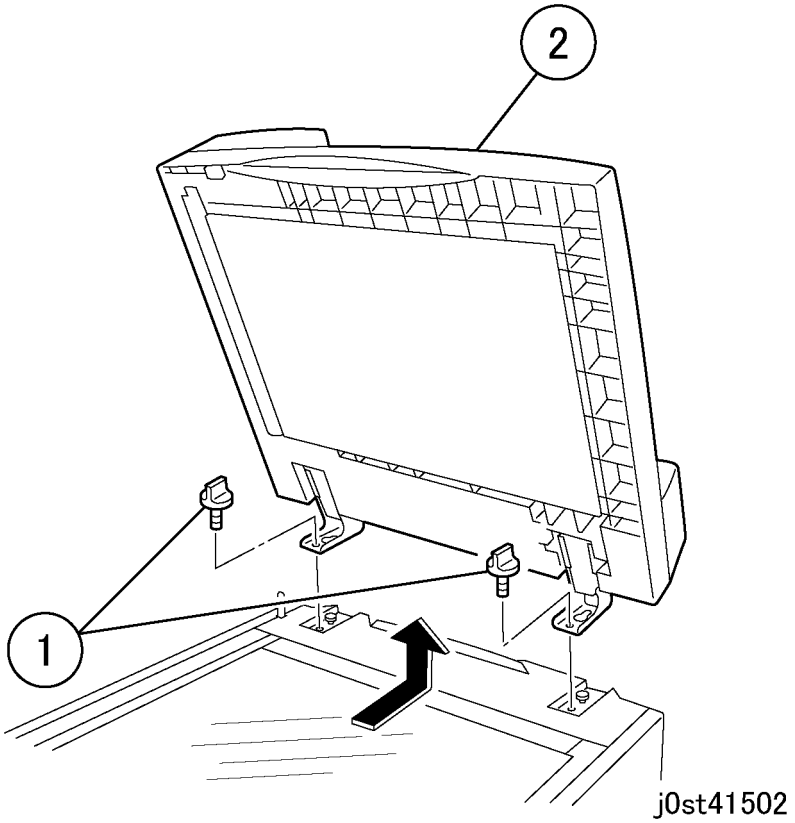


Figure 2 Removing the DADF (j0st41502)

Replacement

1. When installing the DADF, push the DADF to the front, then secure. (Figure 3)

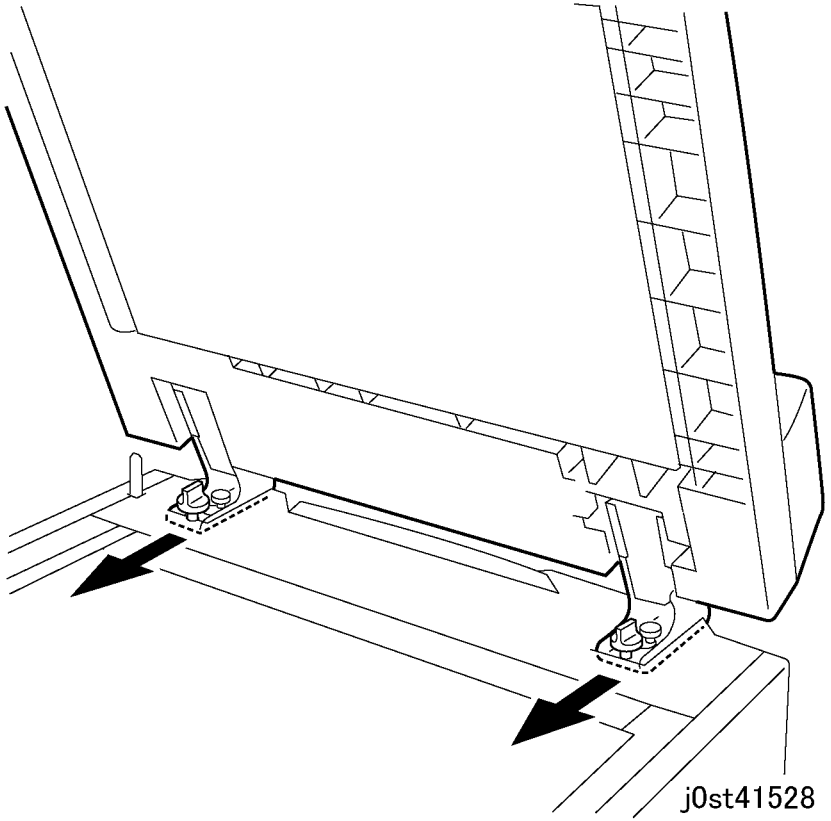


Figure 3 Installing the DADF (j0st41528)

REP 15.1.2 DADF Platen Cushion

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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.

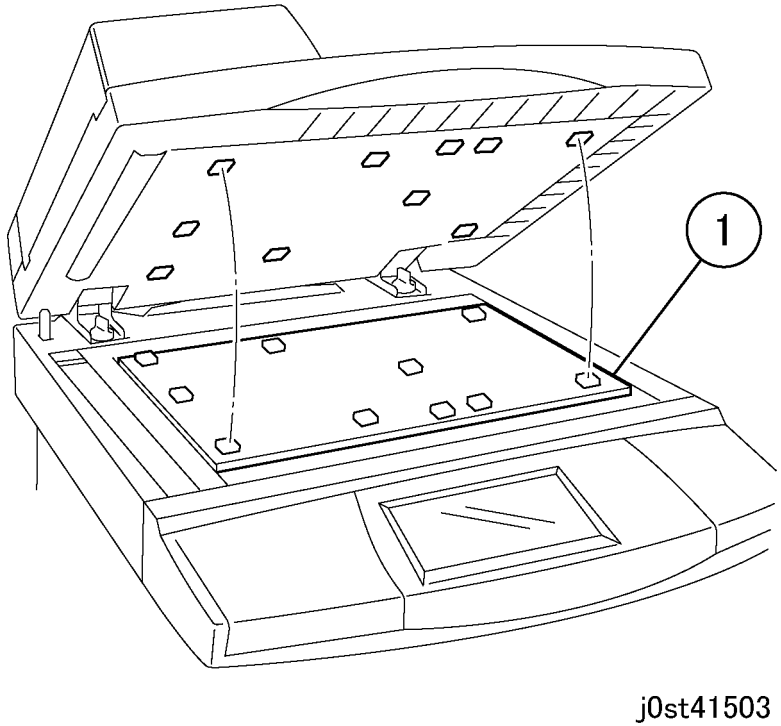


Figure 1 Removing the DADF Platen Cushion (j0st41503)

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.

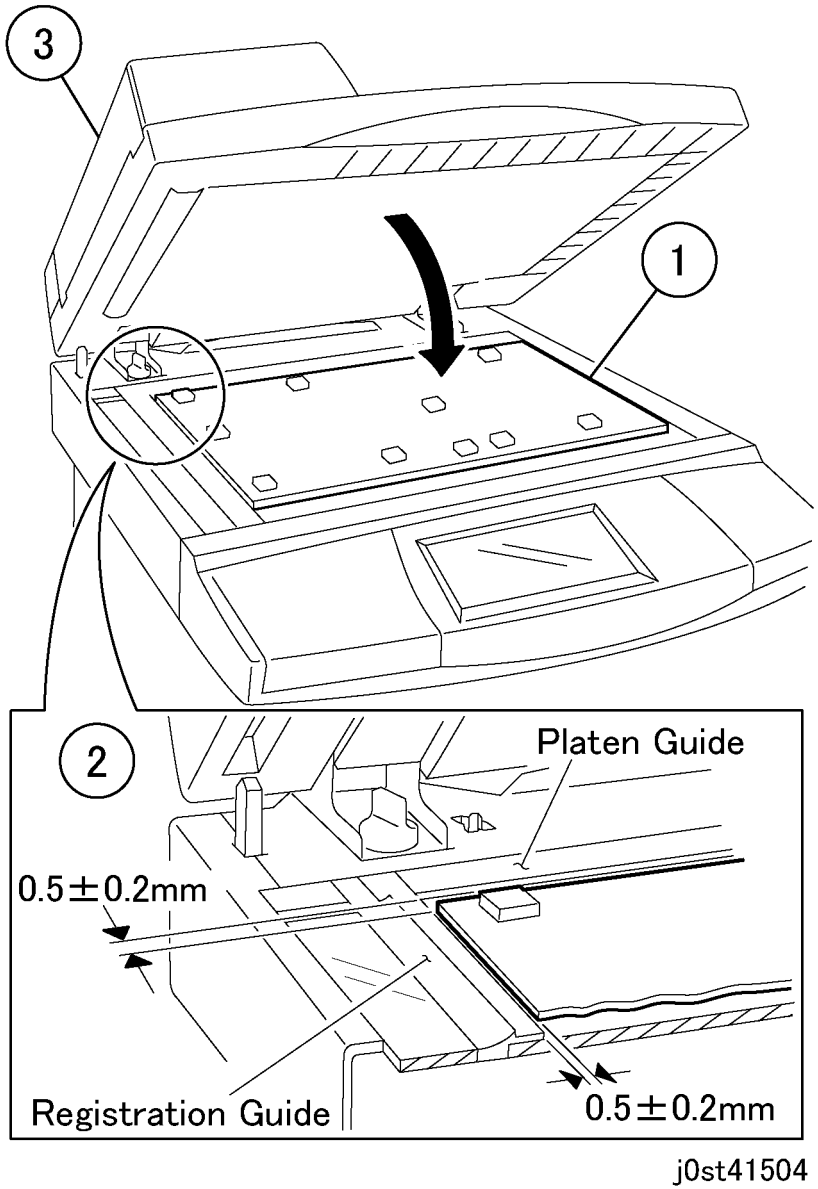


Figure 2 Installing the DADF Platen Cushion (j0st41504)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.1 DADF Document Tray

Parts List on PL 15.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 screws (M3x6: Silver).
   5. Remove the Earth Wire.
   6. Unhook the Wire Harness (x2).

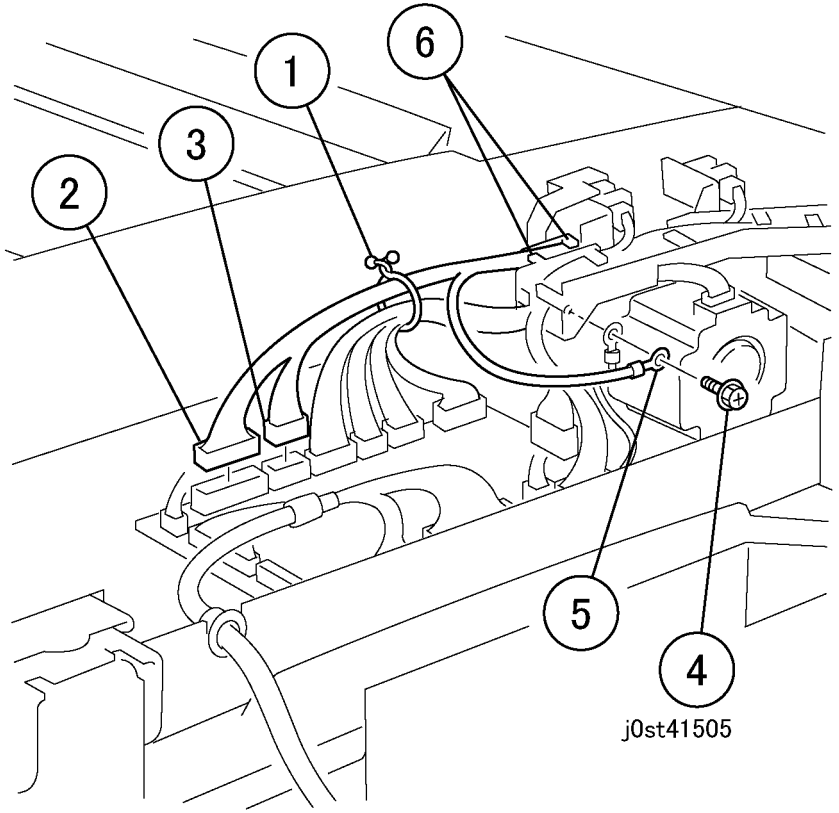


Figure 1 Disconnecting the connectors (j0st41505)

4. Remove the DADF Document Tray. (Figure 2)
    1. Remove the Tapping Screws (3x8: Silver).
    2. Remove the Tray Holder.
    3. Remove the DADF Document Tray.
    4. Pull out the Wire Harness.

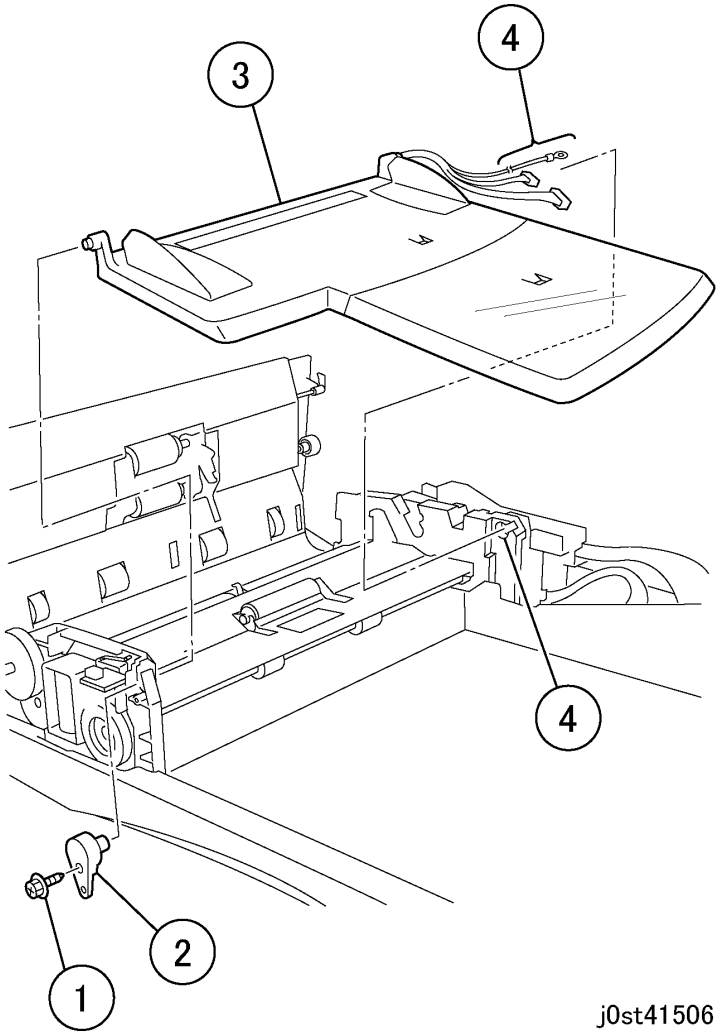


Figure 2 Removing the DADF Document Tray (j0st41506)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.2 DADF Feeder Assembly

Parts List on PL 15.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 (x6).

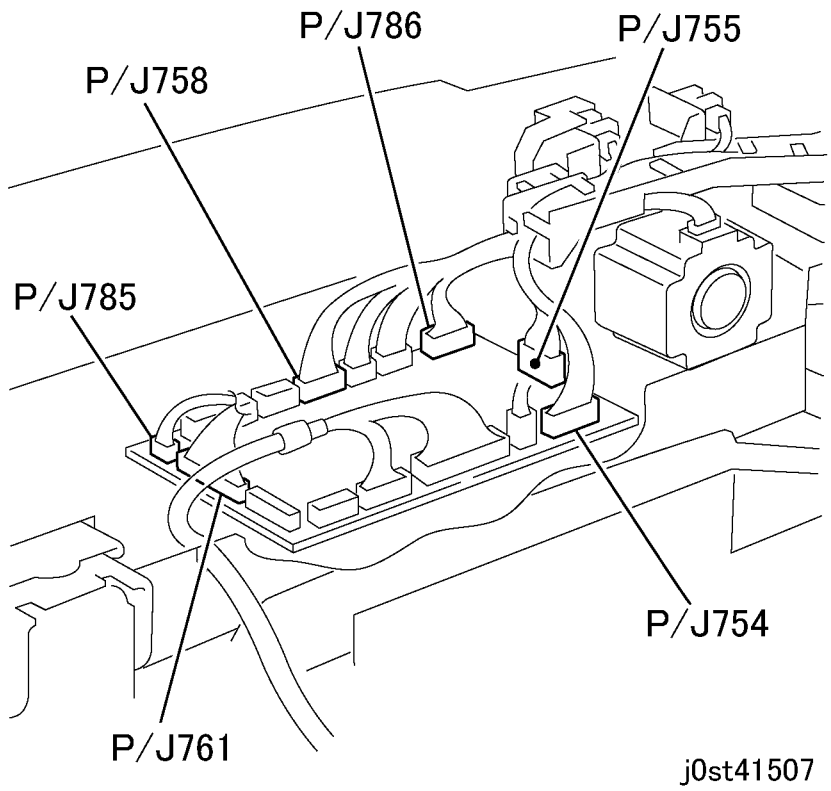


Figure 1 Disconnecting the DADF PWB connectors (j0st41507)

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).

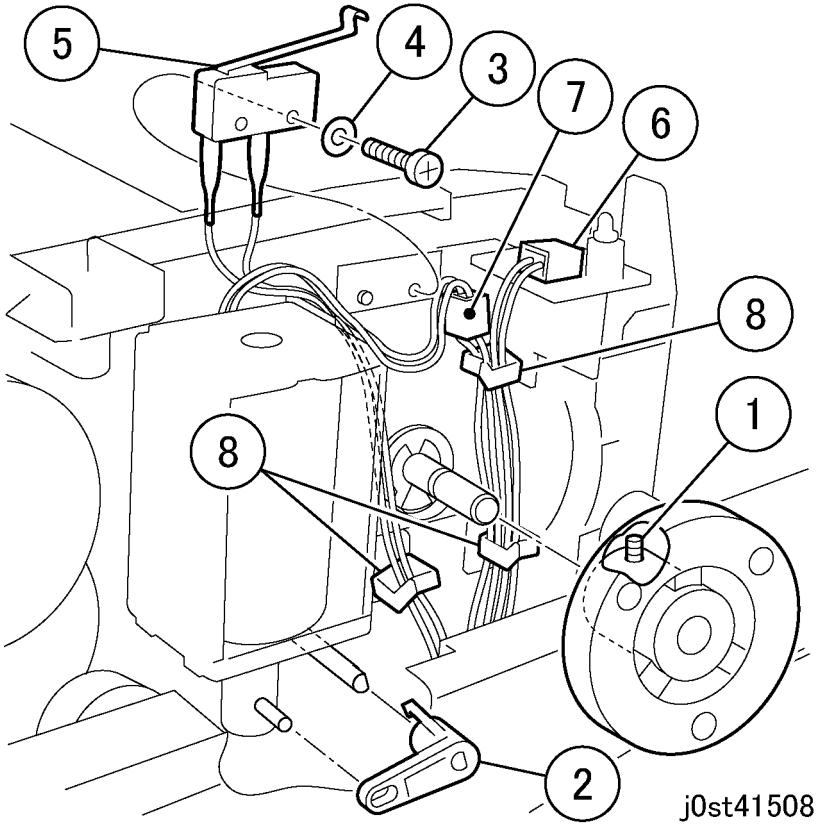


Figure 2 Removing the Lever and Wire Harness (j0st41508)

7. Remove the DADF Feeder Assembly. (Figure 3)
    1. Remove the screws (M4x8).
    2. Remove the Tapping Screws (4x8:6).
    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.

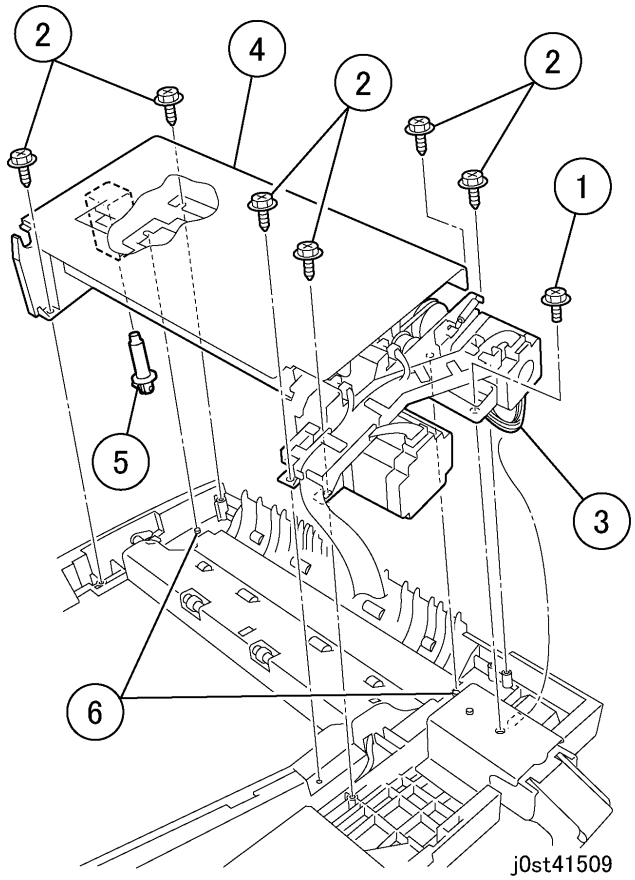


Figure 3 Removing the DADF Feeder Assembly (j0st41509)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the [HFSI] counter.
   Chain Link:955-806

REP 15.2.3 DADF Front Cover

Parts List on PL 15.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the Top Cover Assembly.
2. Remove the DADF Front Cover. (Figure 1)
   1. Remove the Tapping Screw (3x8:Silver).
   2. Remove the tabs (x2) from the Tab Slot and remove the DADF Front Cover.

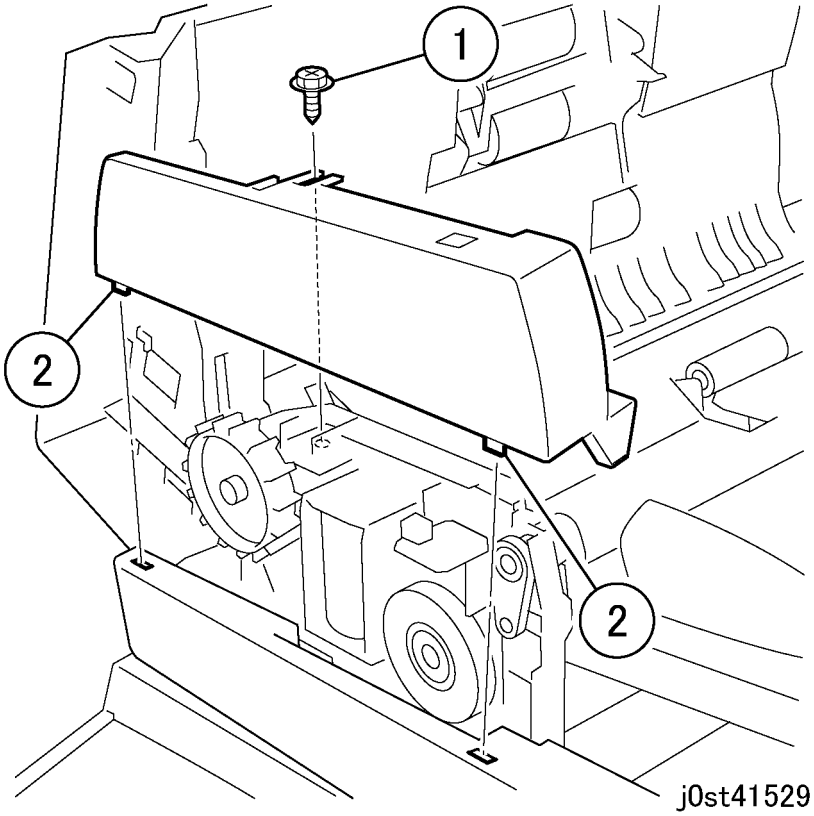


Figure 1 Removing the DADF Front Cover (j0st41529)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.4 DADF Rear Cover

Parts List on PL 15.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Open the Top Cover.
2. Open the DADF Document Tray.
3. Remove the DADF Rear Cover. (Figure 1)
   1. Remove the Tapping Screw (3x8:Silver).
   2. Remove the s crew (M3x10:Silver: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.

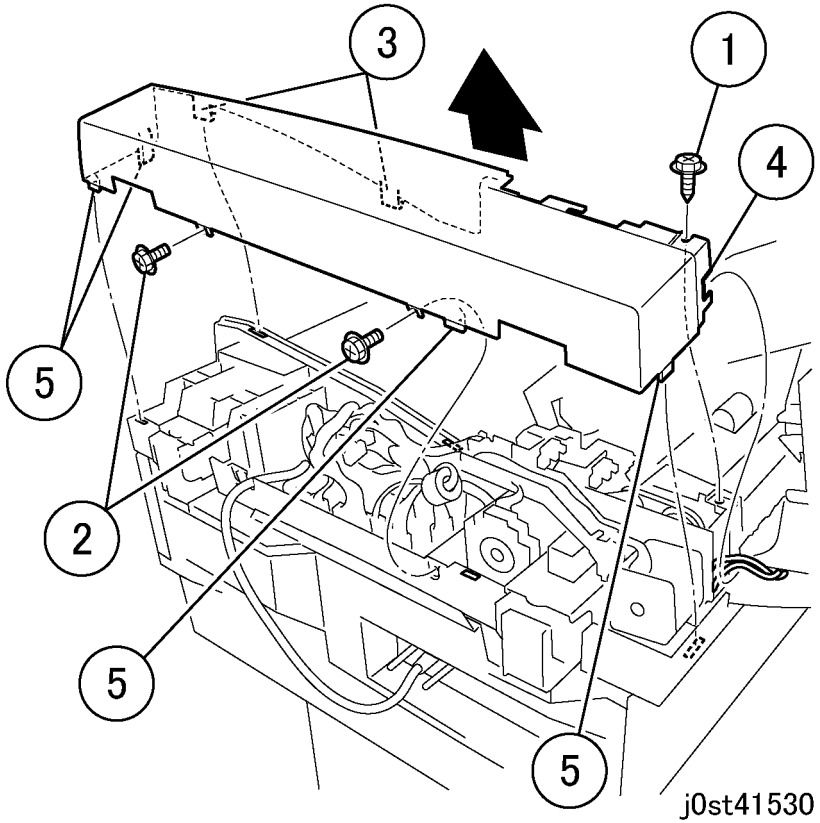


Figure 1 Removing the DADF Rear Cover (j0st41530)

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.

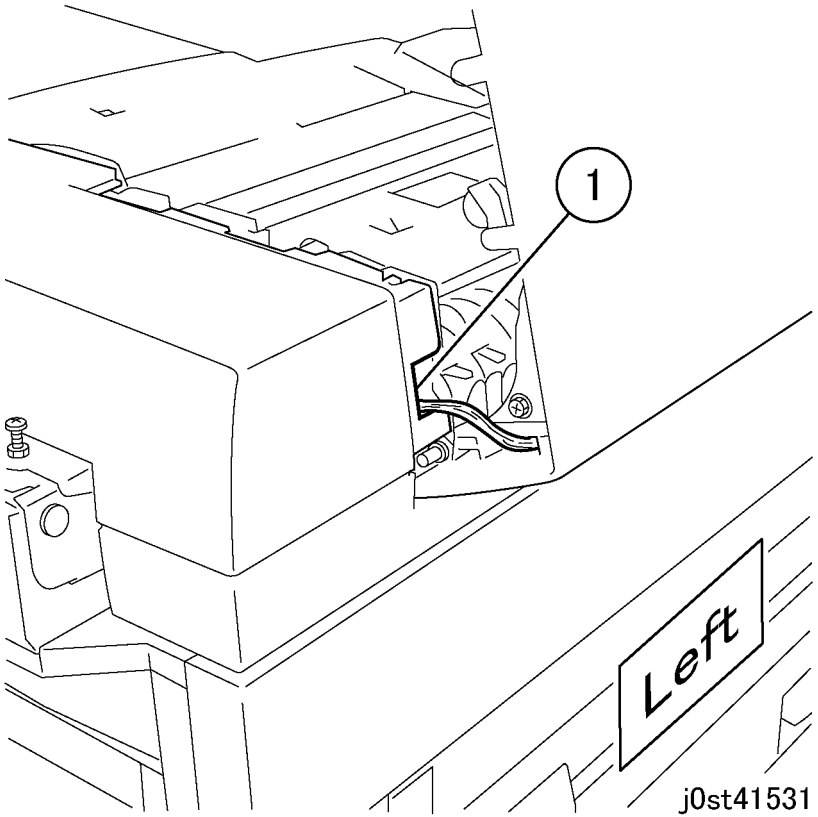


Figure 2 Installing the DADF Rear Cover (j0st41531)

REP 15.3.1 DADF PWB

Parts List on PL 15.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the DADF Rear Cover. (REP 15.2.4)
2. Disconnect the DADF PWB connectors. (Figure 1)
   1. Disconnect the connectors (x13).

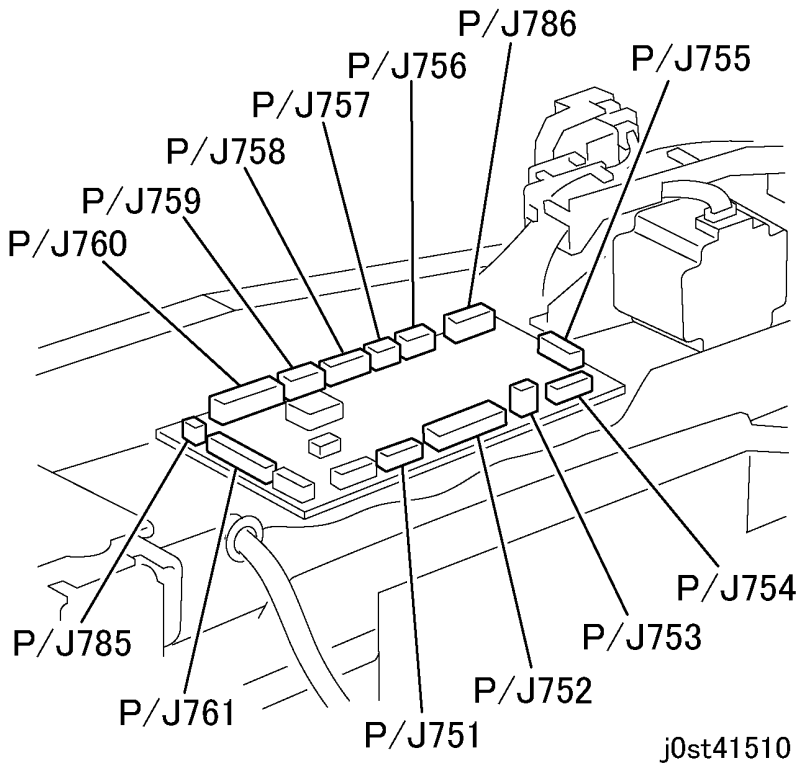


Figure 1 Disconnecting the DADF PWB connectors (j0st41510)

3. Remove the DADF PWB. (Figure 2)
   1. Remove the screws (M3x6).
   2. Remove the Tapping Screws (3x8:4).
   3. Remove the Earth Wires (x2).
   4. Remove the DADF PWB.

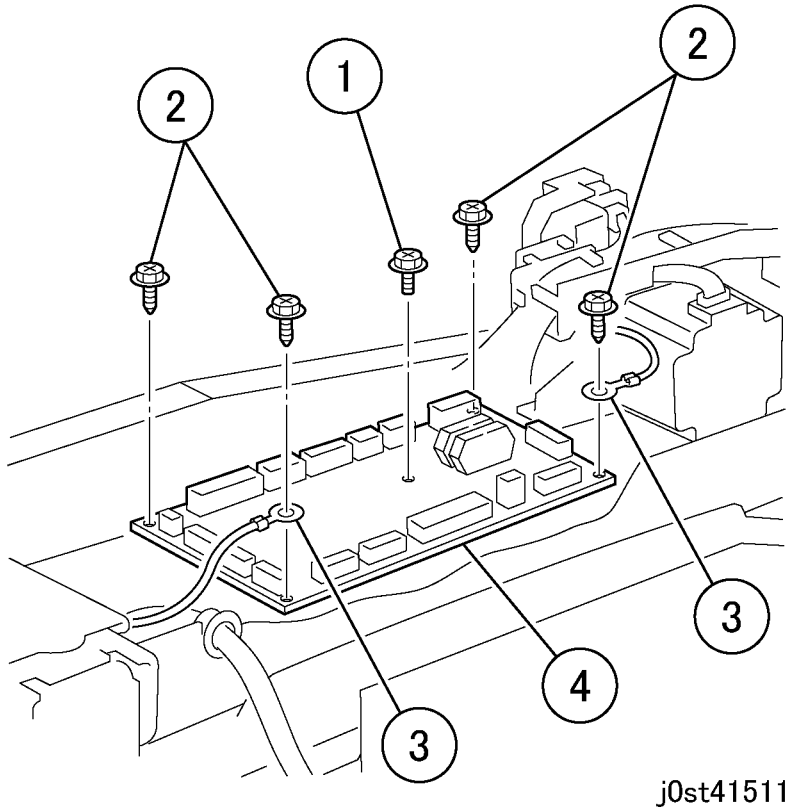


Figure 2 Removing the DADF PWB (j0st41511)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.3.2 Left Counter Balance

Parts List on PL 15.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 (4x12:4).
   2. Remove the Left Counter Balance.

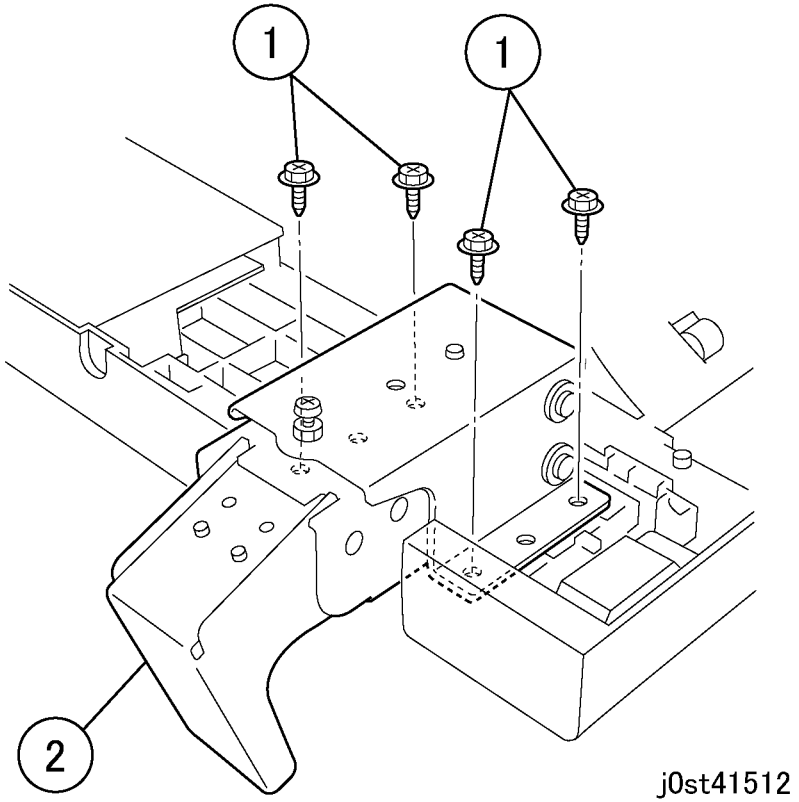


Figure 1 Removing the Left Counter Balance (j0st41512)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.3.3 Right Counter Balance

Parts List on PL 15.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 (M4 x 8).
   3. Remove the Earth Wire.
   4. Remove the Tapping Screws (4x12:4).

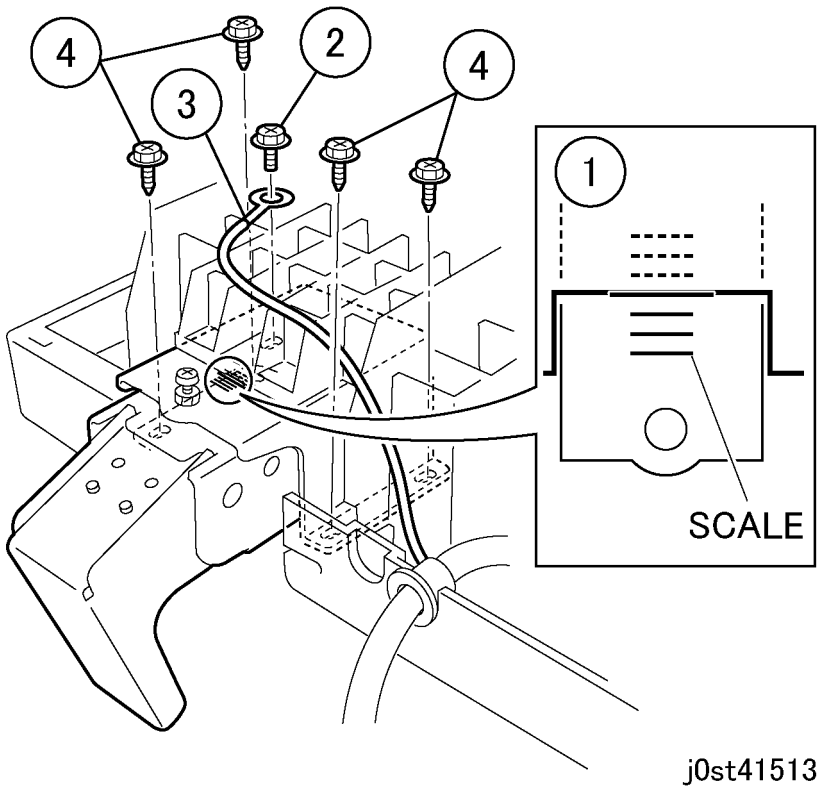


Figure 1 Unfastening the Right Counter Balance (j0st41513)

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

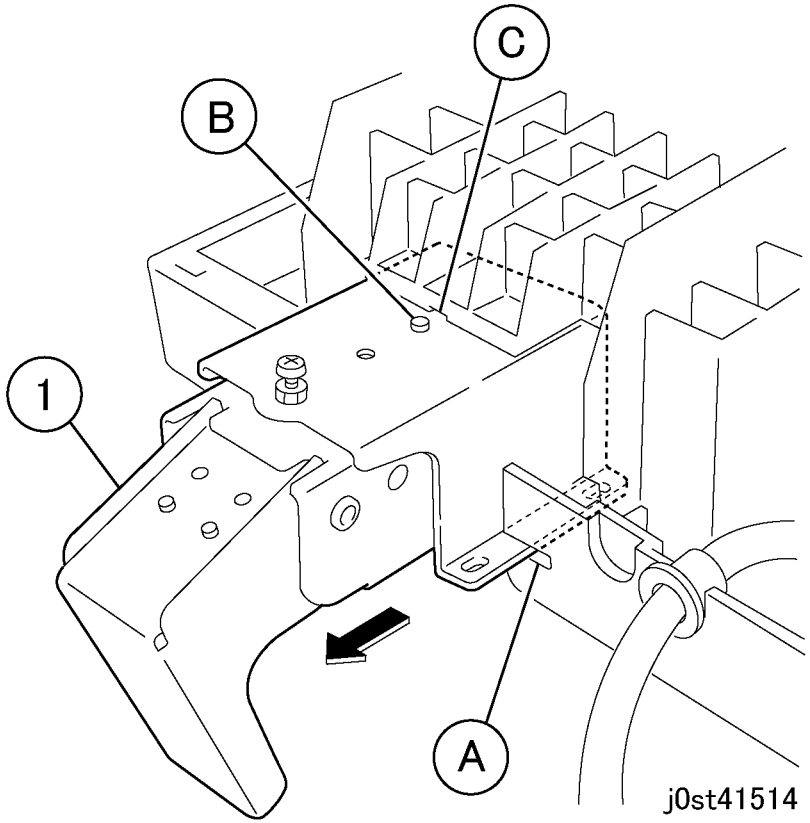


Figure 2 Removing the Right Counter Balance (j0st41514)

Replacement

1. Check DADF (ADJ 15.1.6).

REP 15.4.1 Retard Roll

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

NOTE: *The Feed, Retard and Nudger Roll must be replaced at the same time.*

1. Open the Top Cover Assembly.
2. Open the Retard Roll chute.
3. Remove the Retard Roll Holder. (Figure 1)
   1. Remove the clip.
   2. Bend the boss in the direction of the arrow to remove the Retard Roll Holder.

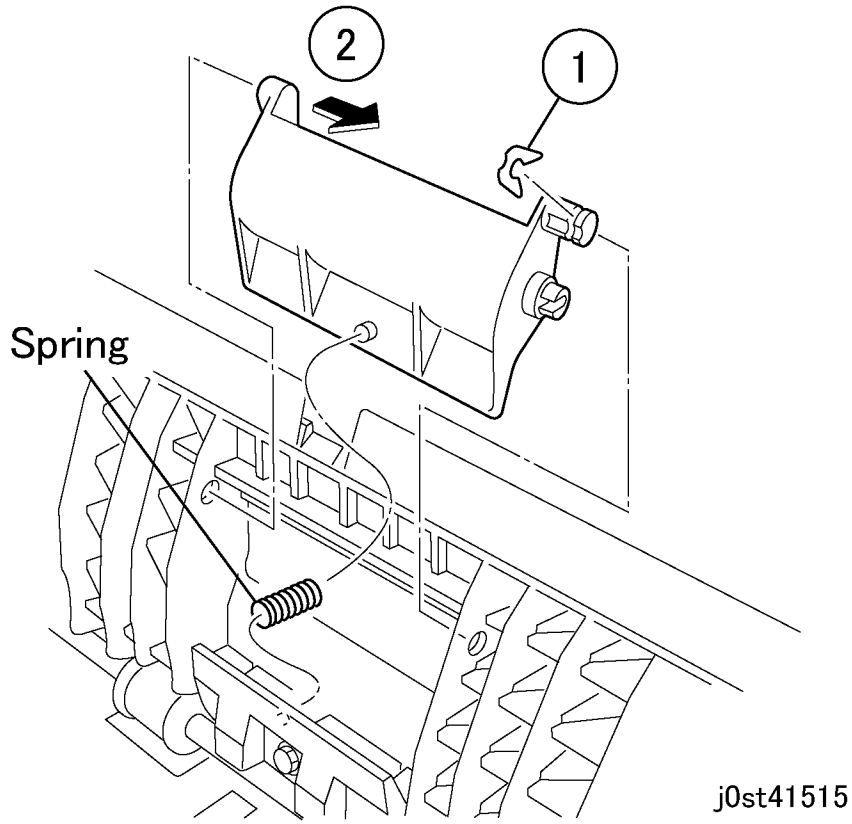


Figure 1 Removing the Retard Roll Holder (j0st41515)

4. Remove the Retard Roll. (Figure 2)
   1. Remove the shaft.
   2. Remove the Retard Roll.
   3. Remove the Torque Limiter.

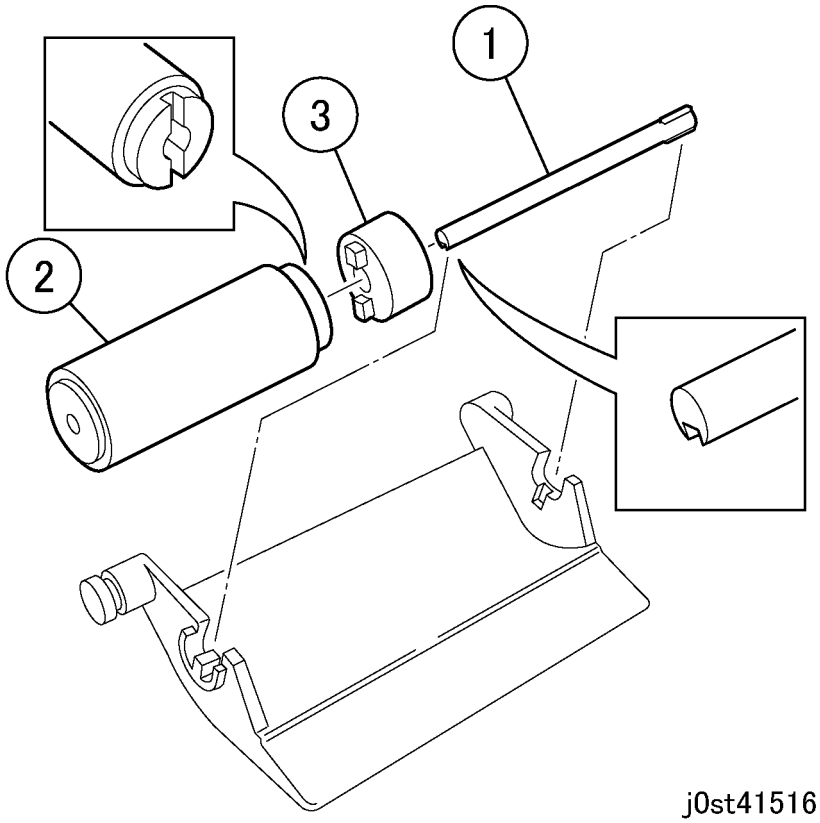


Figure 2 Removing the Retard Roll (j0st41516)

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing, enter Diag. mode. Clear the [HFSI] counter.
   Chain Link:955-806

REP 15.4.2 Top Cover Assembly

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 (M3x6).
   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.

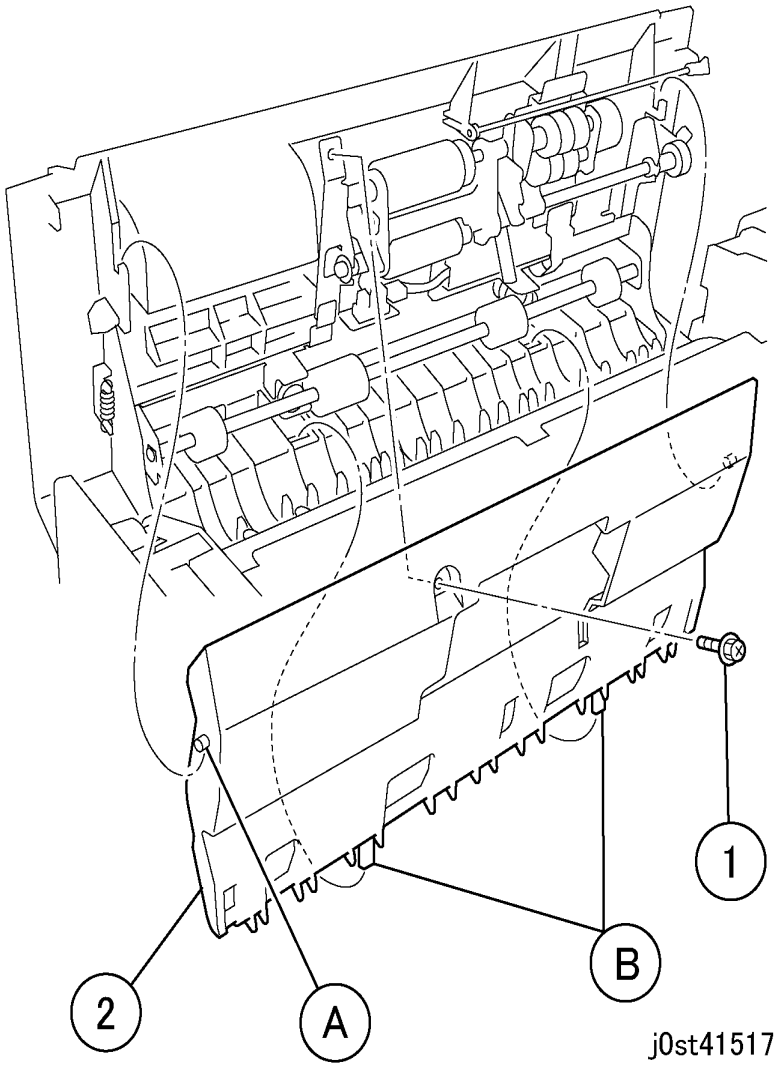


Figure 1 Removing the Feed Upper Chute (j0st41517)

4. Remove the Harness Guide. (Figure 2)
    1. Loosen the screw.
    2. Remove the Earth Wire.
    3. Remove the Tapping Screw (3x8).
    4. Unfasten the Harness Guide.

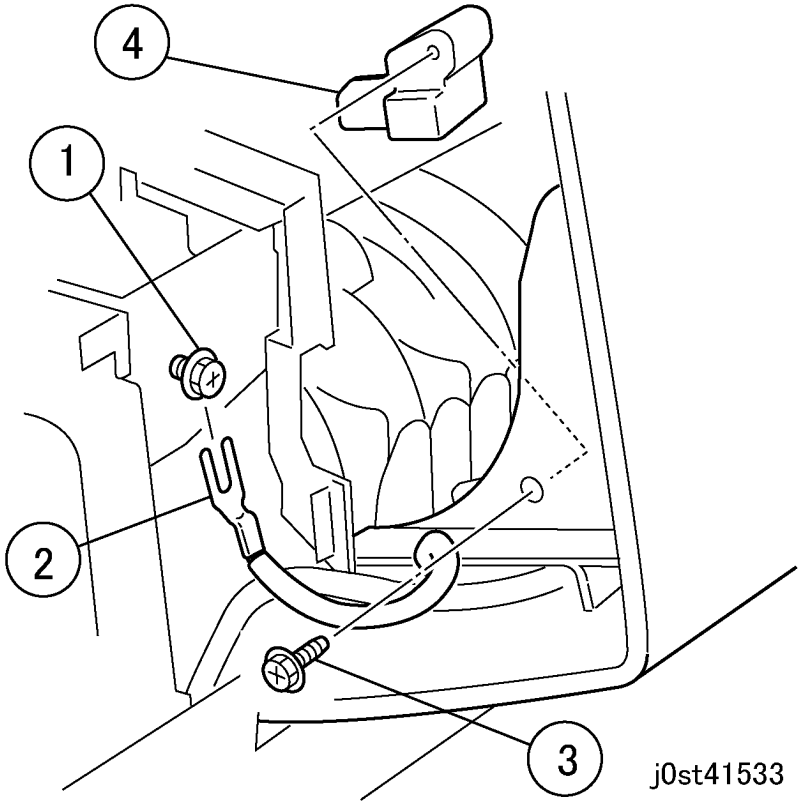


Figure 2 Removing the Harness Guide (j0st41533)

5. Remove the Plate Spring. (Figure 3)
    1. Remove the Tapping Screw (3x8:2).
    2. Remove the Plate Spring.

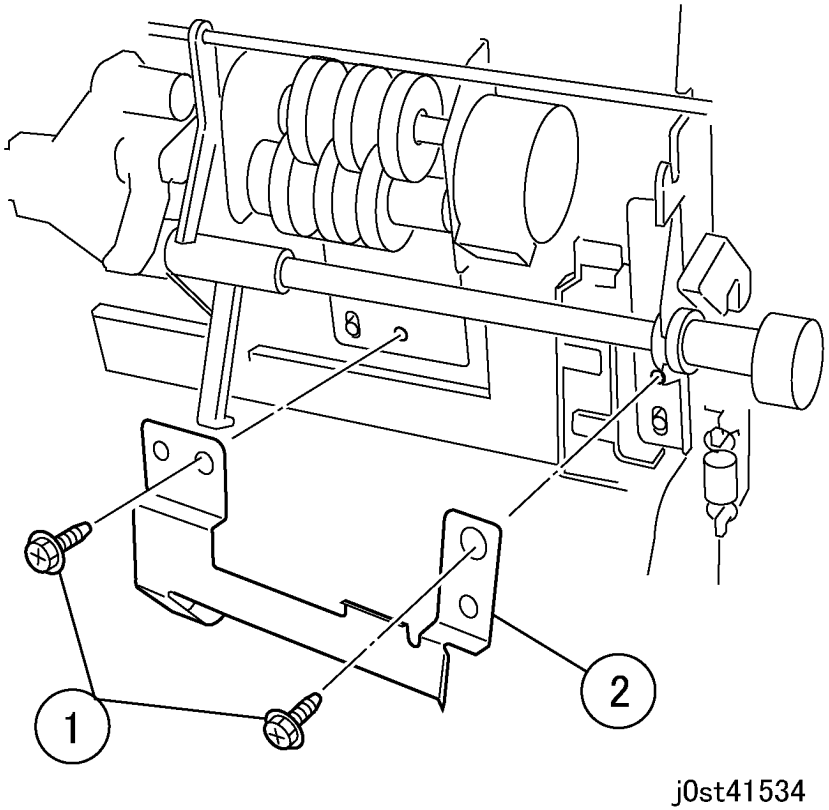


Figure 3 Removing the Plate Spring (j0st41534)

6. Remove the Top Cover with the Wire Harness connected. (Figure 4)
    1. Remove the E-clip.
    2. Remove the screw (M4x8).
    3. Remove the Stud Bracket.
    4. Remove the stud.
    5. Remove the Top Cover Assembly.

7. Unfasten the Wire Harness. (Figure 5)
    1. Disconnect the connector.
    2. Remove the Topping Screw (3x8).
    3. Remove the Earth Wire.
    4. Remove the Tapping Screw (3x8:2).
    5. Unfasten the Harness Guide.

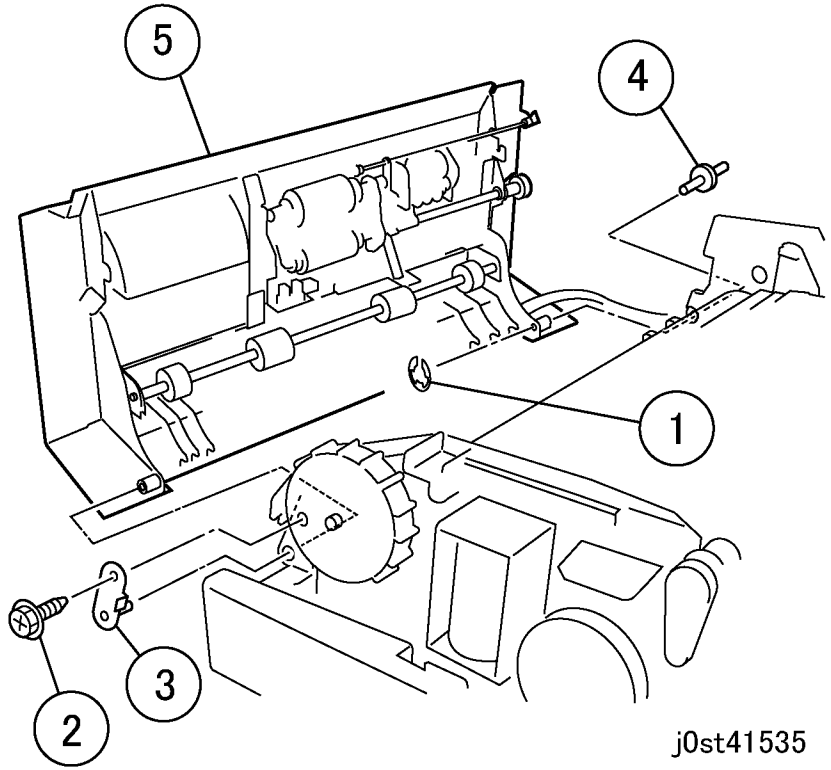


Figure 4 Removing the Top Cover Assembly (j0st41535)

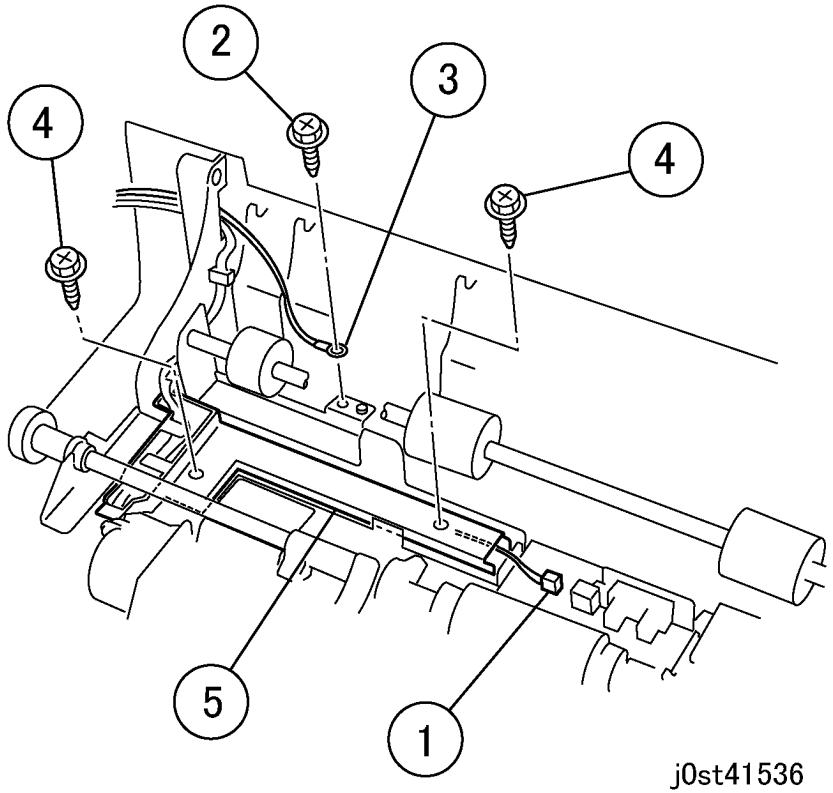


Figure 5 Unfastening the Wire Harness (j0st41536)

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 (x3) from the square hole and remove the Top Cover.

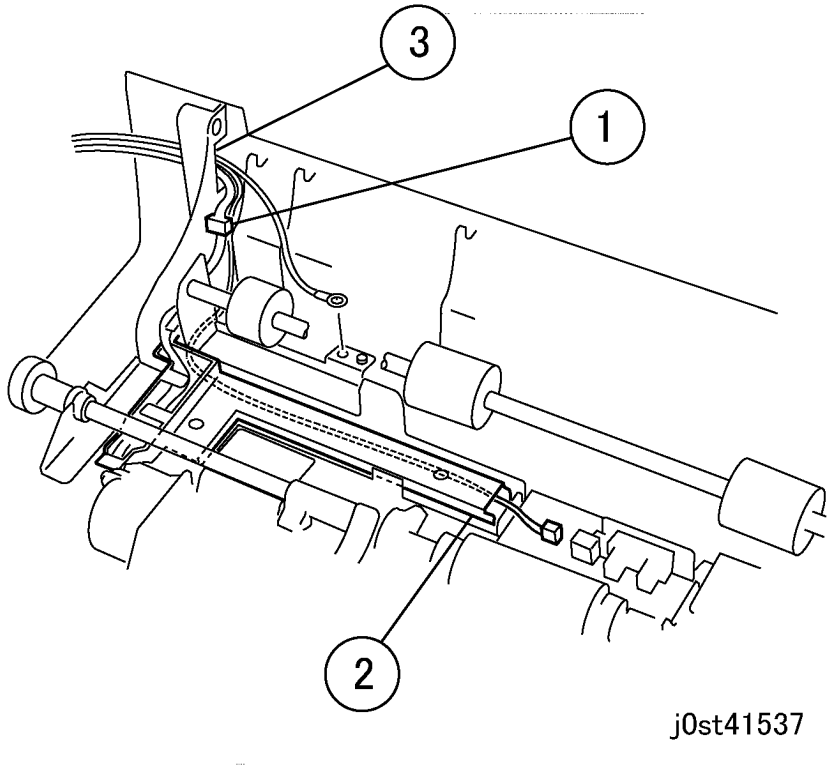


Figure 6 Removing the Wire Harness (j0st41537)

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 (M3x6).
    2. Remove the Feed Upper Chute.
    3. Remove the Tapping Screw (3x8:2).
    4. Remove the Plate Spring.

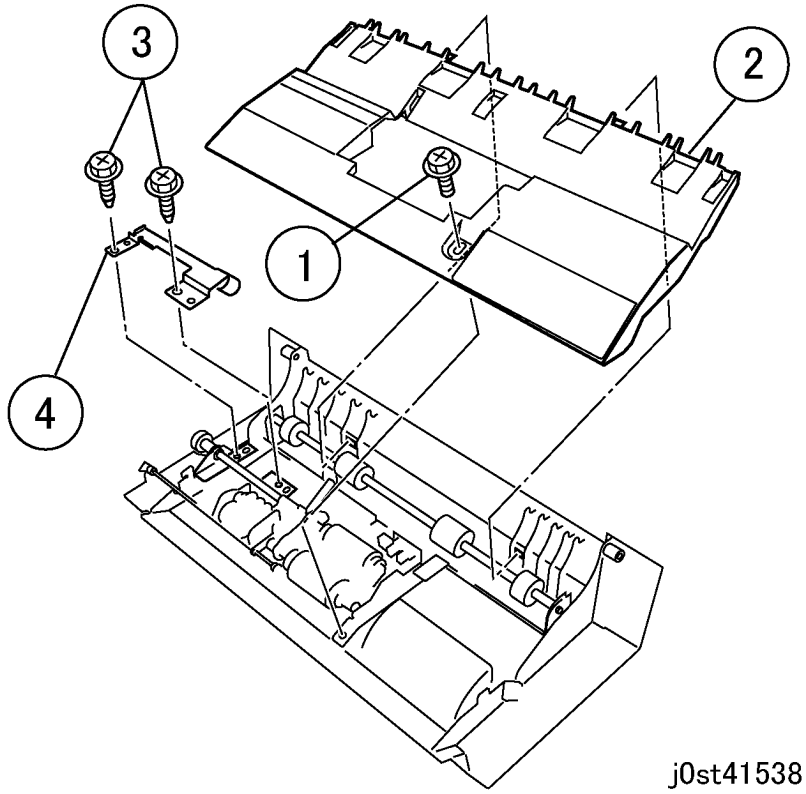


Figure 7 Removing the Feed Upper Chute and Plate Spring (j0st41538)

3. Remove the Wire Harness from the new Top Cover. (Figure 8)
    1. Disconnect the connectors (x2).
    2. Removing the Tapping Screw (3x8:3).
    3. Removing the Wire Harness (x3) from the square hole.

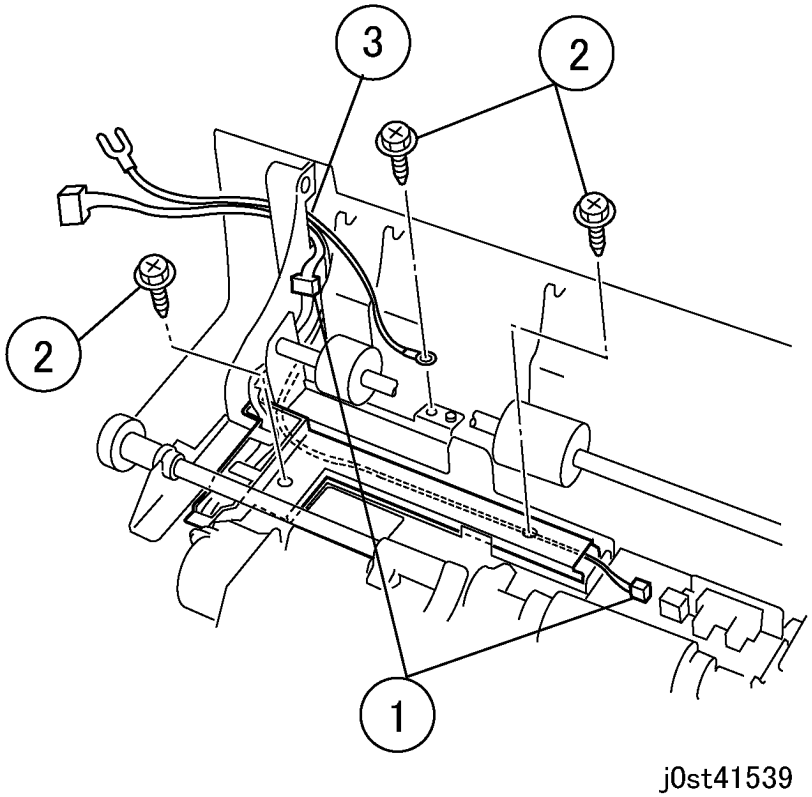


Figure 8 Removing the Wire Harness (j0st41539)

4. Hook on the spring when securing the Harness Guide. (Figure 9)

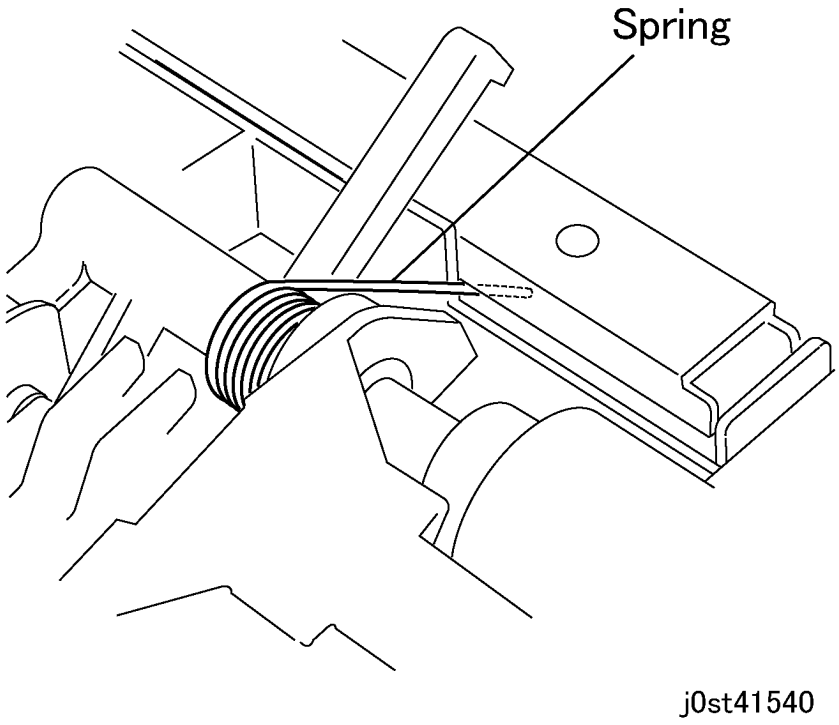


Figure 9 Hooking on the spring (j0st41540)

REP 15.6.1 Nudger Roll, Feed Roll

Parts List on PL 15.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

***NOTE:** The Feed, Retard and Nudger Roll must be replaced at the same time.*

1. Open the Top Cover Assembly.
2. Remove the Feed Upper Chute. (Figure 1)
   1. Remove the screws (M3x6).
   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.

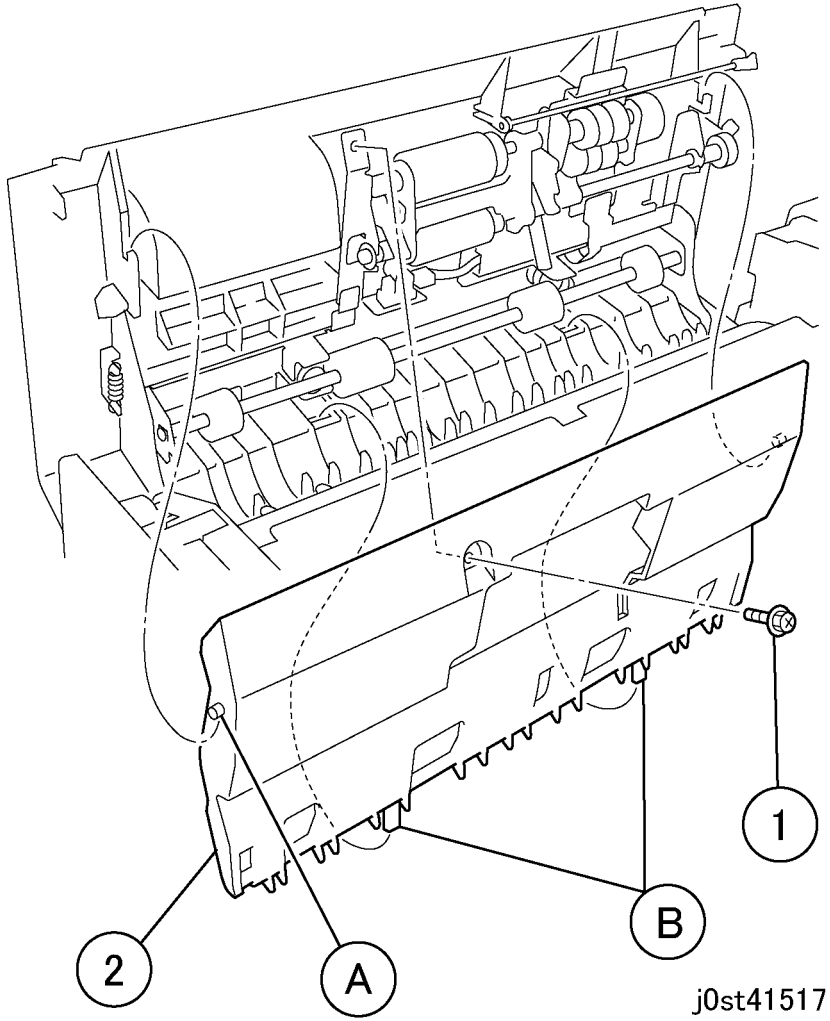


Figure 1 Removing the Feed Upper Chute (j0st41517)

3. Remove the actuator while deforming the support and actuator (1) and place it aside to prevent damaging it during this removal procedure. (Figure 2)

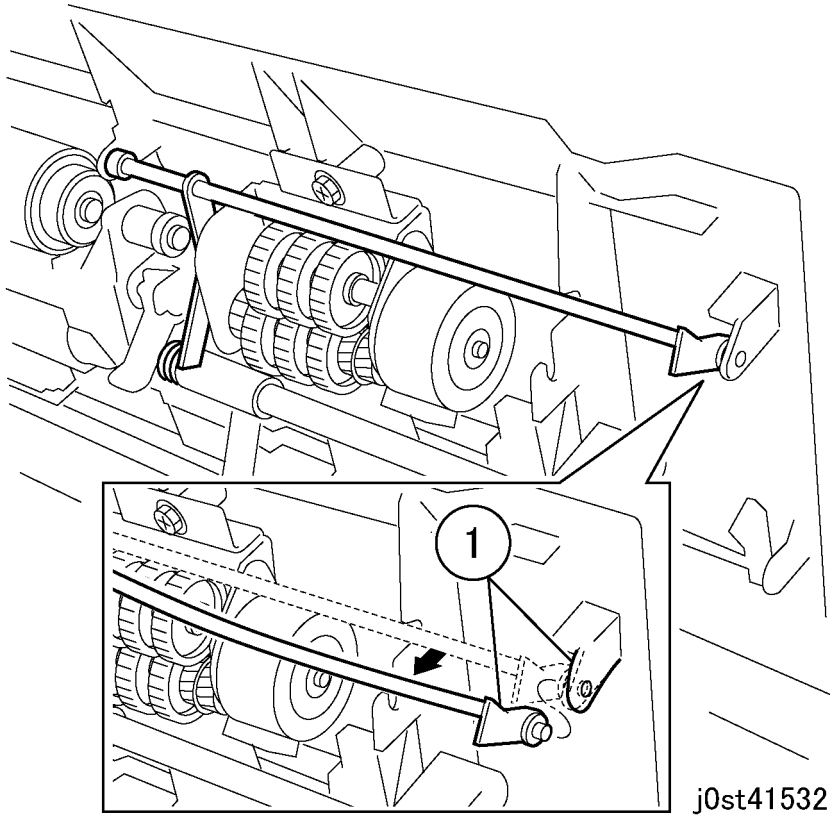


Figure 2 Removing the actuator (j0st41532)

4. Remove the Nudger/Feed Roll Assembly. (Figure 3)

NOTE: *To prevent losing the set gates (item 1 in Figure 5), during the removal of the Nudger/Feed roll assembly, remove them by slipping them off the shaft.*

1. Remove the KL-clip (1).
2. Remove the E-clip (2).
3. Remove the bearing (3).
4. Make a note of the spring locations and then remove the tension from the assembly by disengaging both springs by flexing them out of the keepers.
5. Move the shaft in the direction of the arrow to remove the Nudger/Feed Roll Assembly (4).
6. Remove the spring (5).

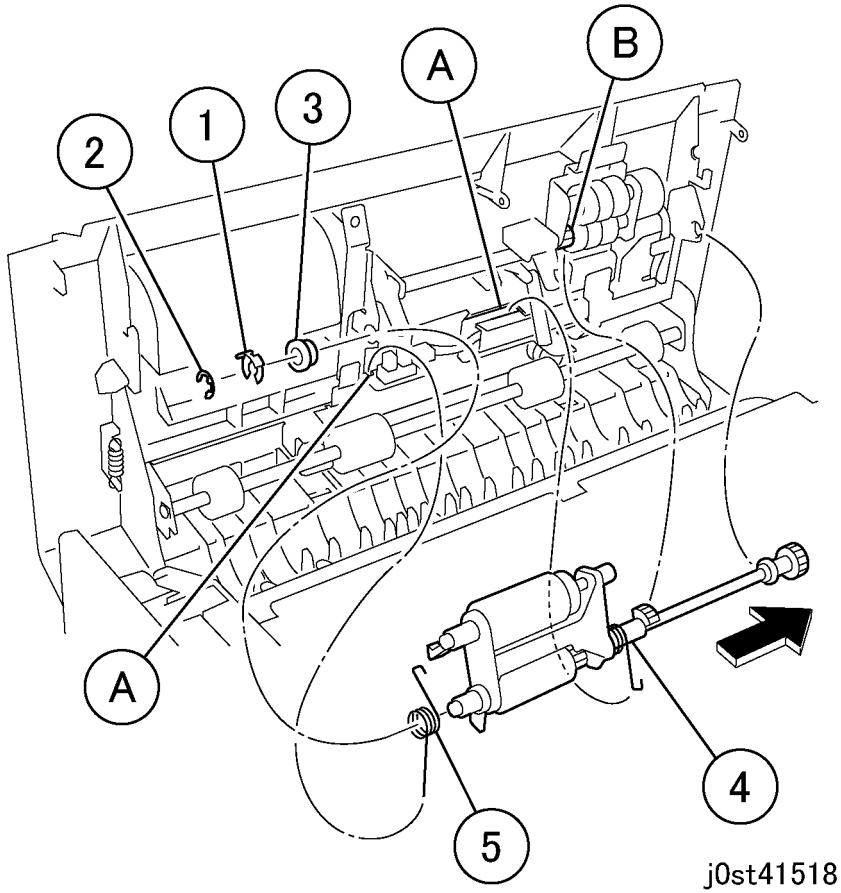


Figure 3 Removing the Nudger/Feed Roll Assembly (j0st41518)

5. Remove the Nudger Roll and Feed Roll. (Figure 4)
   1. Remove the E-clips (x2) (1).
   2. Remove the set gates (x2) (2).
   3. Remove the shaft (3).
   4. Remove the Nudger Roll (large) (4).
   5. Note orientation of the groove in the gear and the direction of the pin and then remove the gear (large) (5).
   6. Remove the pin (6).
   7. Remove the E-clip (7).
   8. Note orientation of gear and then remove the shaft (8).
   9. Remove the spring (9).
   10. Remove the Feed Roll (small) (10).
   11. Note orientation of the groove in the gear and the direction of the pin and then remove the gear (small) (11).

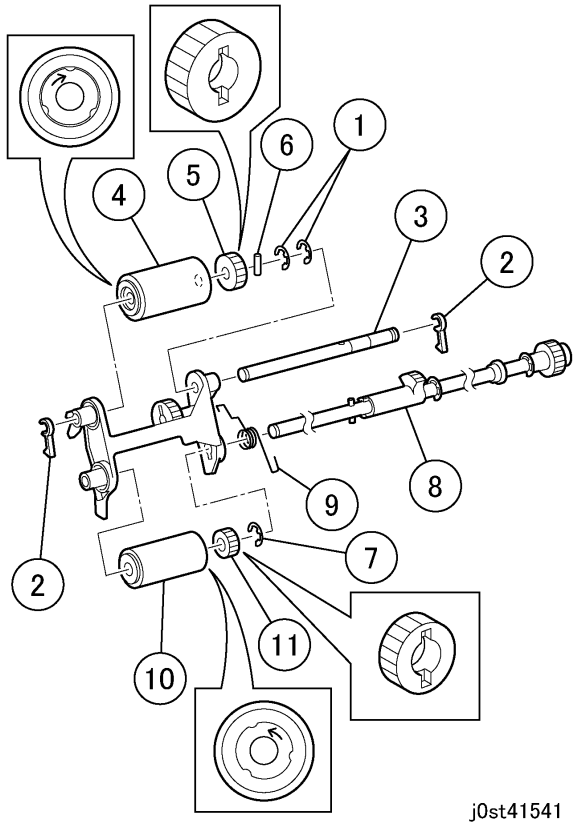


Figure 4 Removing the Nudger Roll and Feed Roll (j0st41541)

Replacement

Observe following while assembling feeder.

NOTE: *To prevent loss of the Set Gates (item 1) (2), install the Set Gates after installing the Nudger/Feed Roll Assembly. Note the location and direction of the Gates (Figure 1).*

- *Check that the gear teeth are engaged (item 2).*
- *Check location of the spring (item 3).*
- *After the installation is complete, check that the Nudger/Feed Roll Assembly moves up and down smoothly by turning the gears on the Nudger Motor.*

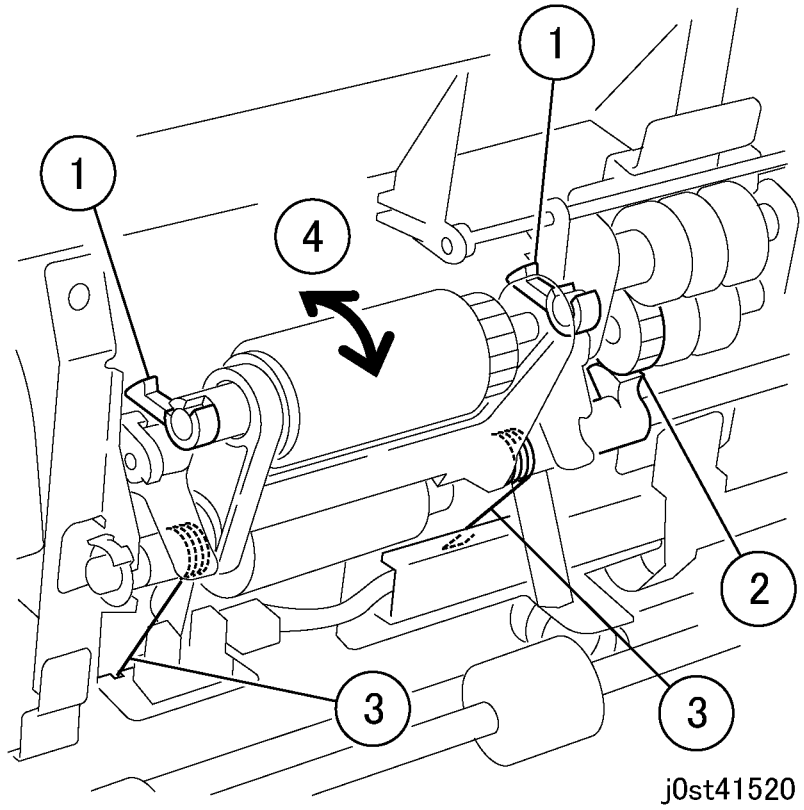


Figure 5 Installing the Nudger/Feed Roll Assembly (j0st41520)

NOTE: *Observe following while installing Upper Feed Chute. (Figure 6)*

- *Insert the Boss into the U-groove (A).*
- *Insert the Tab into the Tab Slot (B).*

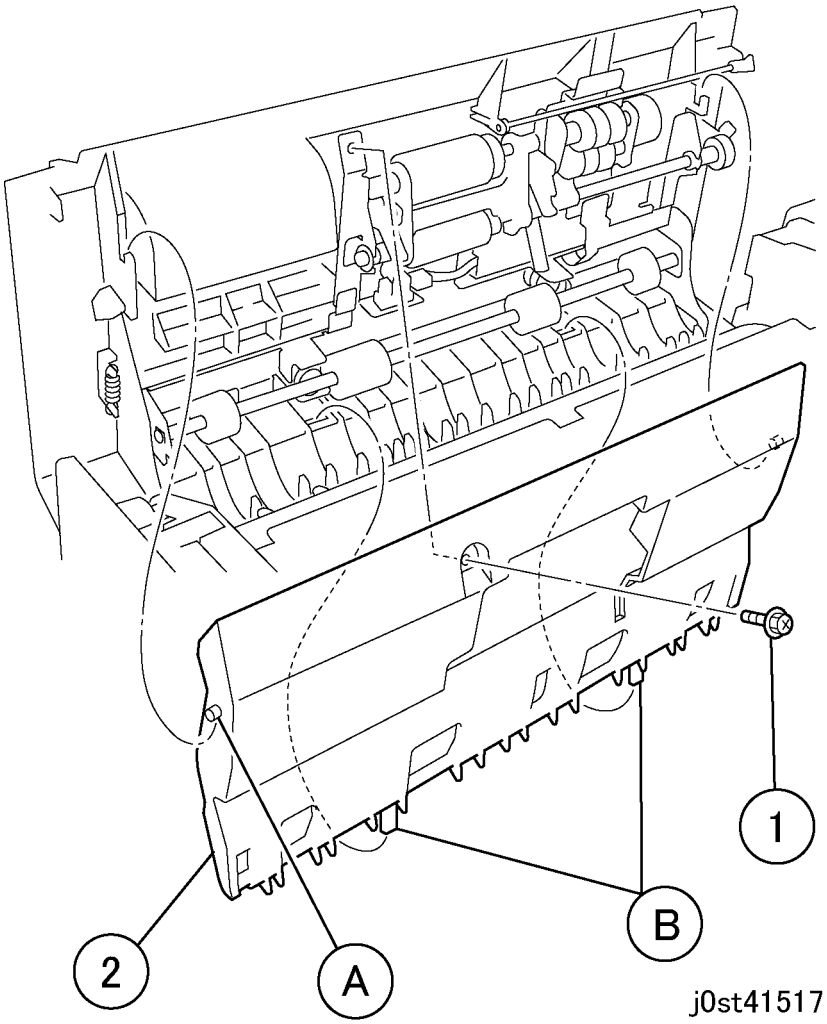


Figure 6 Removing the Feed Upper Chute (j0st41517)

NOTE: *After installation is complete, perform Initialize HFSI Counters and Clear the HFSI counter Chain Link 955-806*

REP 15.8.1 Registration Roll

Parts List on PL 15.8

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

[FAX Models]

Check that the "Stored Documents" lamp is not on, and press the [Job Status] button to ensure that there are no jobs in progress.

[Printer Models]

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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 (x2).

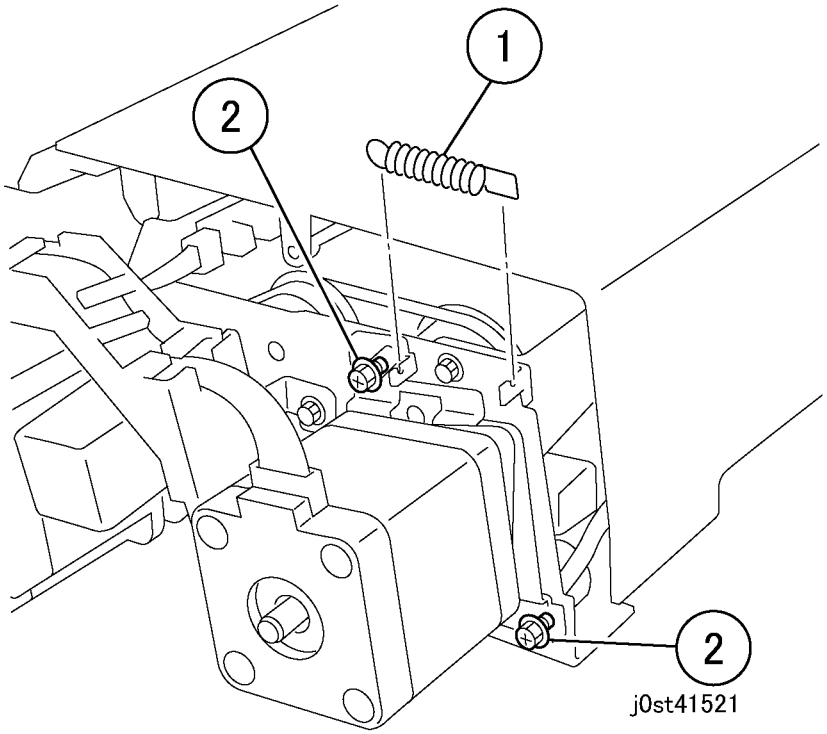


Figure 1 Loosening the belt tension (j0st41521)

7. Move the motor unit. (Figure 2)
    1. Disconnect the connector.
    2. Remove the screws (M3x6:2).
    3. Remove the guide.
    4. Remove the Stud Screw.
    5. Move the motor unit.
    6. Remove the belt.

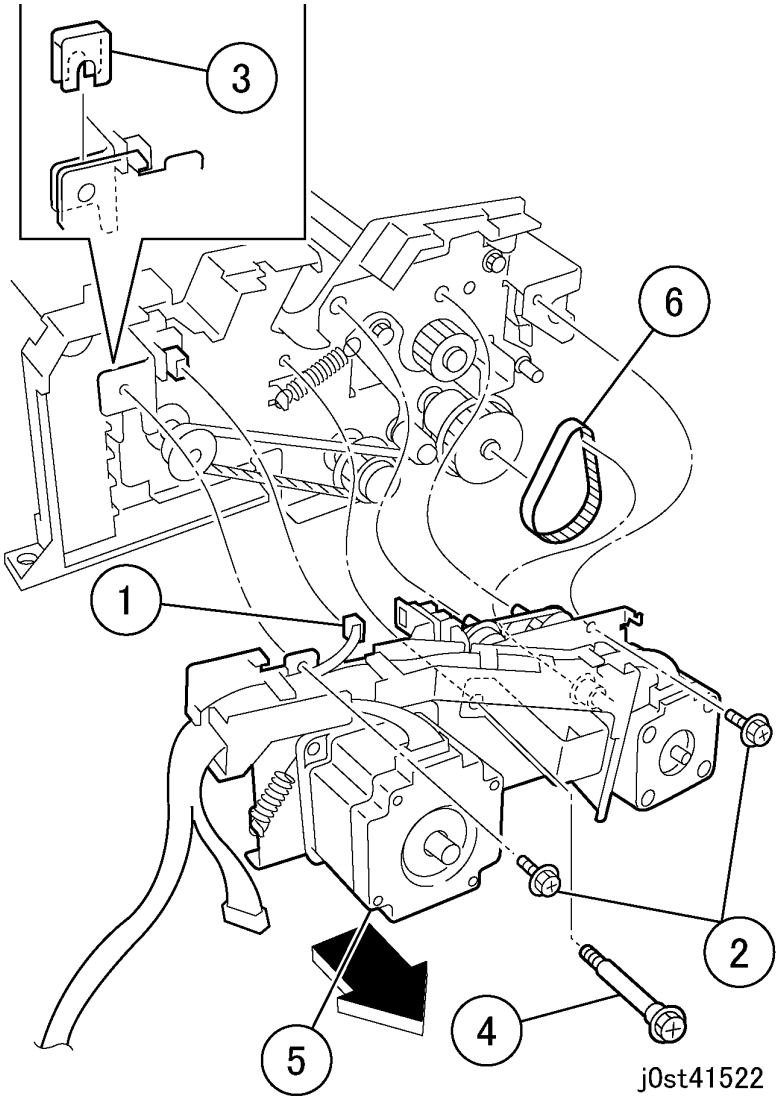


Figure 2 Moving the motor unit (j0st41522)

8. Open the chute.
9. Remove the Feed Guide. (Figure 3)
    1. Remove the screws (M3x8:2).
    2. Remove the Feed Guide.

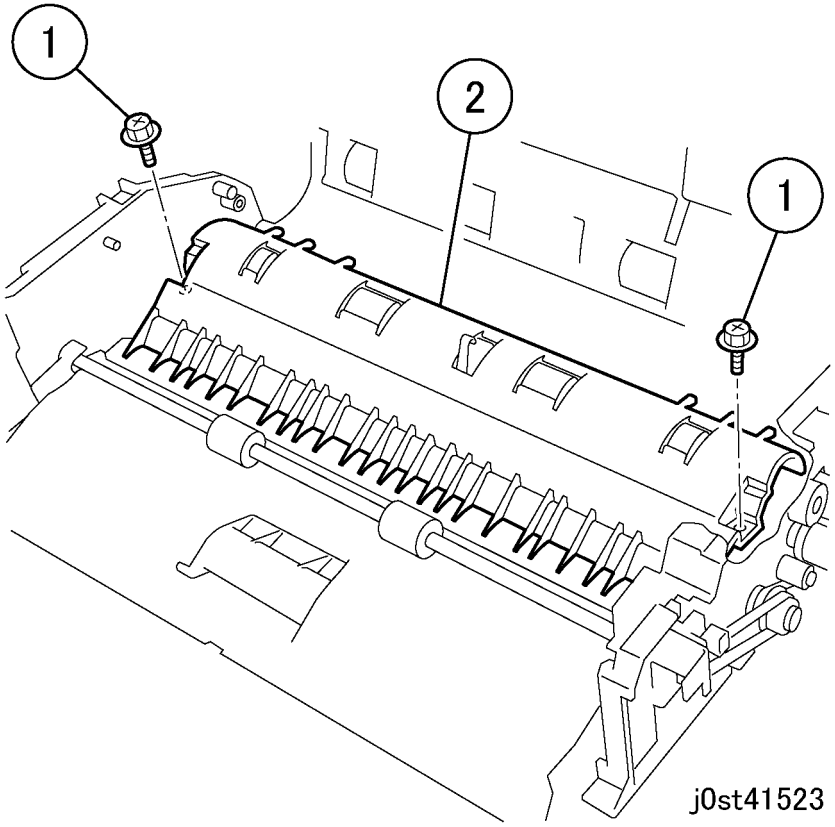


Figure 3 Removing the Feed Guide (j0st41523)

10. Remove the sensor holder. (Figure 4)
    1. Remove the Tapping Screws (3x8:2).
    2. Remove the sensor holder.

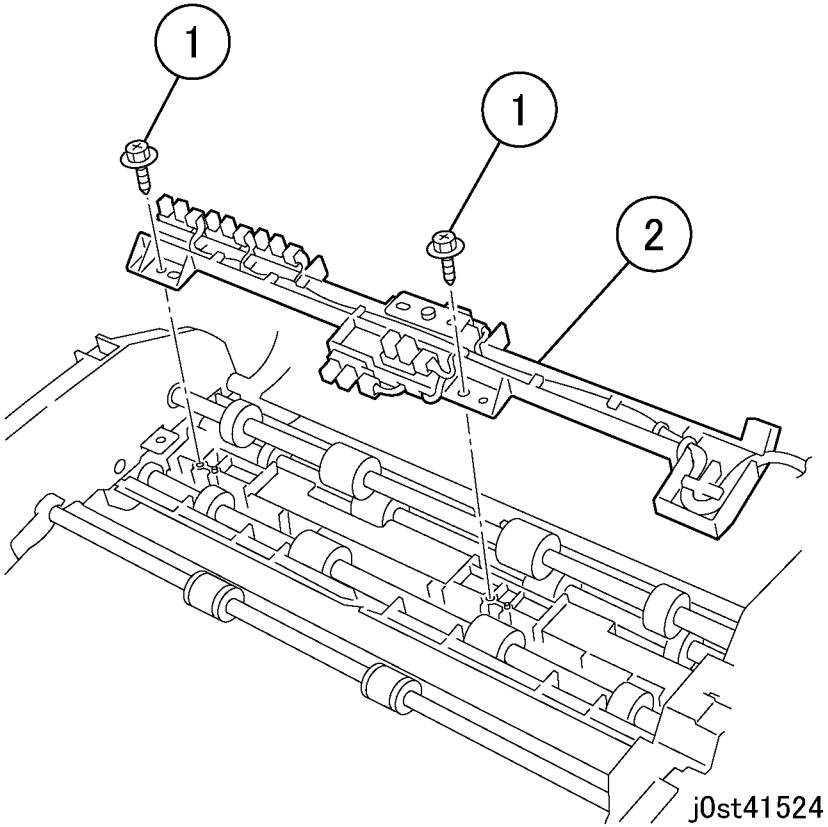


Figure 4 Removing the sensor holder (j0st41524)

11. Loosen the belt tension. (Figure 5)
    1. Remove the spring.
    2. Loosen the screw.
    3. Loosen the belt tension.
    4. Remove the KL-Clip.
    5. Remove the gear.

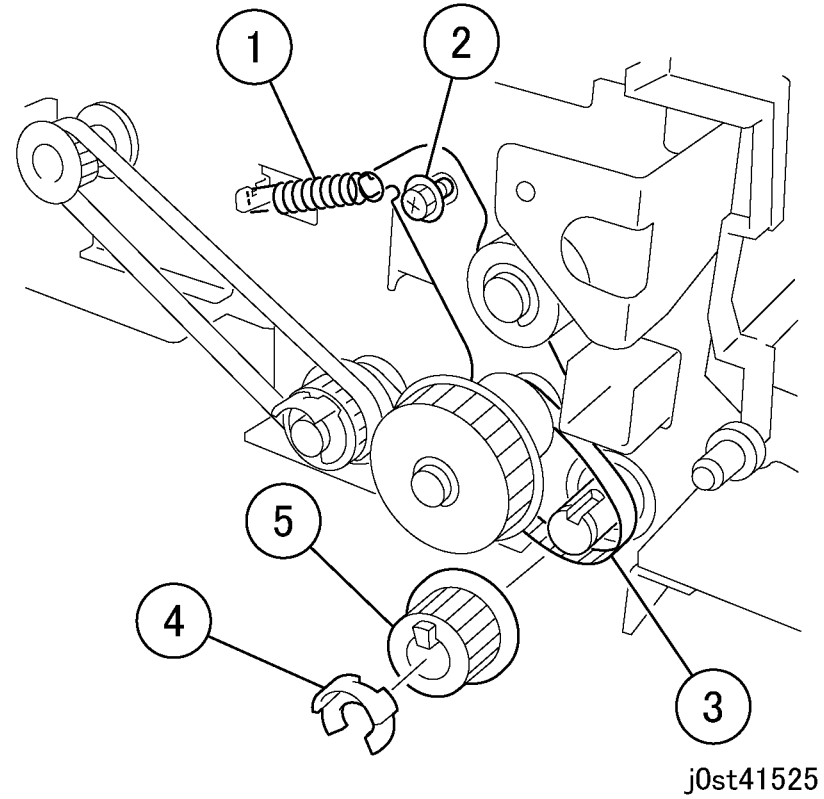


Figure 5 Loosening the belt tension (j0st41525)

12. Remove the Registration Roll. (Figure 6)
    1. Remove the KL-Clip.
    2. Remove the bearings (x2).
    3. Remove the Registration Roll.

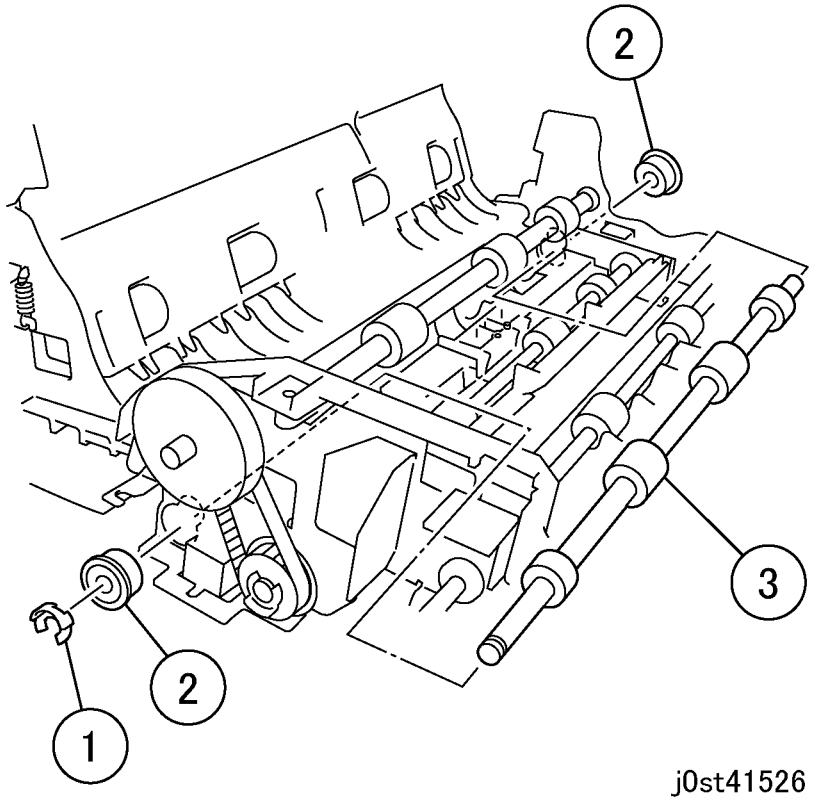


Figure 6 Removing the Registration Roll (j0st41526)

Replacement

1. When installing the motor unit, pull the Wire Harness as shown in Fig. 7. (Figure 7)

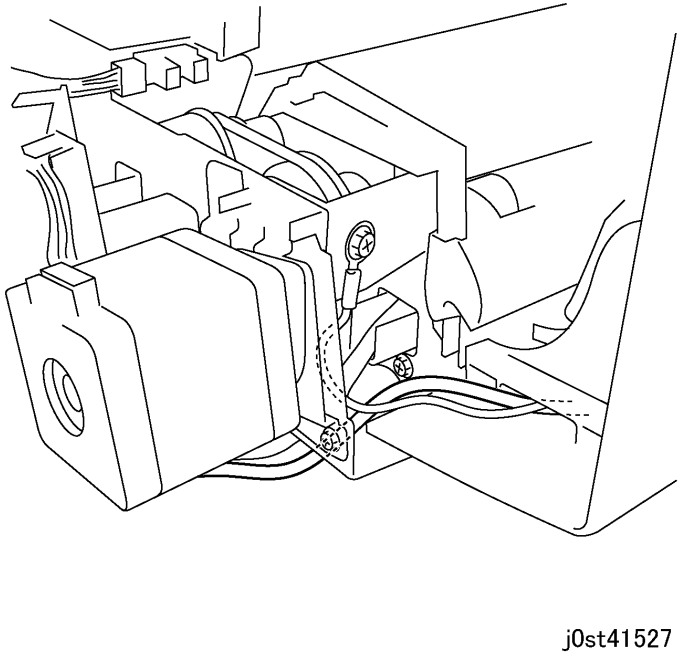


Figure 7 Pulling the Wire Harness (j0st41527)

REP 16.1.1 H-Transport Assembly

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

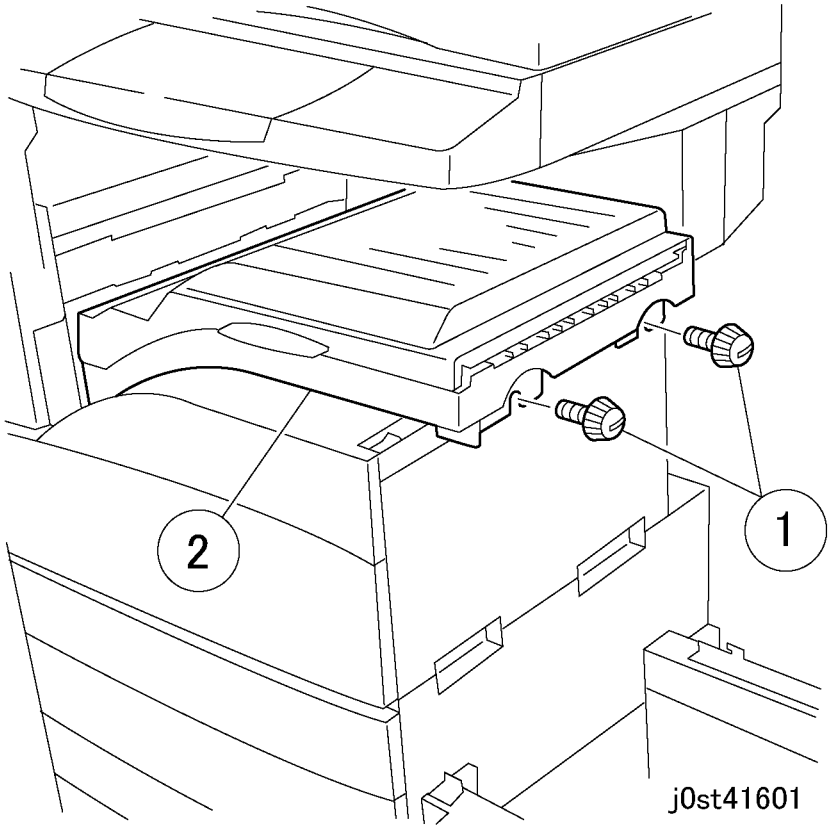


Figure 1 Removing the H-Transport Assembly (j0st41601)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.1.2 Finisher Assembly

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Staple Assembly. (REP 16.8.2)
2. Remove the Right Cover. (Figure 1)
   1. Remove the Right Cover.

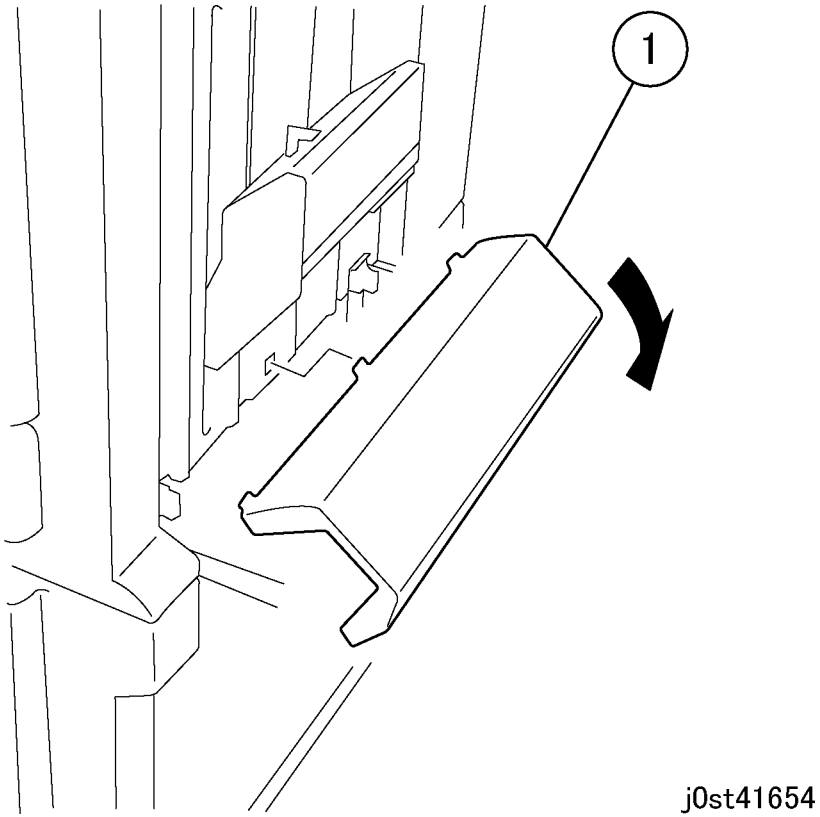


Figure 1 Removing the Right Cover (j0st41654)

3. Remove the cover. (Figure 2)
    1. Remove the cover.

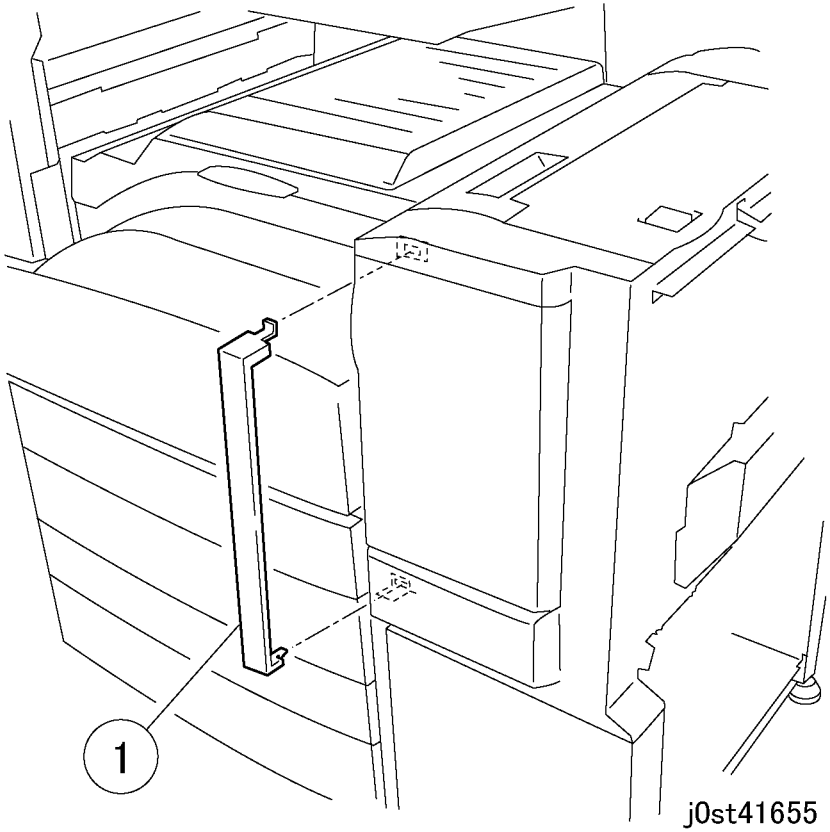


Figure 2 Removing the cover (j0st41655)

4. Remove the cover. (Figure 3)
    1. Remove the cover.

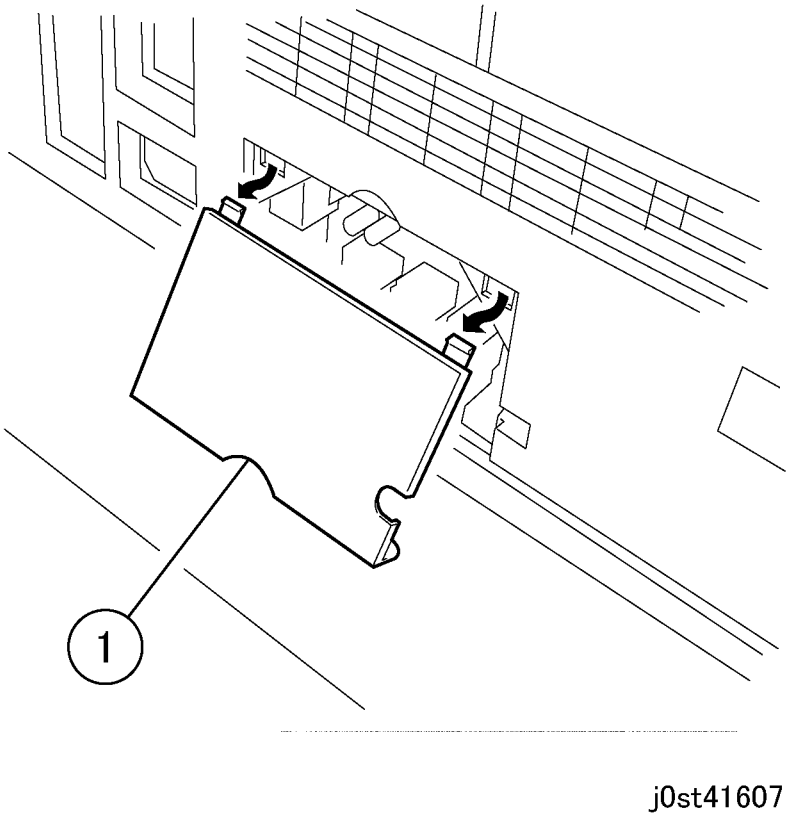


Figure 3 Removing the cover (j0st41607)

5. Remove the Left Panel. (Figure 4)
    1. Remove the Left Panel.

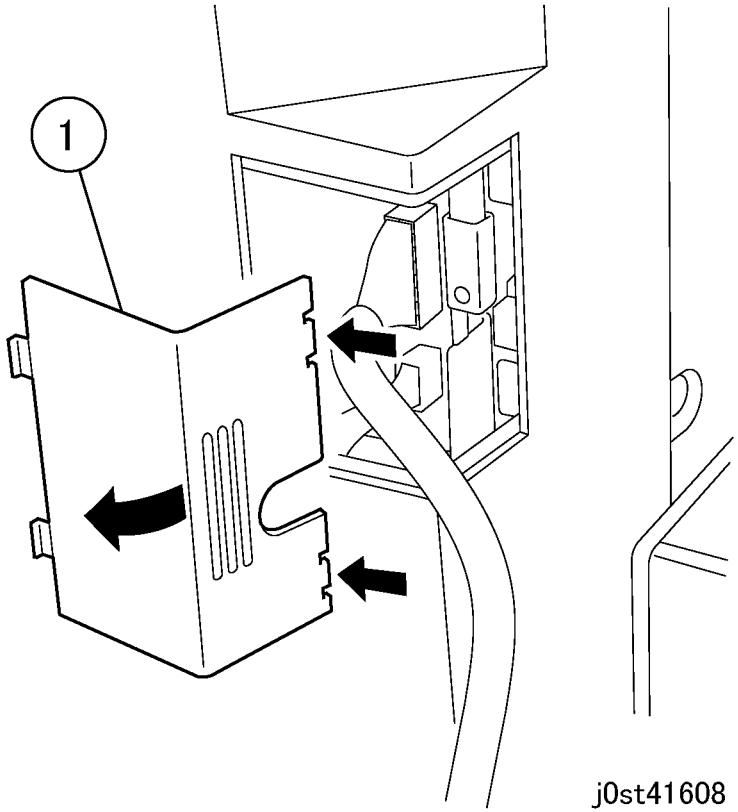


Figure 4 Removing the Left Panel (j0st41608)

6. Disconnect the cables and connectors. (Figure 5)
    1. Disconnect the connectors (x2).
    2. Disconnect the cable.

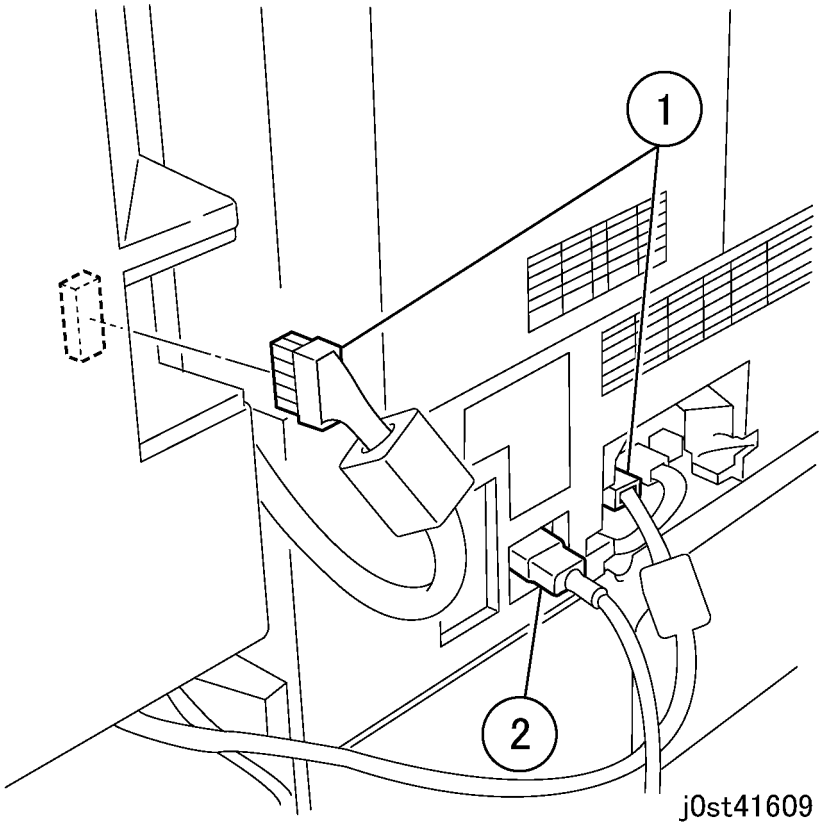


Figure 5 Disconnecting the cables and connectors (j0st41609)

7. Remove the Knob Screws. (Figure 6)
   1. Remove the Knob Screws (x2).

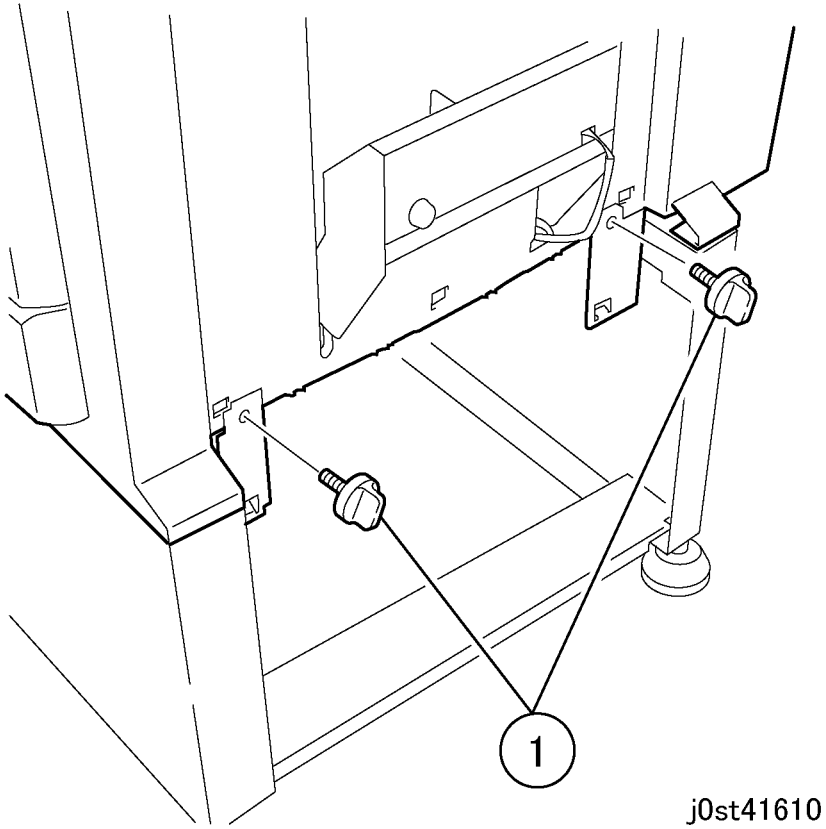


Figure 6 Removing the Knob Screws (j0st41610)

8. Move the Finisher Assembly to the left and lower it down from the rack. (Figure 7)
   1. Remove the Finisher Assembly.

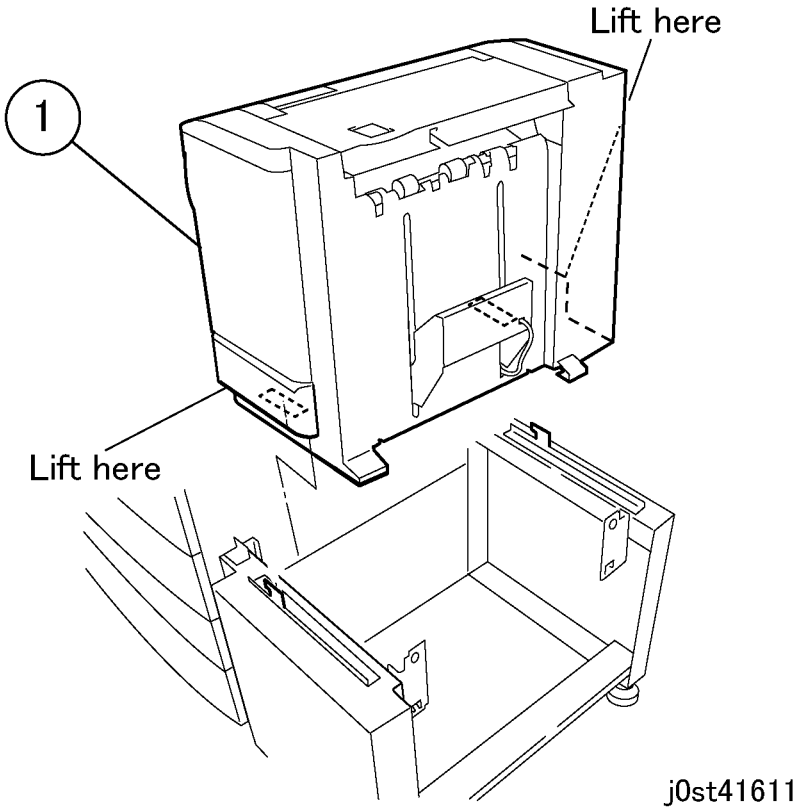


Figure 7 Removing the Finisher Assembly (j0st41611)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.3.1 H-Transport Belt

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

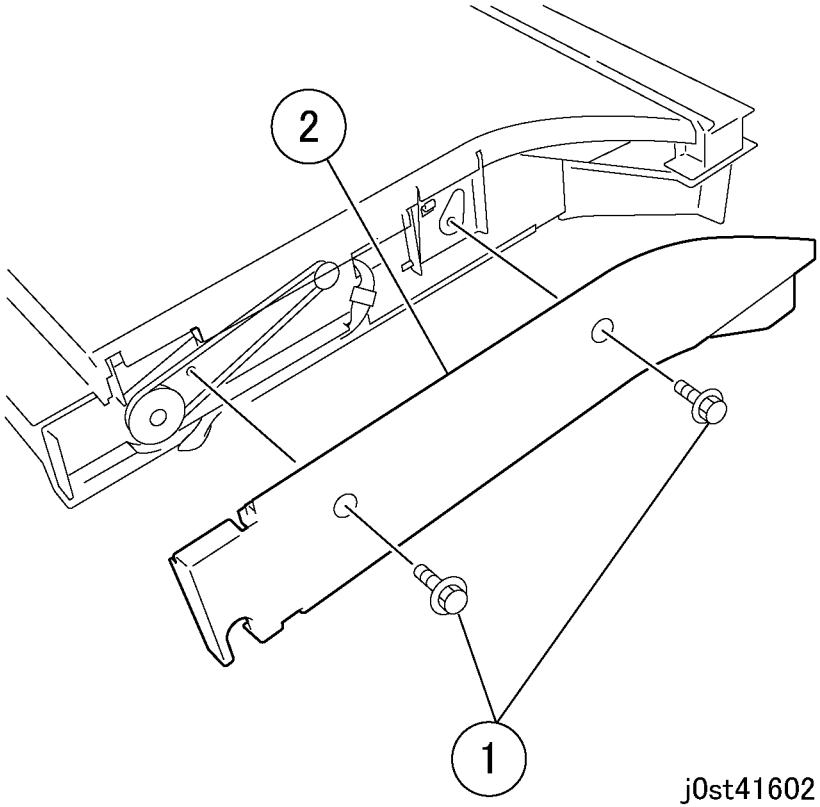


Figure 1 Removing the H-Transport Rear Cover (j0st41602)

3. Remove the belt. (Figure 2)
    1. Remove the E-Clip.
    2. Remove the belt.
    3. Remove the pulley and bearing.

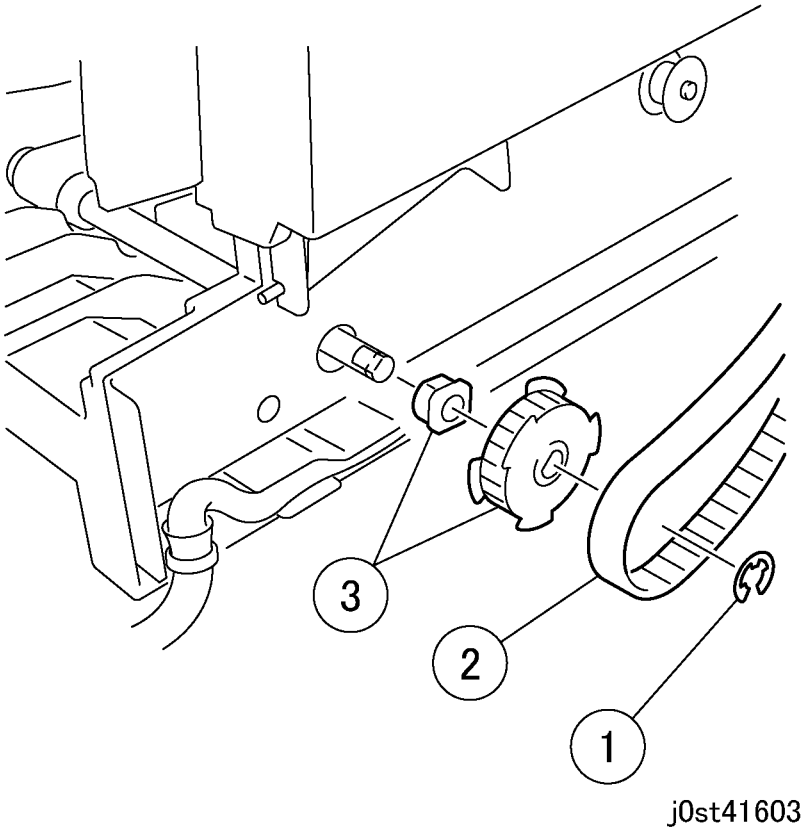


Figure 2 Removing the belt (j0st41603)

4. Remove the Transport Roll. (Figure 3)
    1. Remove the E-Clip and bearing.
    2. Remove the Transport Roll.

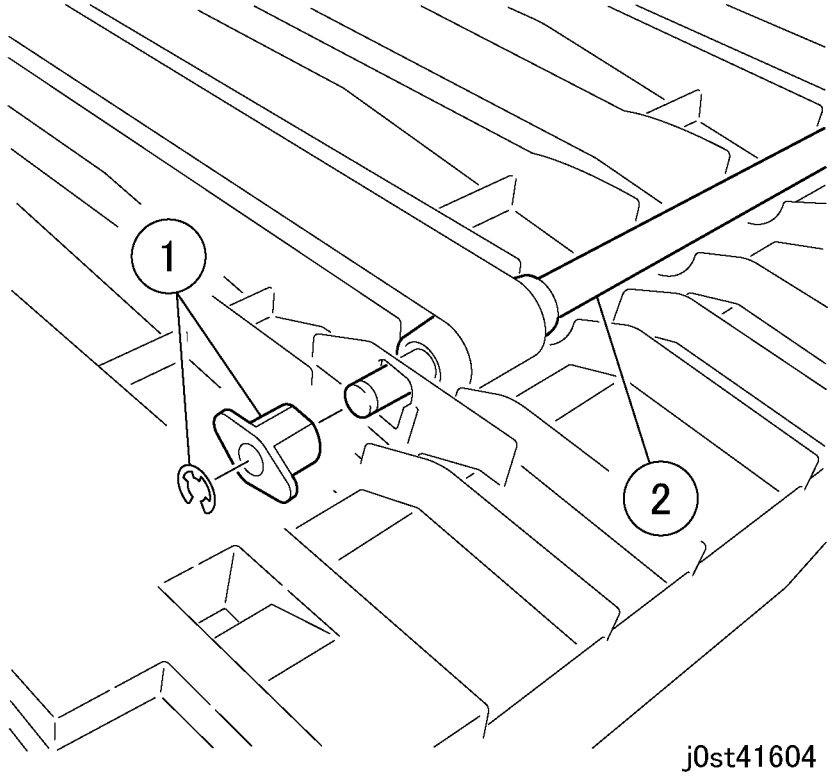


Figure 3 Removing the Transport Roll (j0st41604)

5. Remove the bracket. (Figure 4)
    1. Remove the screw.
    2. Remove the bracket.

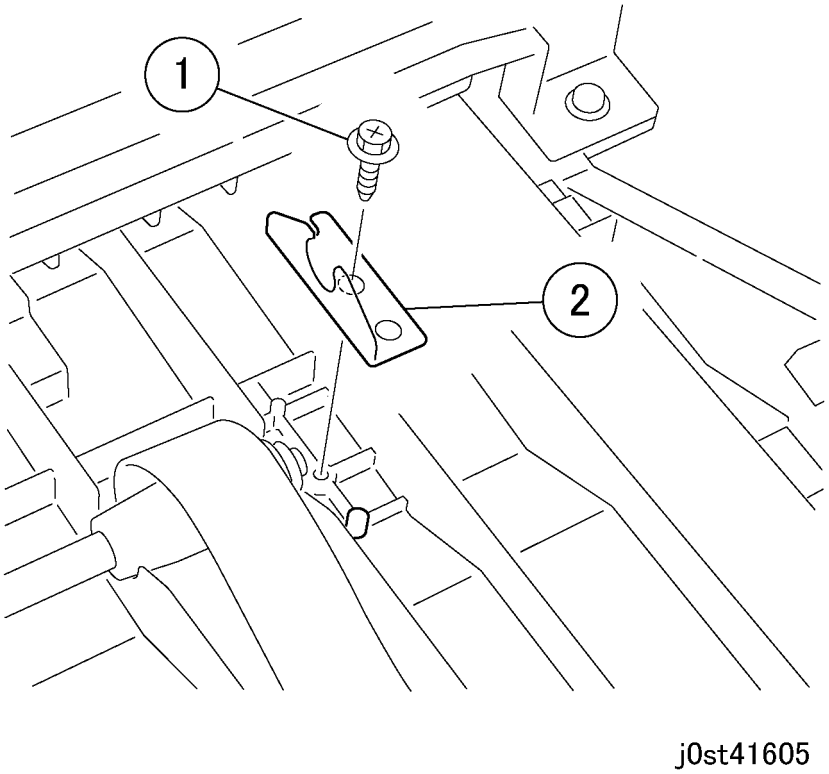


Figure 4 Removing the bracket (j0st41605)

6. Remove the H-Transport Belt. (Figure 5)
    1. Remove the rollers (x2).
    2. Remove the H-Transport Belts (x2).

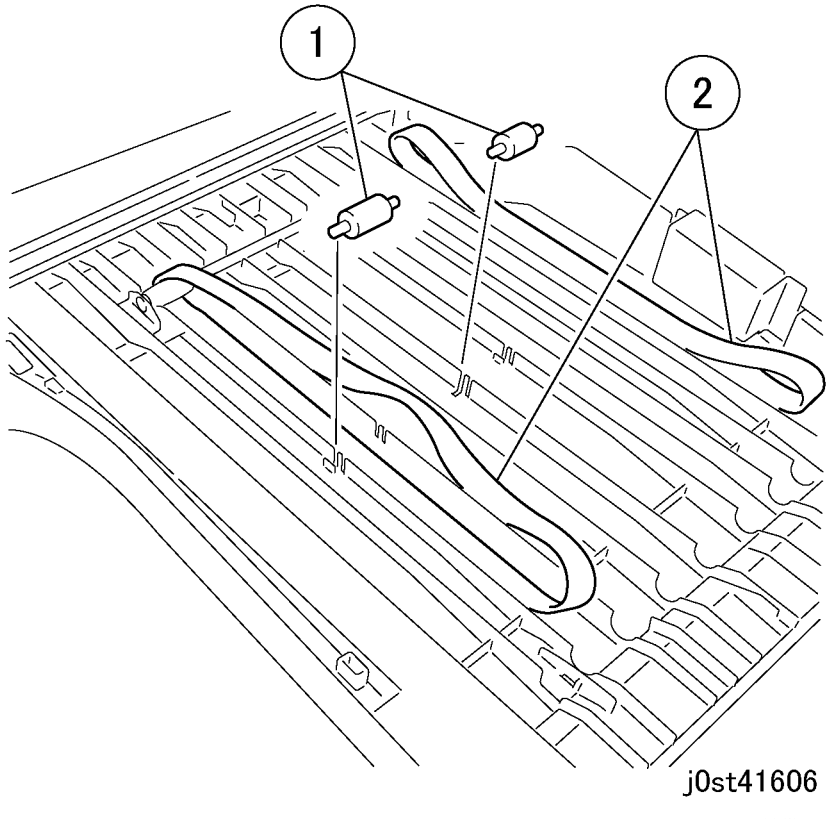


Figure 5 Removing the H-Transport Belt (j0st41606)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.4.1 Front Cover Assembly

Parts List on PL 16.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

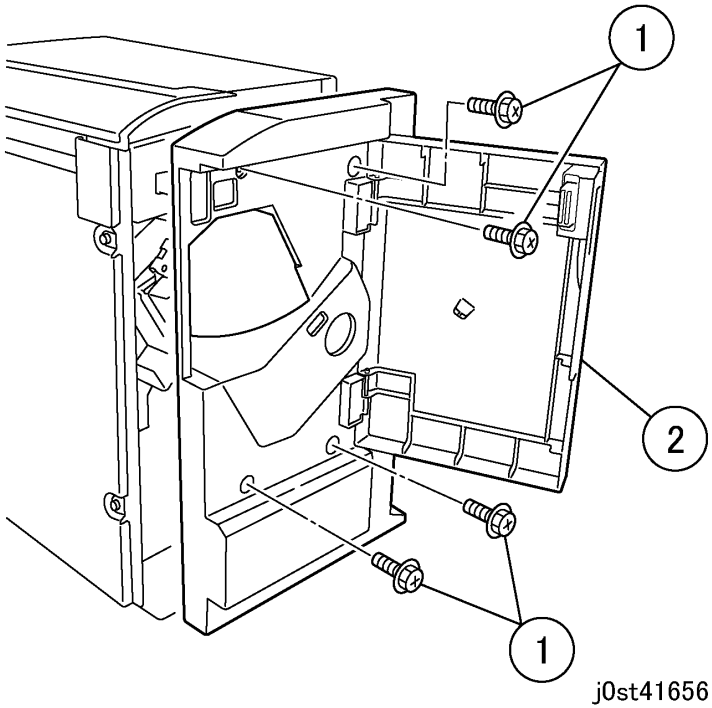


Figure 1 Removing the Front Cover Assembly (j0st41656)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.4.2 Rear Cover

Parts List on PL 16.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

1. Remove the Left Panel. (Figure 1)
    1. Remove the Left Panel.

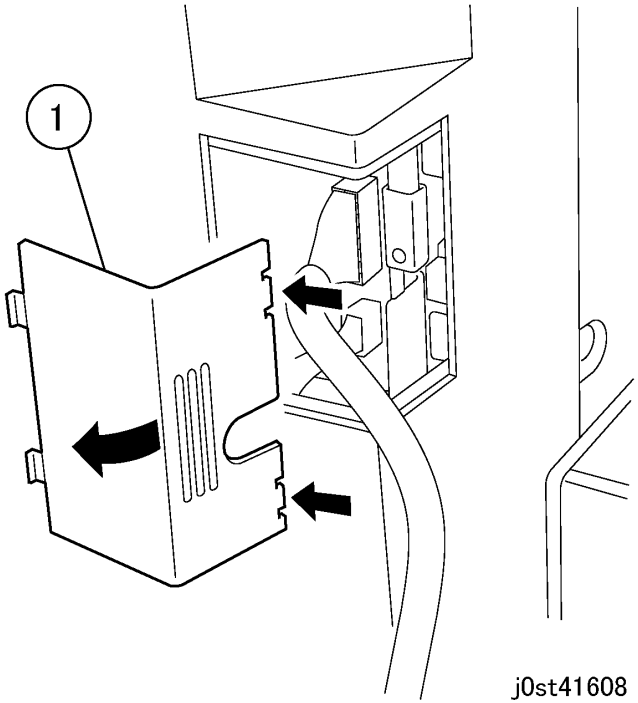


Figure 1 Removing the Left Panel (j0st41608)

2. Remove the connector. (Figure 2)
    1. Remove the connector.

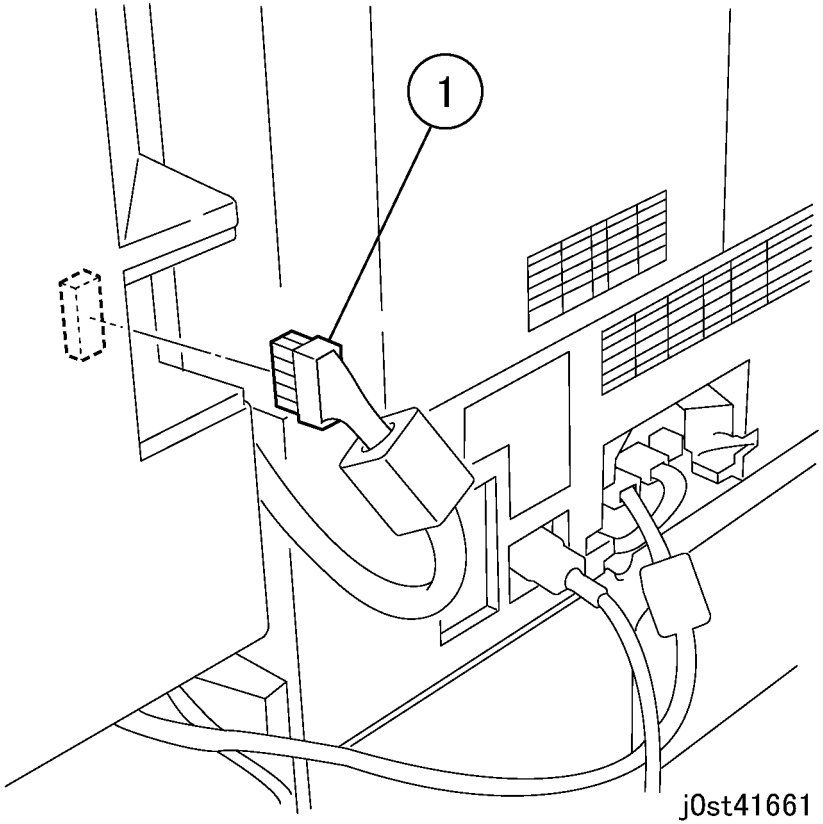


Figure 2 Removing the connector (j0st41661)

3. Remove the Rear Cover. (Figure 3)
    1. Remove the screws (x4).
    2. Remove the Rear Cover.

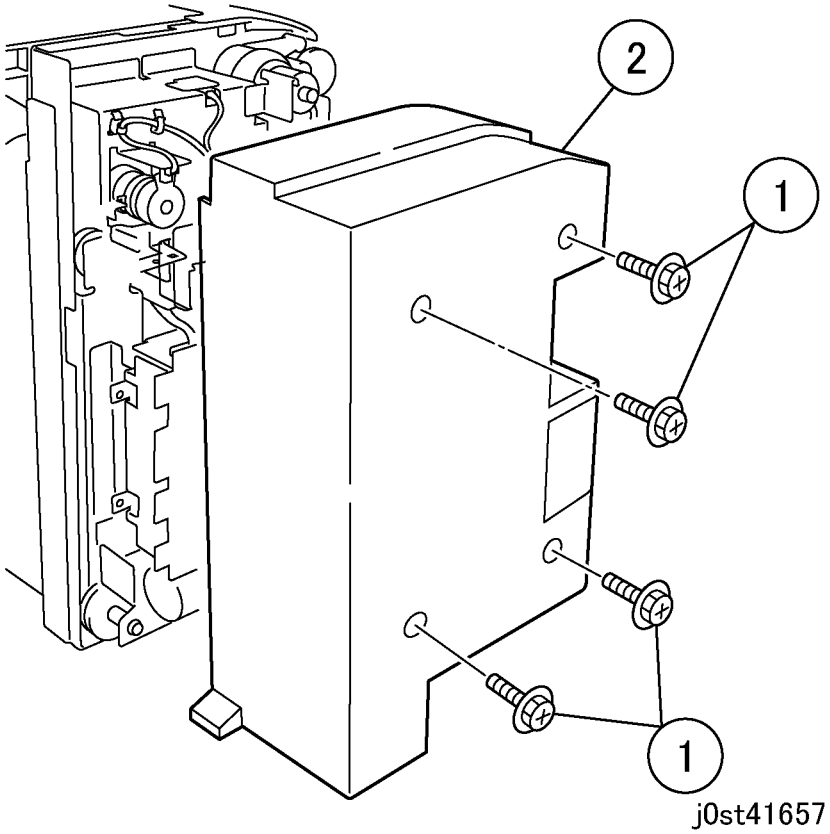


Figure 3 Removing the Rear Cover (j0st41657)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.5.1 Stack Height Sensor 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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

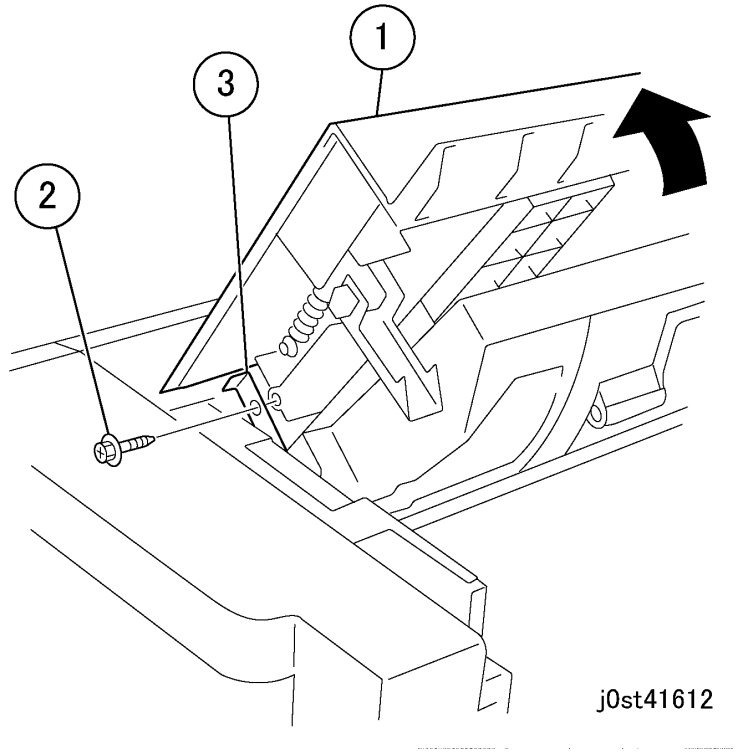


Figure 1 Removing the link (j0st41612)

2. Remove the Stack Height Sensor Assembly. (Figure 2)
    1. Remove the screw.
    2. Disconnect the connector.
    3. Remove the Stack Height Sensor Assembly.

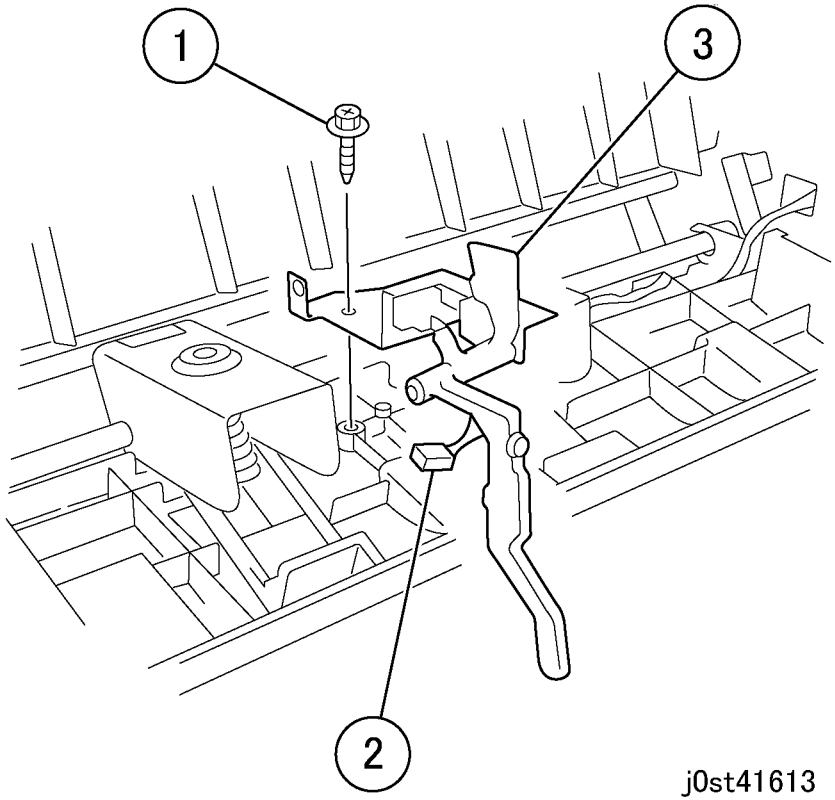


Figure 2 Removing the Stack Height Sensor Assembly (j0st41613)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.5.2 Eject Roll 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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

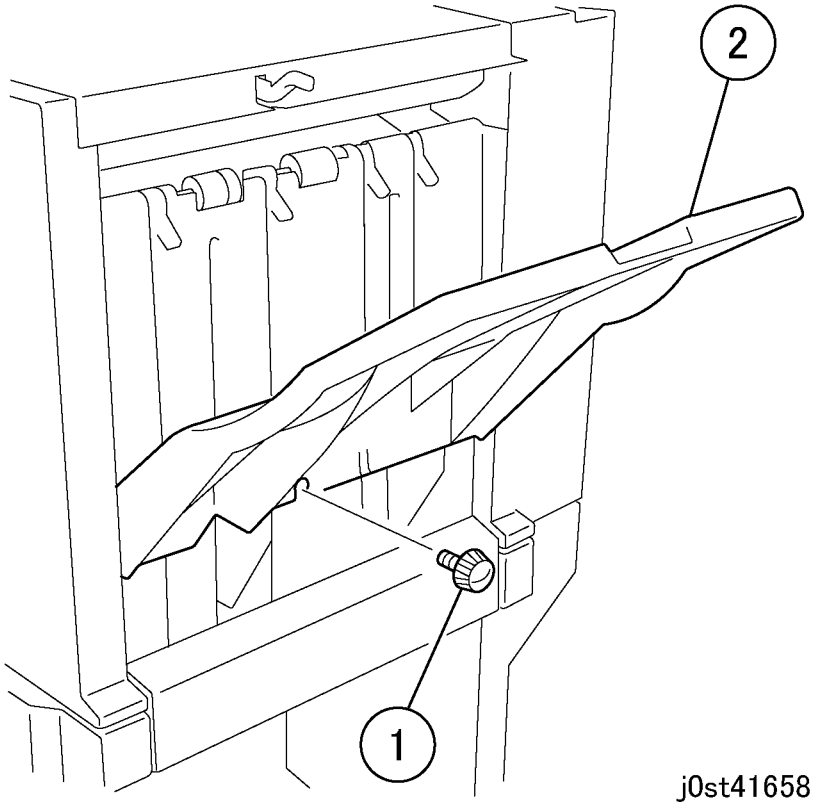


Figure 1 Removing the Stacker Tray (j0st41658)

3. Remove the Right Cover. (Figure 2)
   1. Remove the Right Cover.

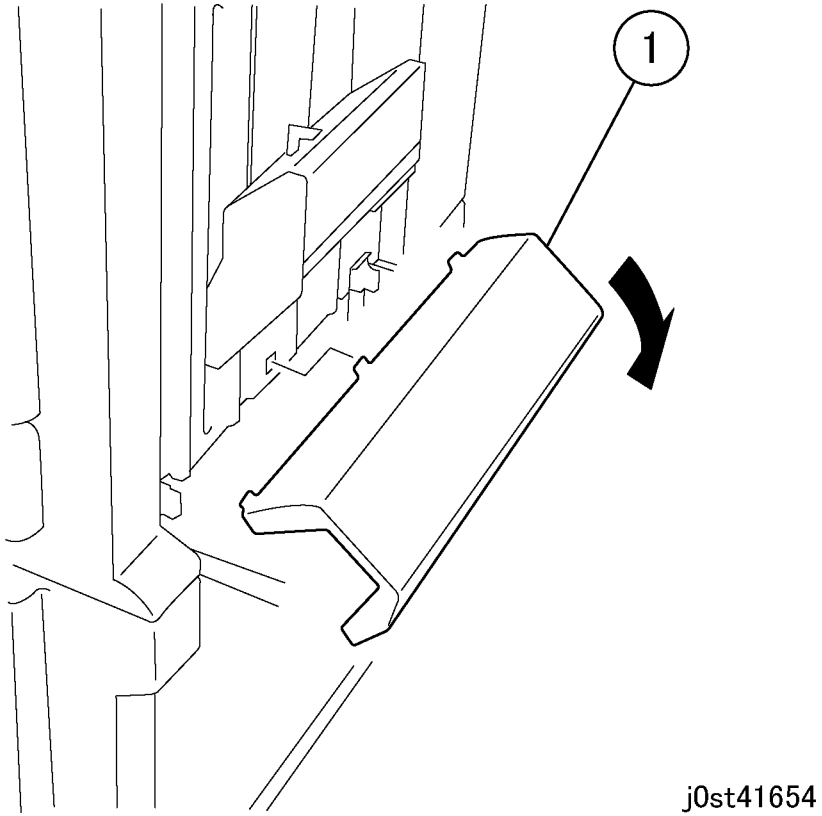


Figure 2 Removing the Right Cover (j0st41654)

4. Remove the bracket. (Figure 3)
   1. Remove the screws (x4).
   2. Remove the bracket.

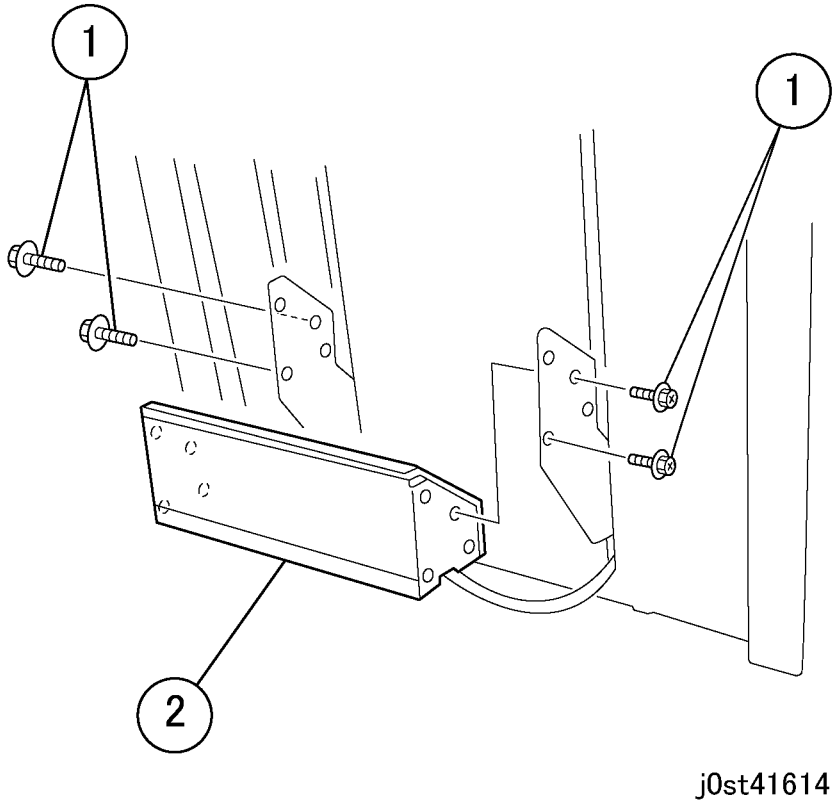


Figure 3 Removing the bracket (j0st41614)

5. Disconnect the connector. (Figure 4)
    1. Remove the screws (x2).
    2. Remove the plate.
    3. Disconnect the connector.

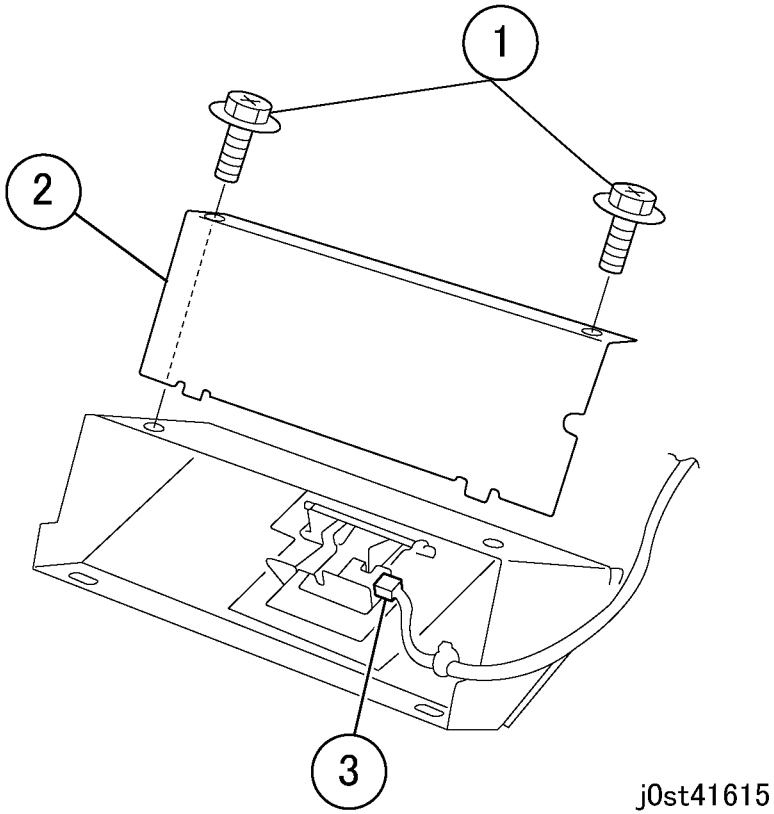


Figure 4 Disconnecting the connector (j0st41615)

6. Remove the Knob Screws. (Figure 5)
    1. Remove the Knob Screws (x2).

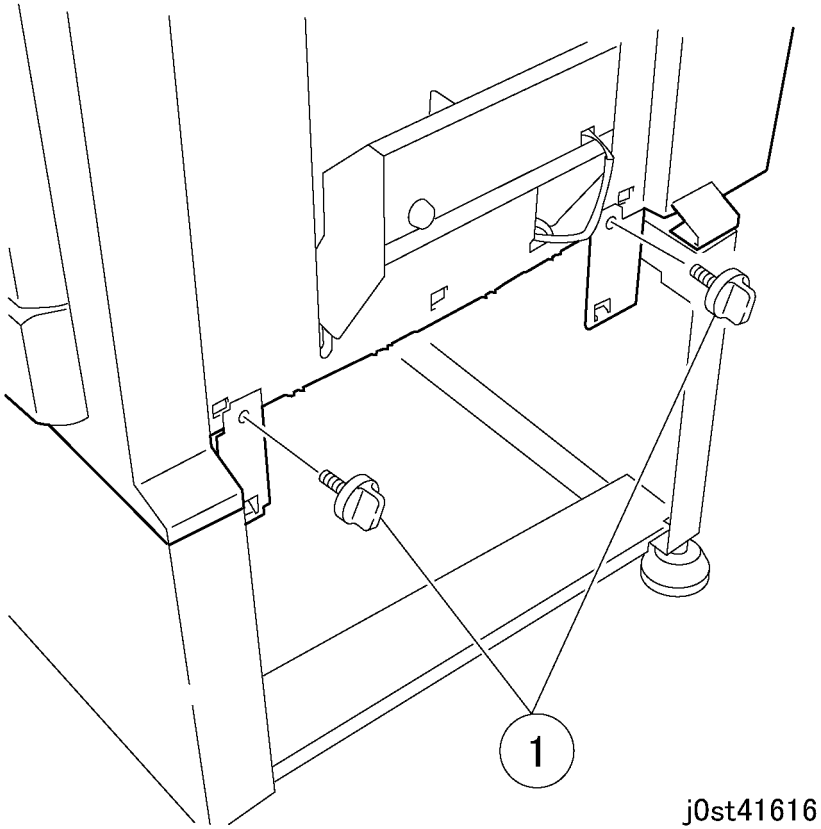


Figure 5 Removing the Knob Screws (j0st41616)

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.

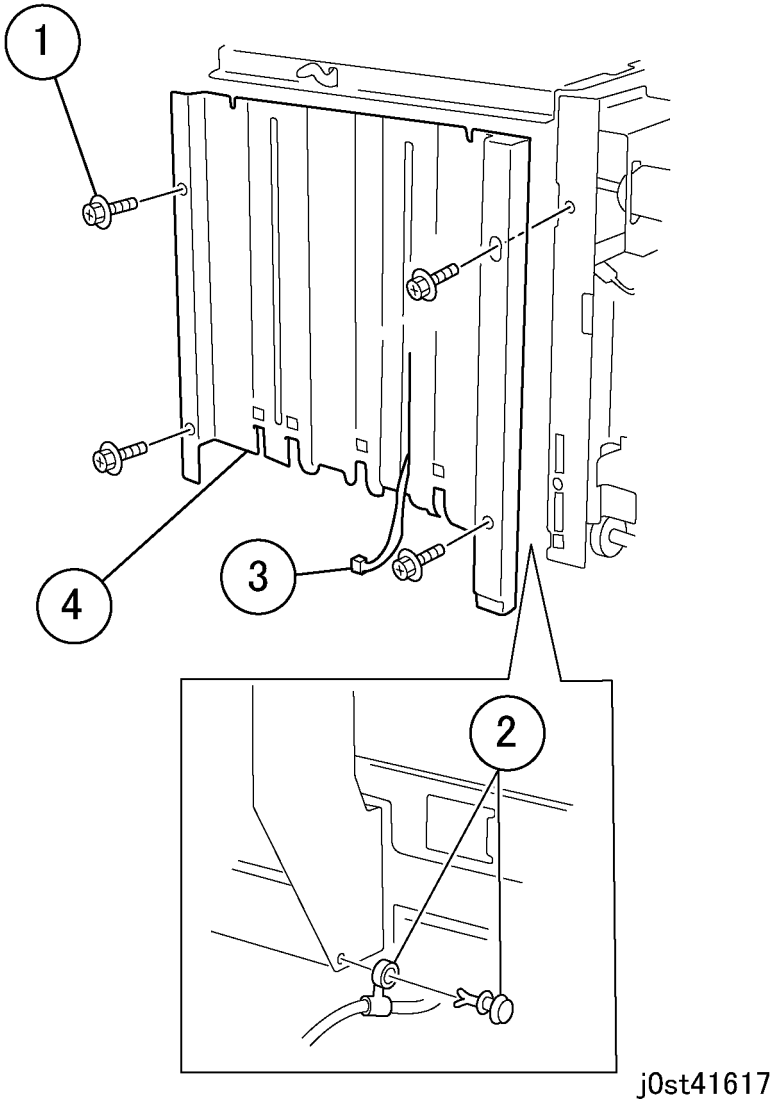


Figure 6 Removing the Tray Guide (j0st41617)

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.

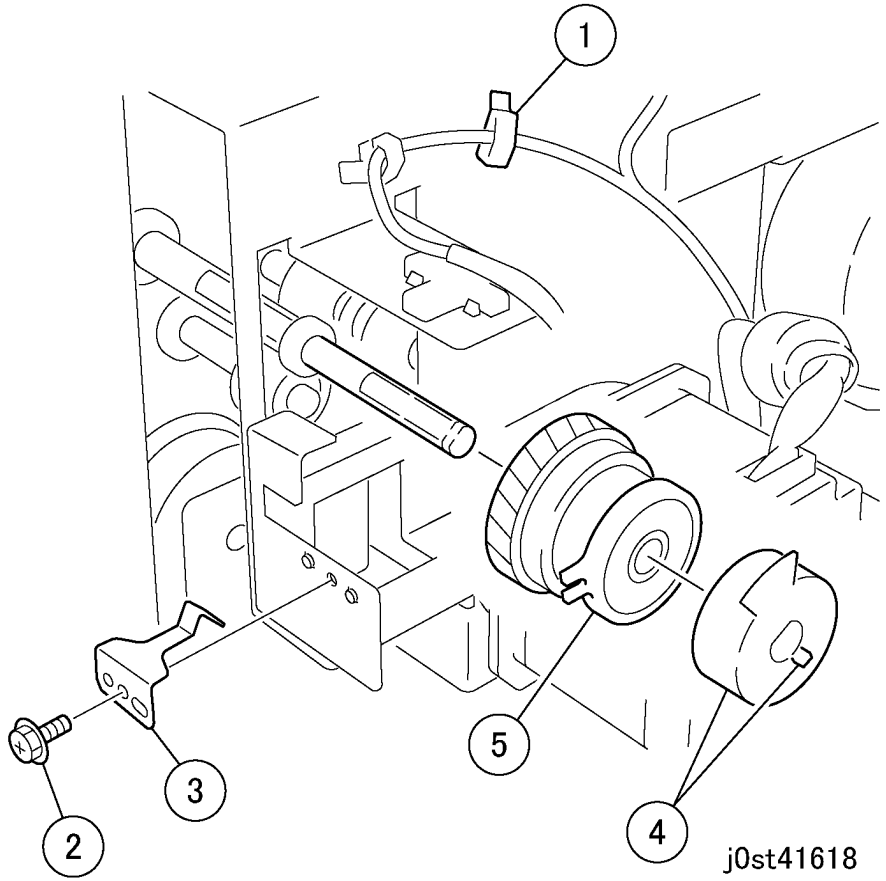


Figure 7 Removing the Set Clamp clutch (j0st41618)

9. Remove the Eject Roll. (Figure 8)
    1. Remove the KL-Clip and bearing on both sides.
    2. Remove the hook from the Eject Shaft.
    3. Remove the Eject Roll.

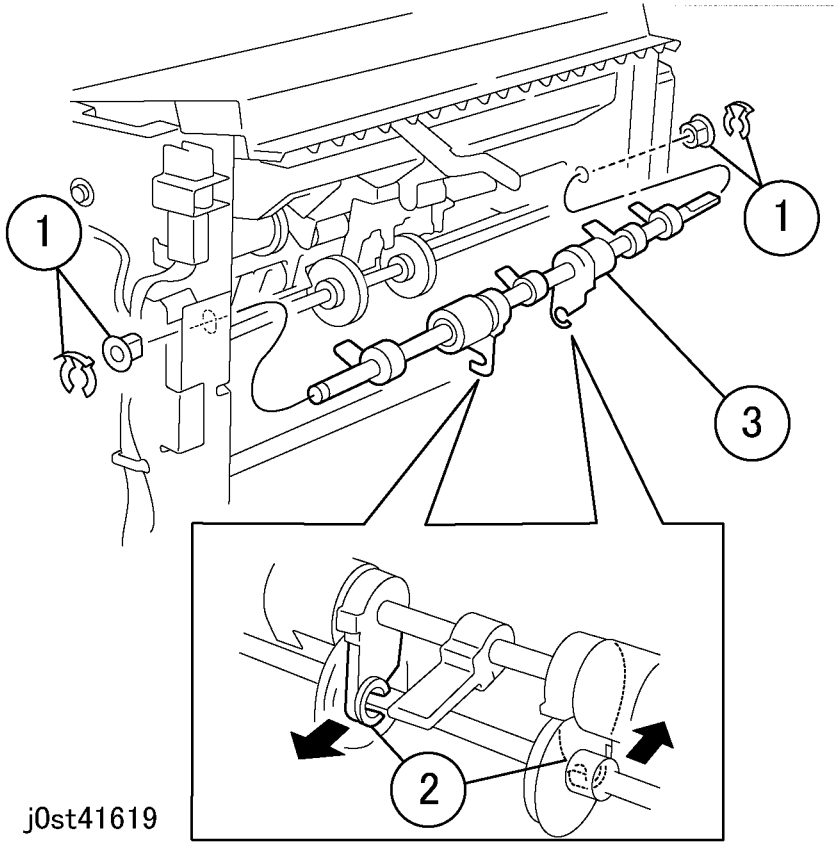


Figure 8 Removing the Eject Roll (j0st41619)

10. Remove the Eject Shaft. (Figure 9)
    1. Remove the KL-Clip and gear.
    2. Remove the KL-Clip and bearing on both sides.
    3. Remove the Eject Shaft.

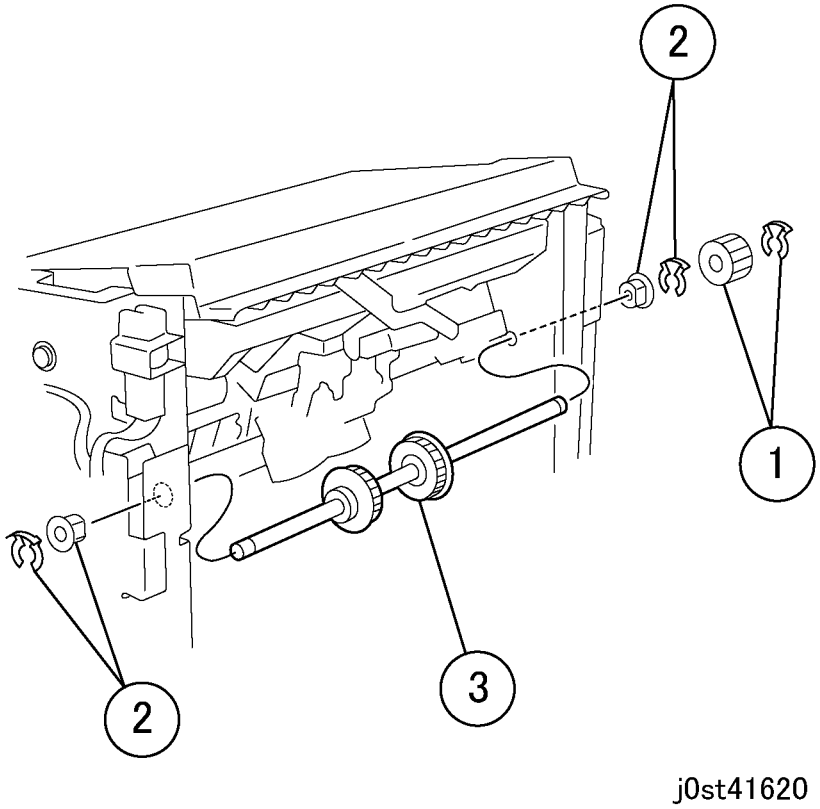


Figure 9 Removing the Eject Shaft (j0st41620)

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)*

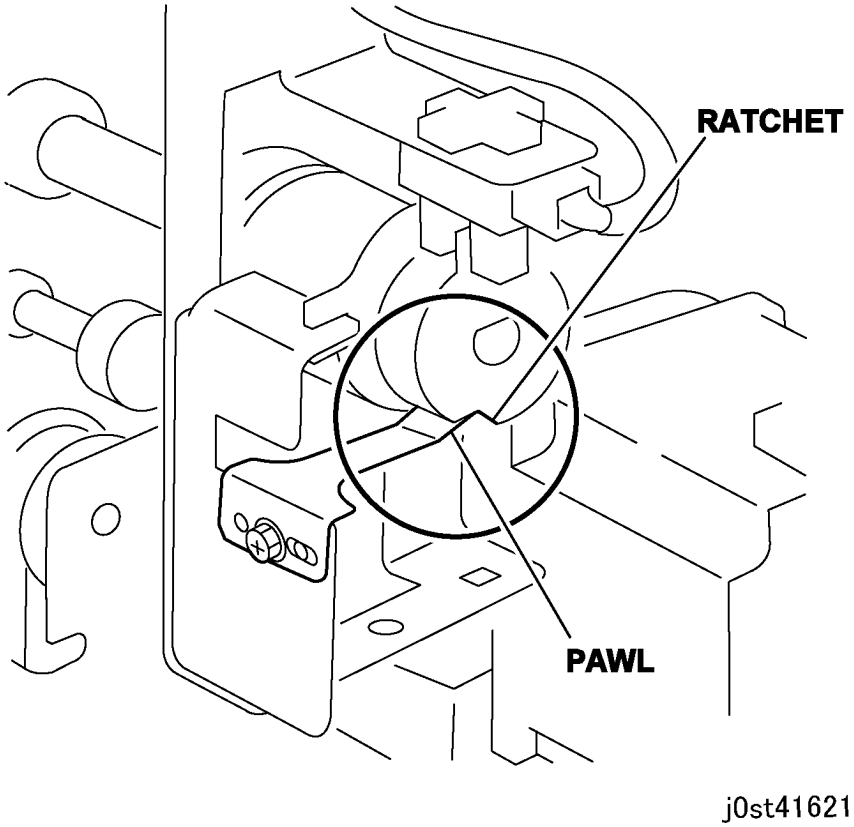


Figure 10 Installing the Actuator (j0st41621)

REP 16.6.1 Decurler Roll

Parts List on PL 16.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

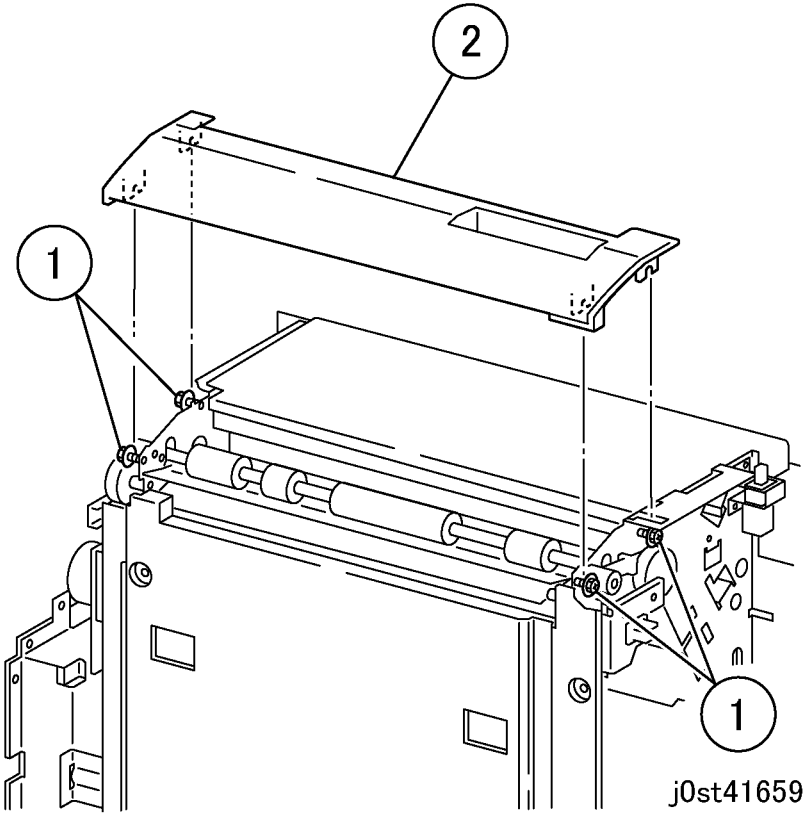


Figure 1 Removing the Top Cover (j0st41659)

3. Remove the arm. (Figure 2)
    1. Remove the spring.
    2. Remove the KL-Clip.
    3. Remove the arm.

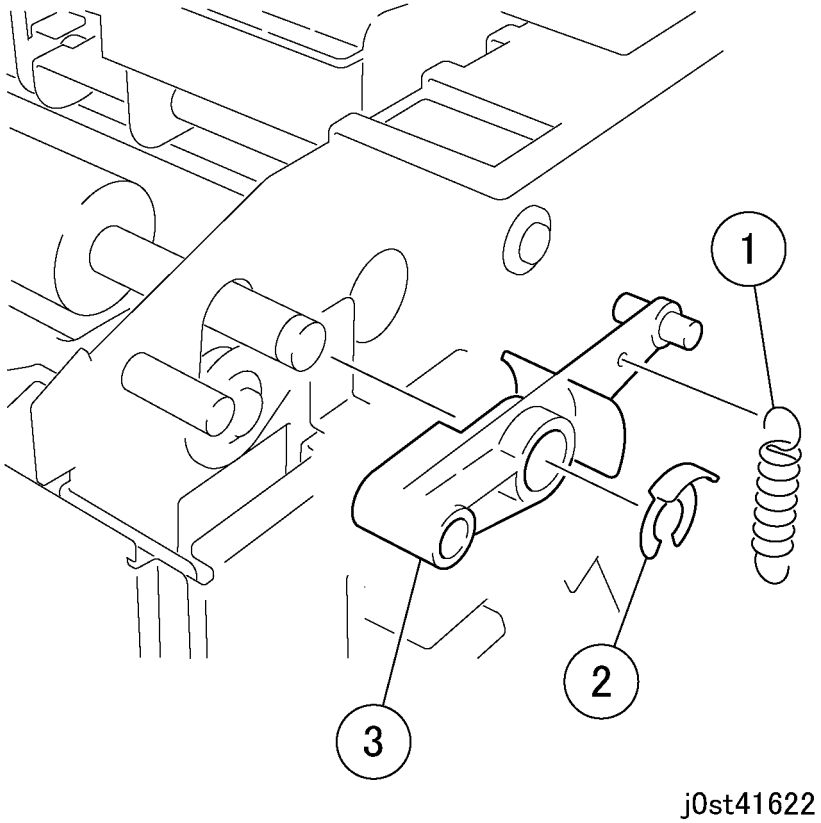


Figure 2 Removing the arm (j0st41622)

4. Remove the Decurler Roll Assembly. (Figure 3)
    1. Remove the spring.
    2. Remove the KL-Clip.
    3. Remove the arm.
    4. Remove the Decurler Roll Assembly.

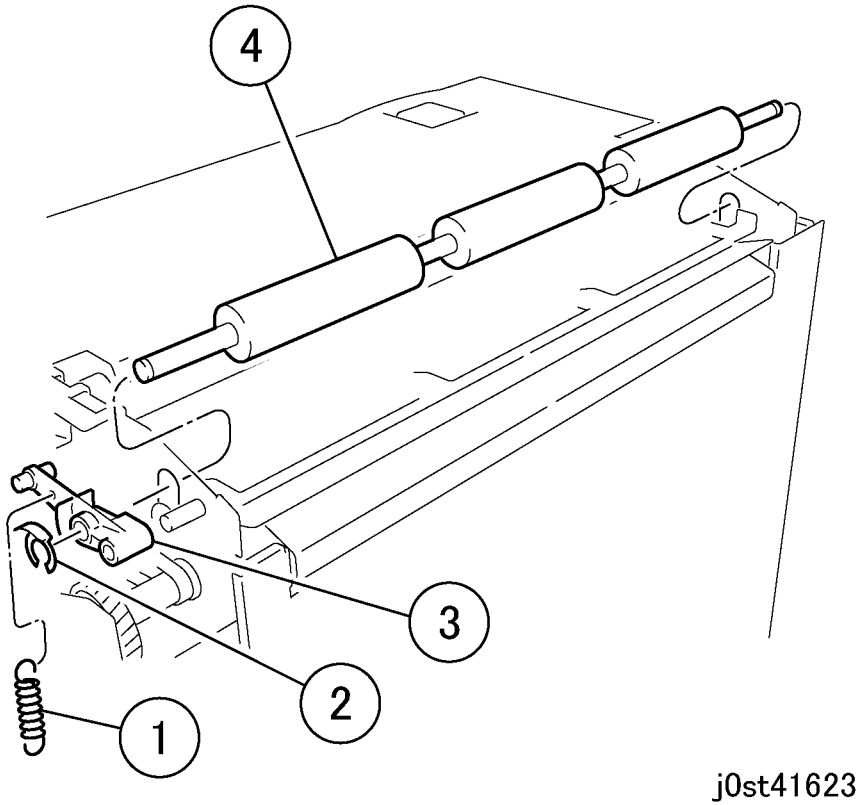


Figure 3 Removing the Decurler Roll Assembly (j0st41623)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.6.2 Finisher Drive Motor

Parts List on PL 16.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

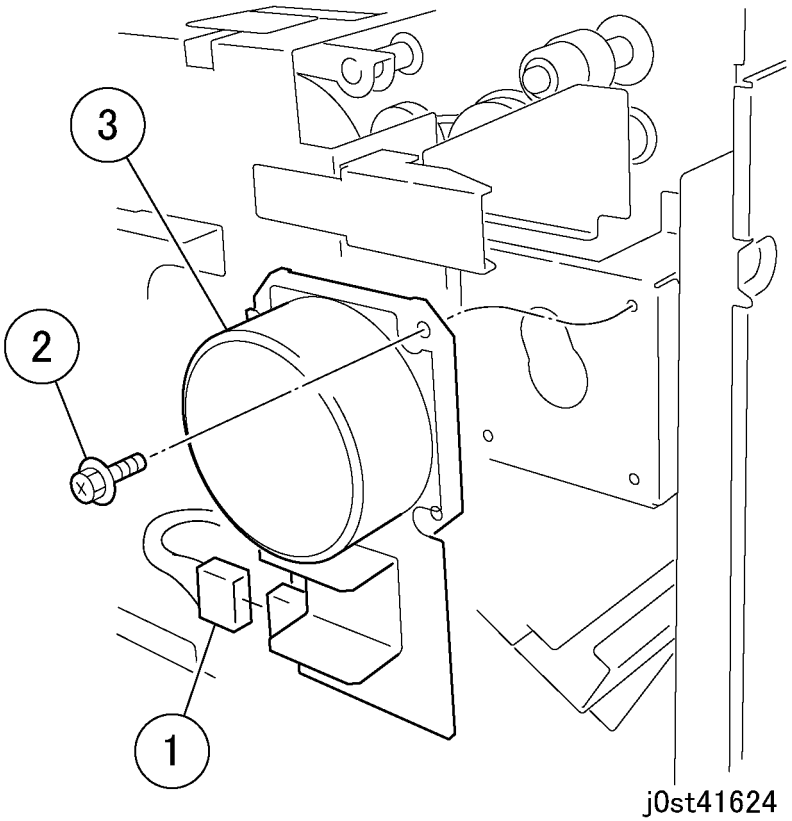


Figure 1 Removing the Finisher Drive Motor (j0st41624)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.7.1 Belt

Parts List on PL 16.7

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

[Printer Model]

Check that "Ready to Print/Send" 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.

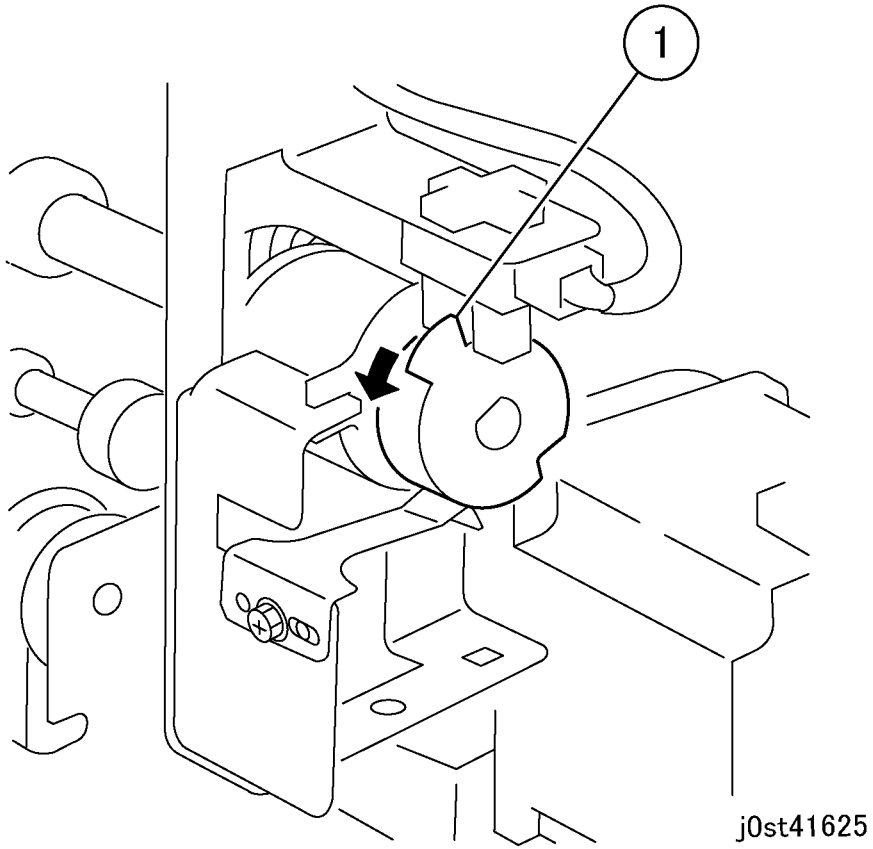


Figure 1 Turning the actuator (j0st41625)

3. Release the clamp to remove the wire. (Figure 2)
    1. Disconnect the connectors (x4).
    2. Release the Edge Saddle to remove the wire.

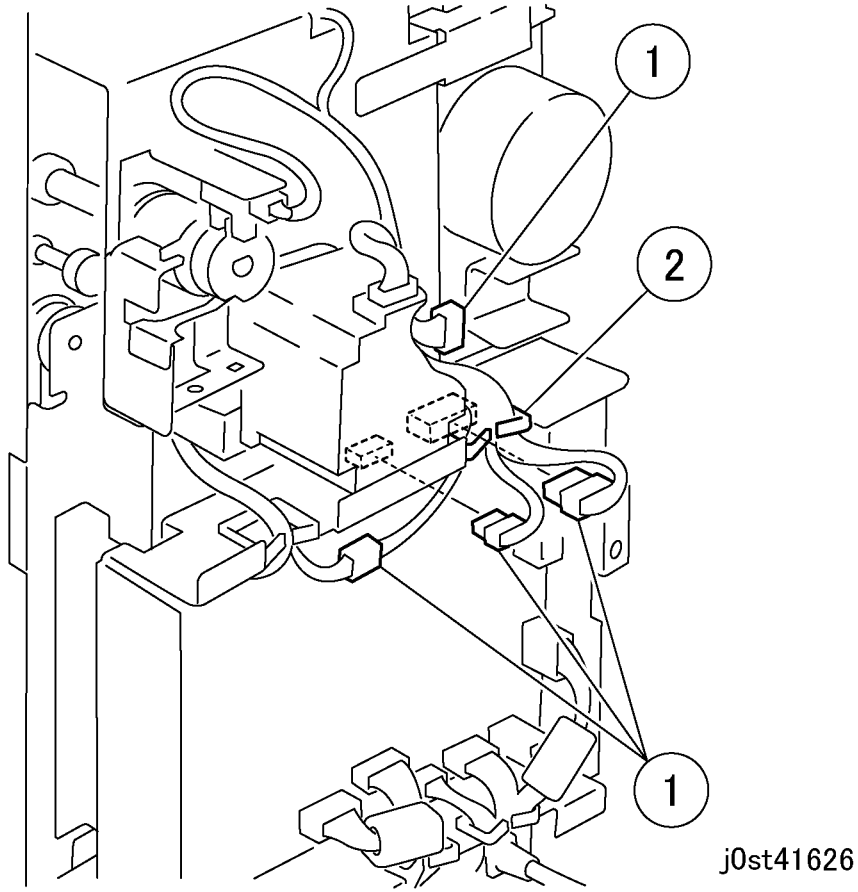


Figure 2 Disconnecting the connectors (j0st41626)

4. Remove the Cam Bracket Assembly. (Figure 3)
    1. Remove the screws (x4).
    2. Remove the Cam Bracket Assembly.

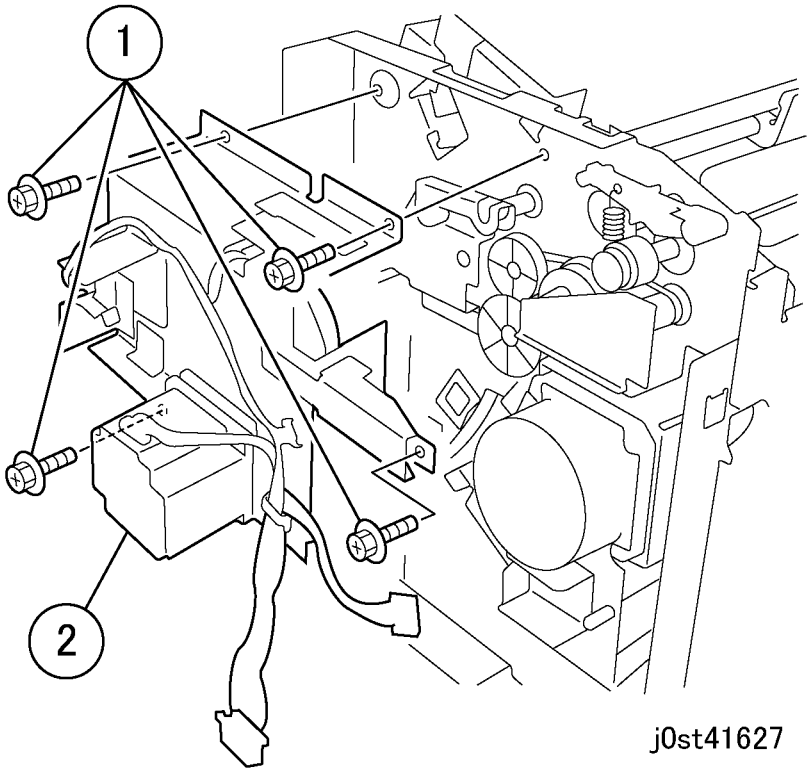


Figure 3 Removing the Cam Bracket Assembly (j0st41627)

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 belt.

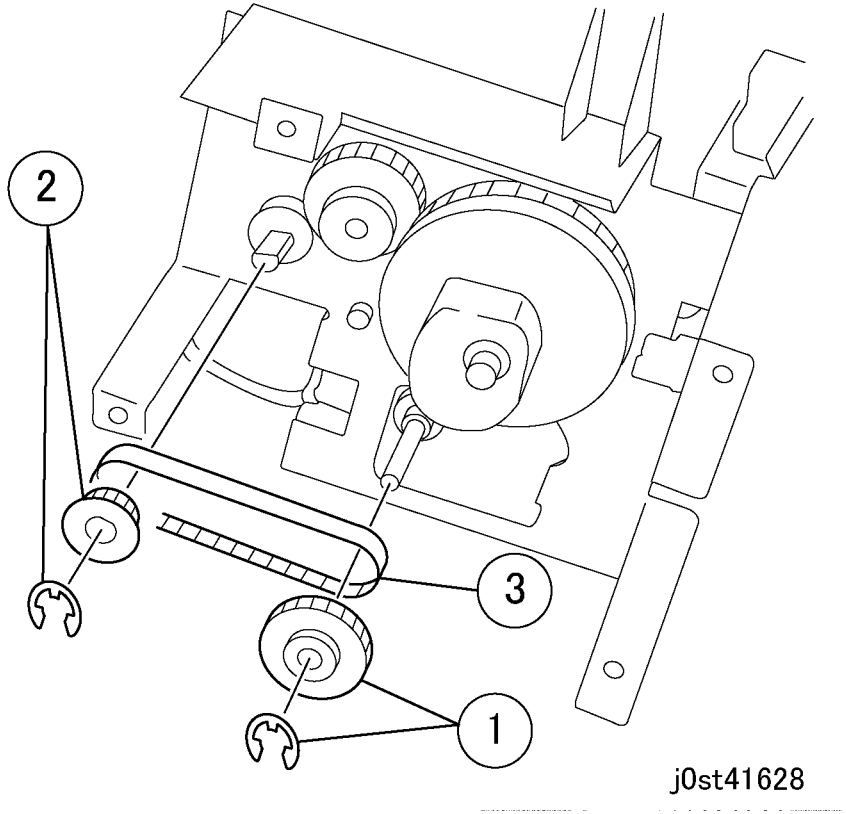


Figure 4 Removing the belt (j0st41628)

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.

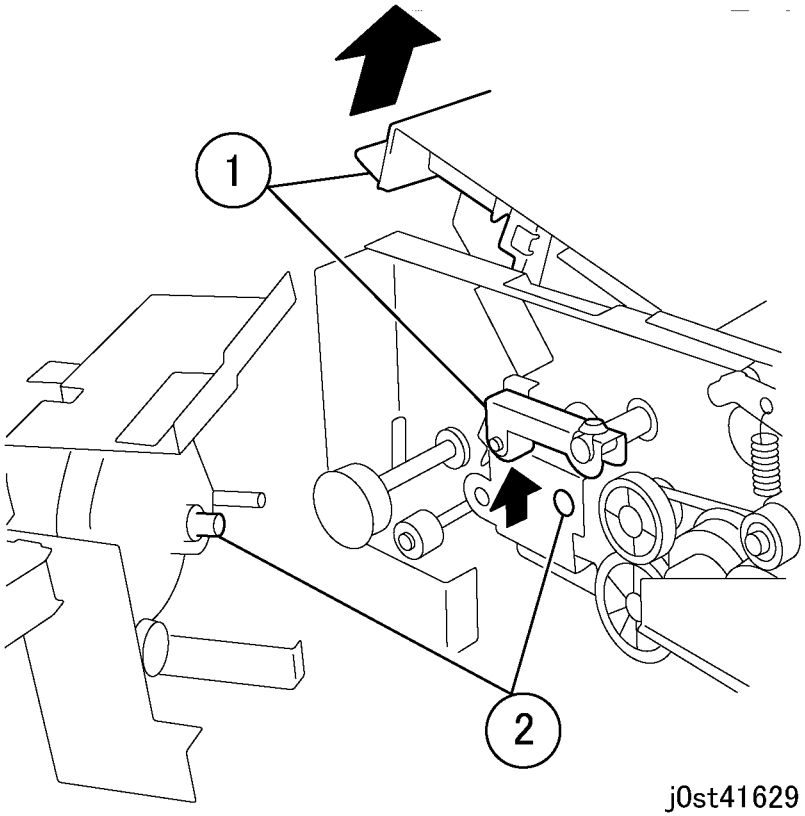


Figure 5 Installing the Cam Bracket Assembly (j0st41629)

NOTE: *When installing the Actuator, ensure the stopper is inserted into the ditch of the Actuator as illustrated below. (Figure 6)*

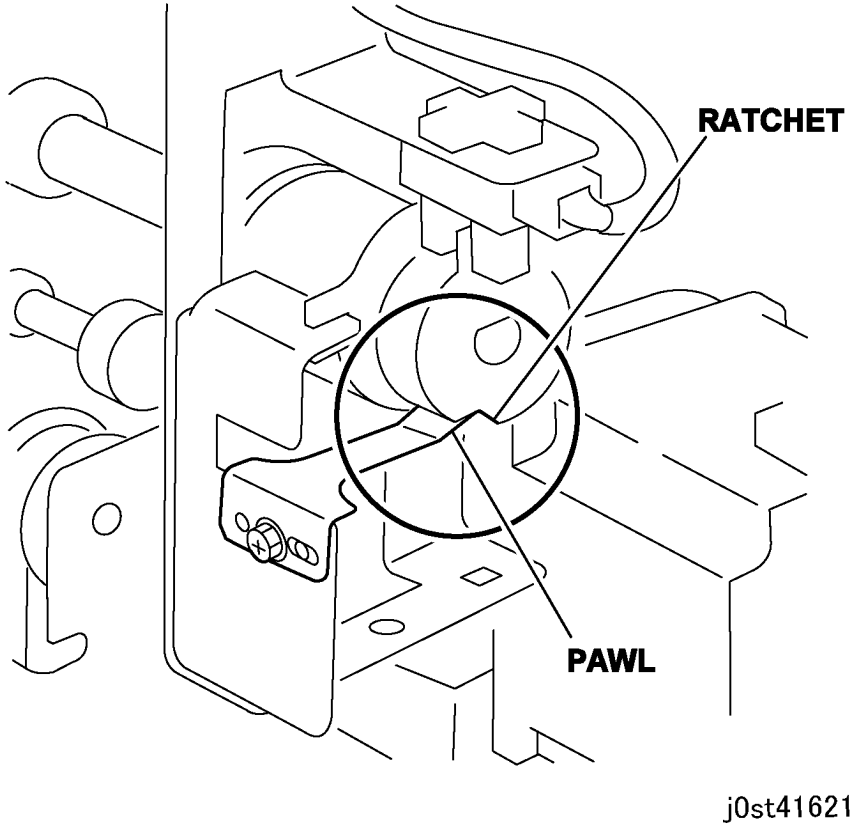


Figure 6 Installing the Actuator (j0st41621)

REP 16.8.1 Rail

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

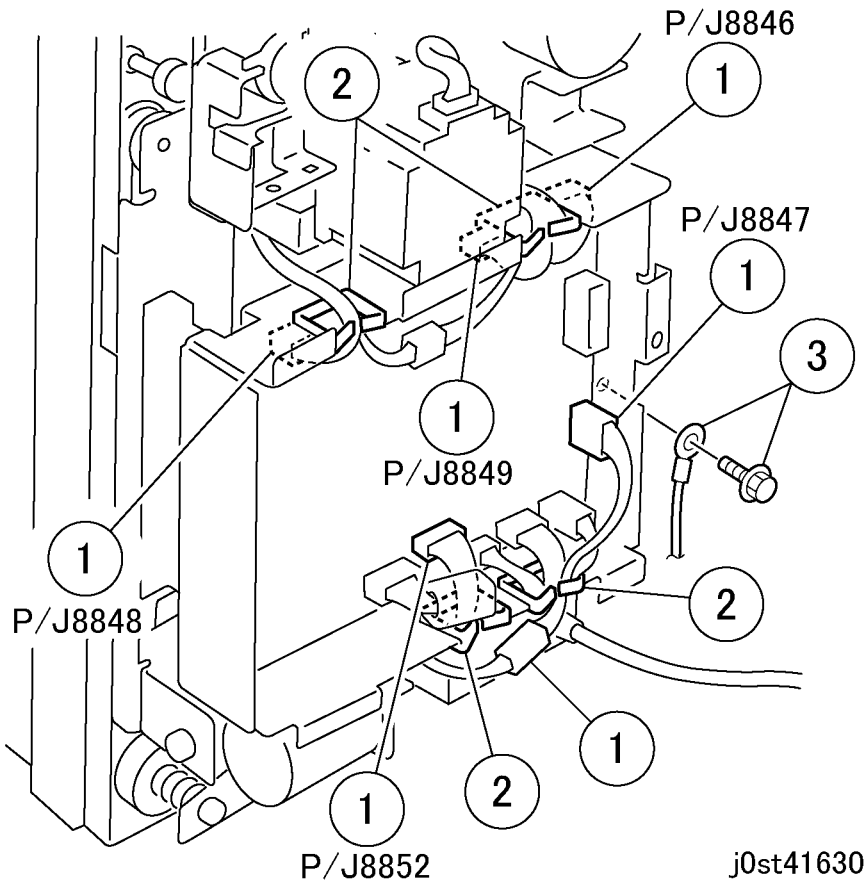


Figure 1 Disconnecting the connectors (j0st41630)

3. Remove the bracket. (Figure 2)
    1. Remove the screw.
    2. Loosen the screws (x2).
    3. Remove the bracket.

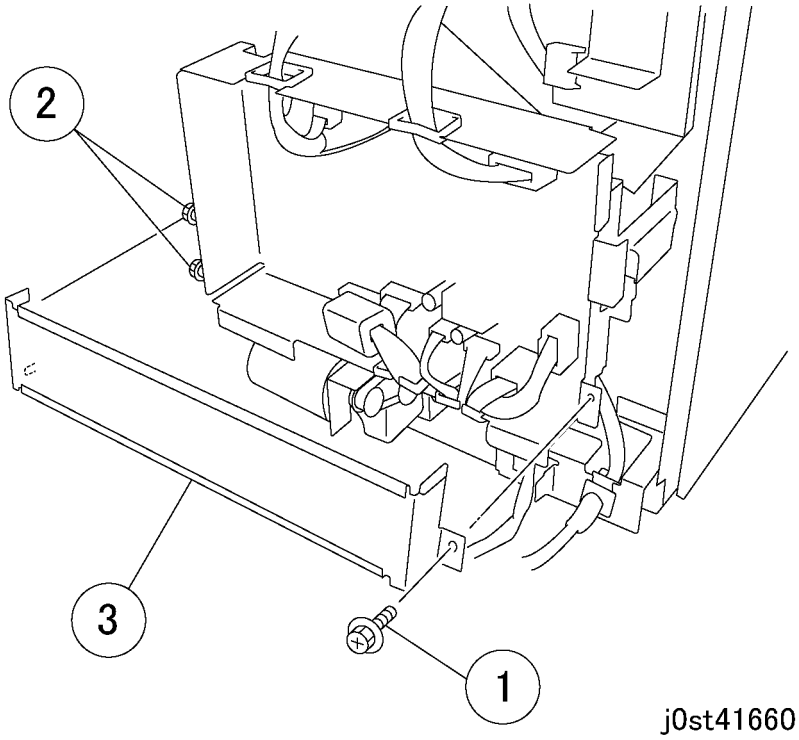


Figure 2 Removing the bracket (j0st41660)

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.

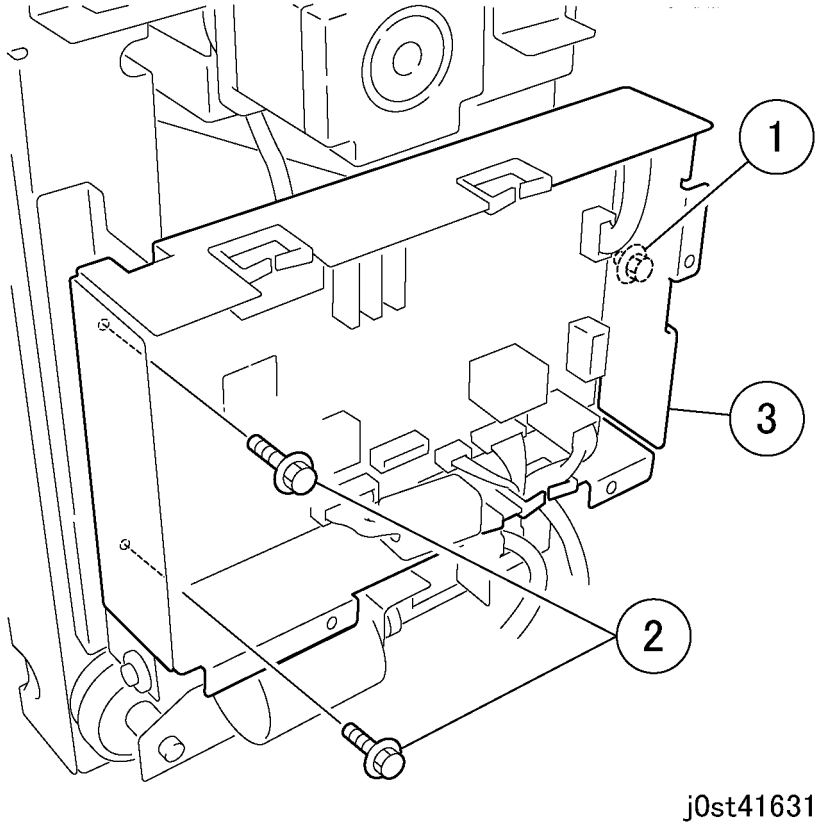


Figure 3 Moving the PWB Bracket (j0st41631)

5. Pull out the Wire Harness. (Figure 4)
    1. Remove the screws (x2).
    2. Pull out the Wire Harness.

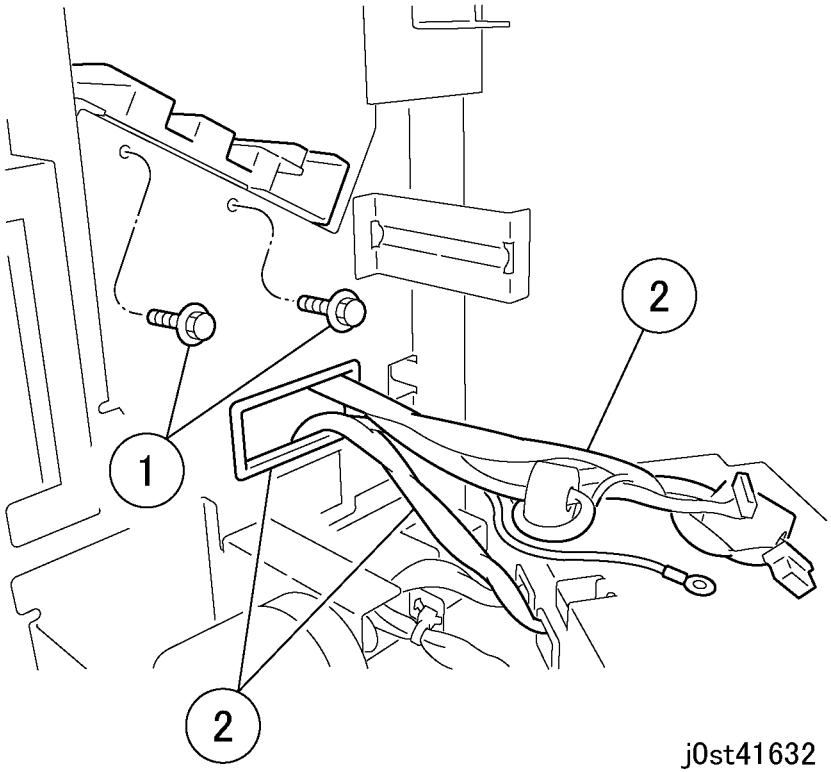


Figure 4 Pulling out the Wire Harness (j0st41632)

6. Remove the screws. (Figure 5)
    1. Disconnect the connector.
    2. Remove the screws (x2).

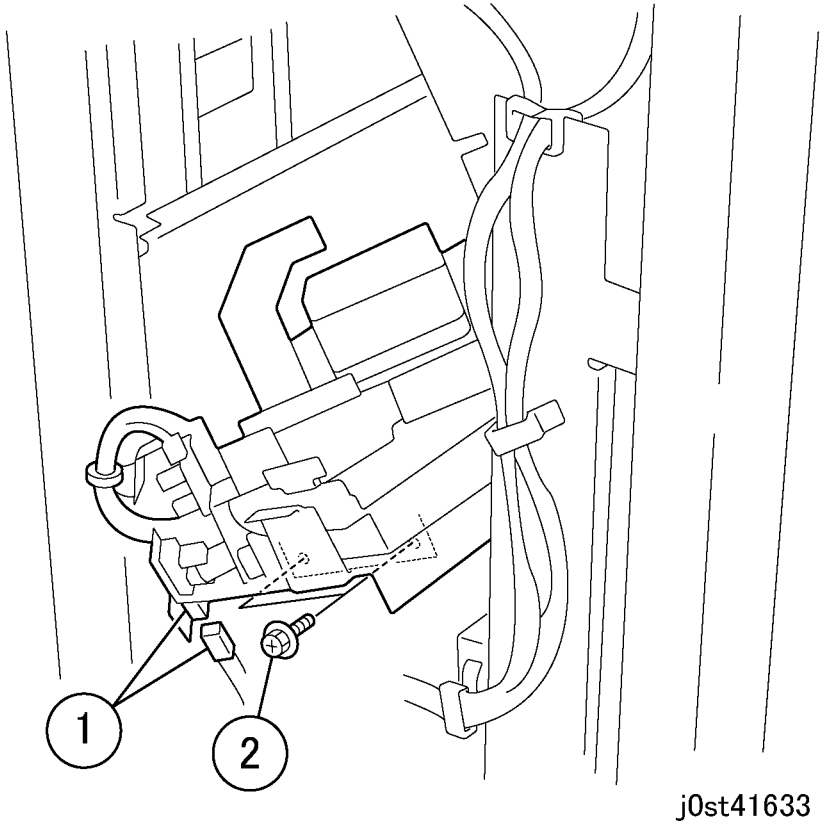


Figure 5 Removing the screws (j0st41633)

7. Remove the Rail Assembly. (Figure 6)
    1. Remove the Rail Assembly.

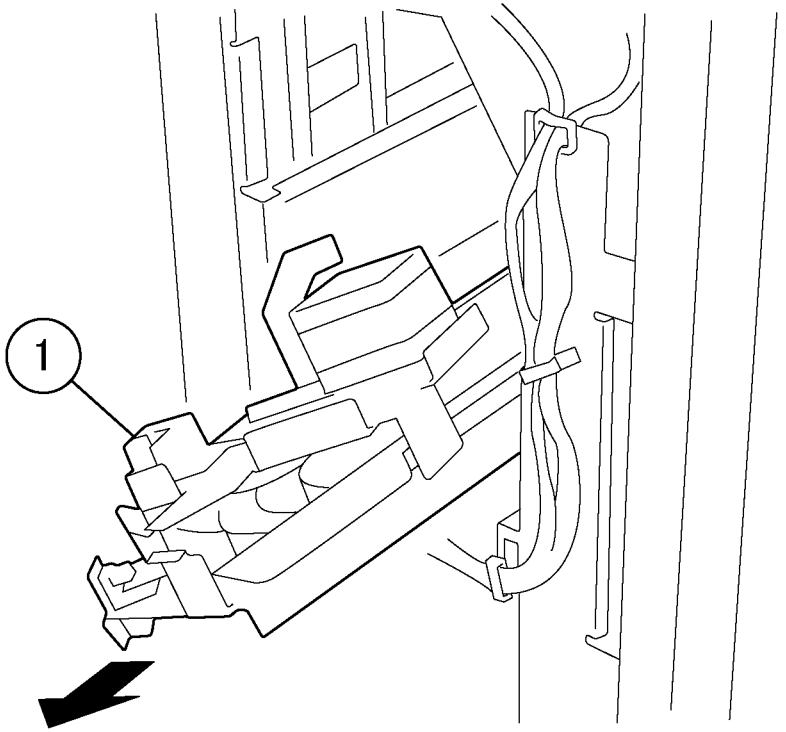


Figure 6 Removing the Rail Assembly (j0st41634)

8. To remove the Carriage Assembly, move it in the direction of the arrow. (Figure 7)
    1. Remove the Carriage Assembly.

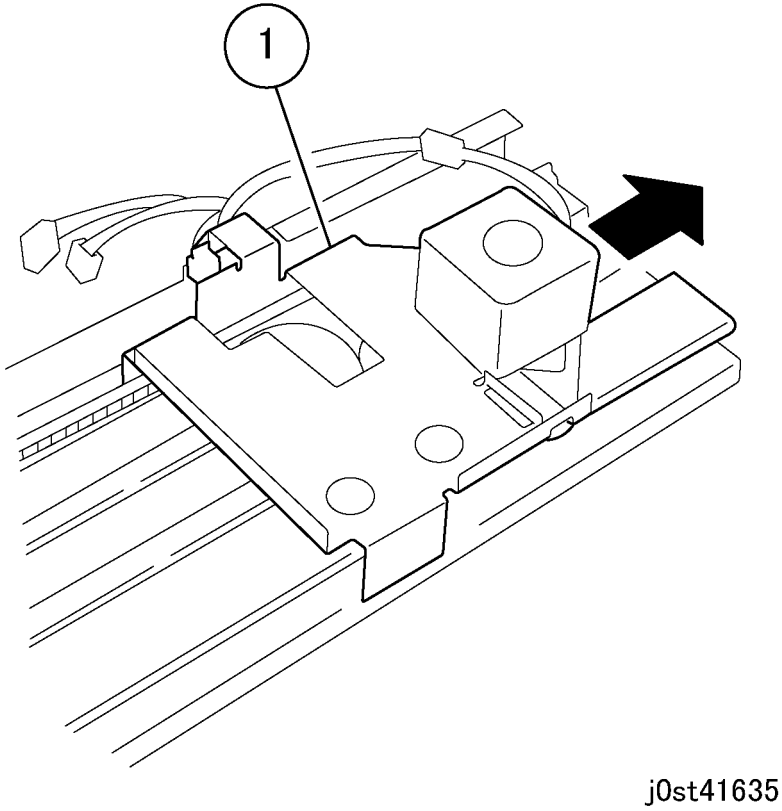


Figure 7 Removing the Carriage Assembly (j0st41635)

9. Remove the rail. (Figure 8)
    1. Remove the screws (x5).
    2. Remove the rail.

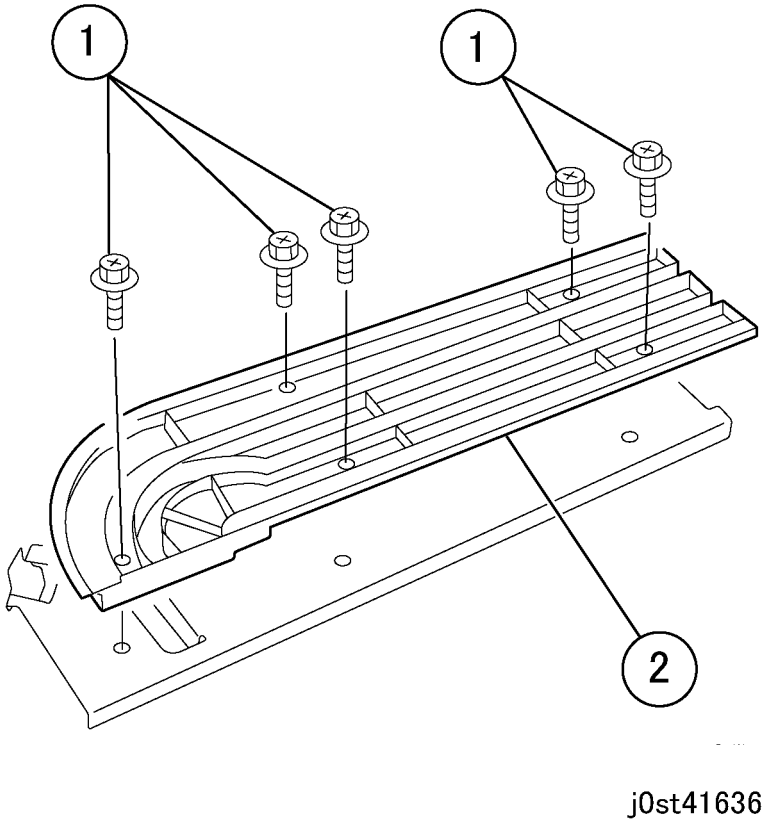


Figure 8 Removing the rail (j0st41636)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.8.2 Staple Assembly

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.

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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).

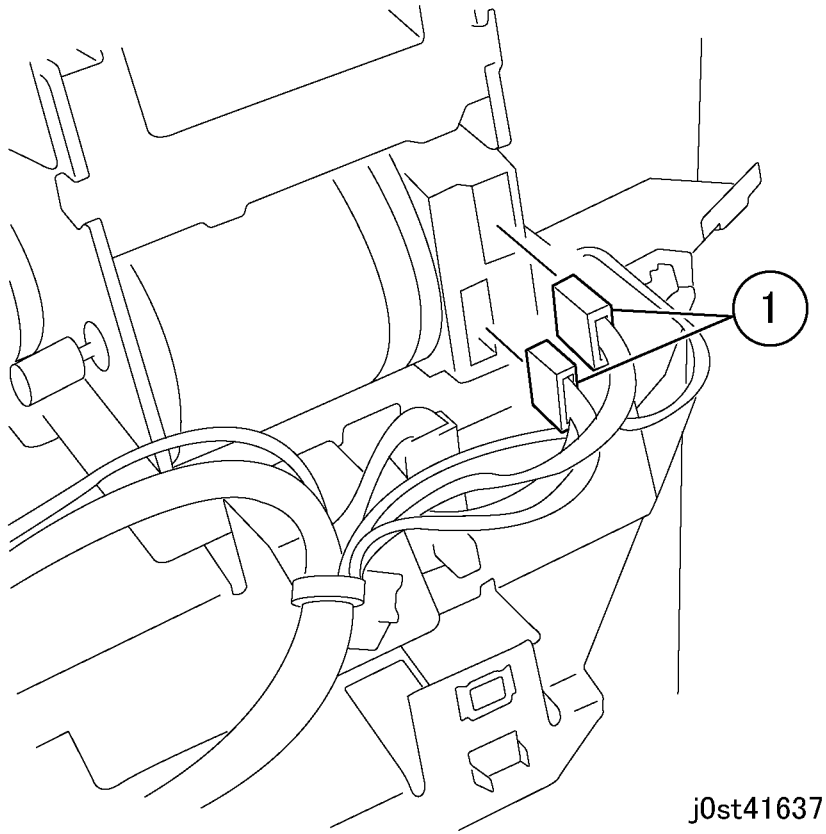


Figure 1 Disconnecting the connectors (j0st41637)

3. Remove the Staple Assembly. (Figure 2)
    1. Remove the screw.
    2. Remove the screw to remove the Earth Wire.
    3. Remove the Staple Assembly.

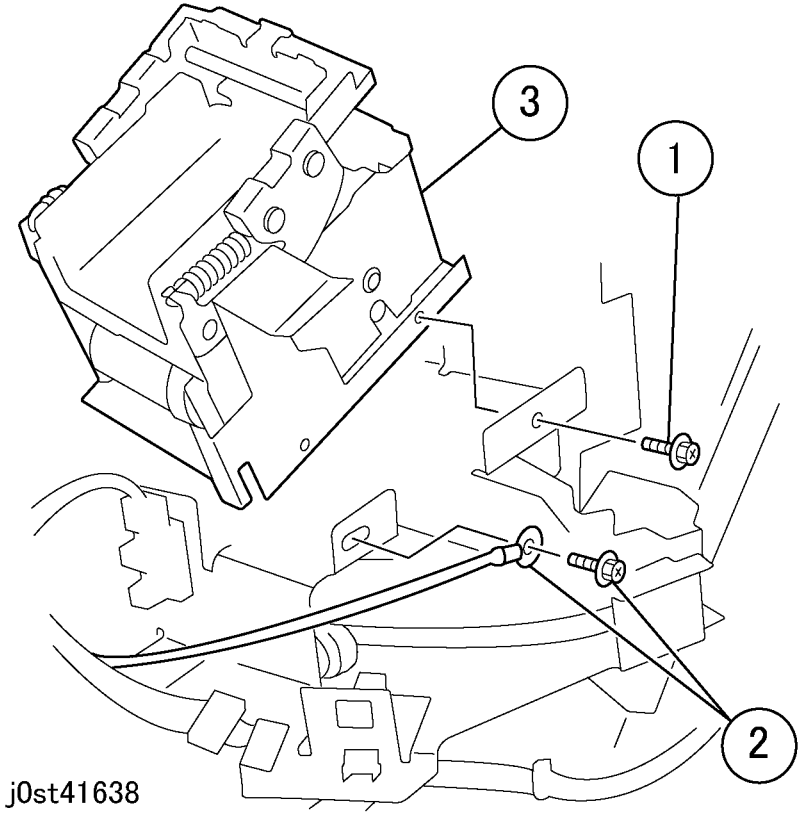


Figure 2 Removing the Staple Assembly (j0st41638)

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)*

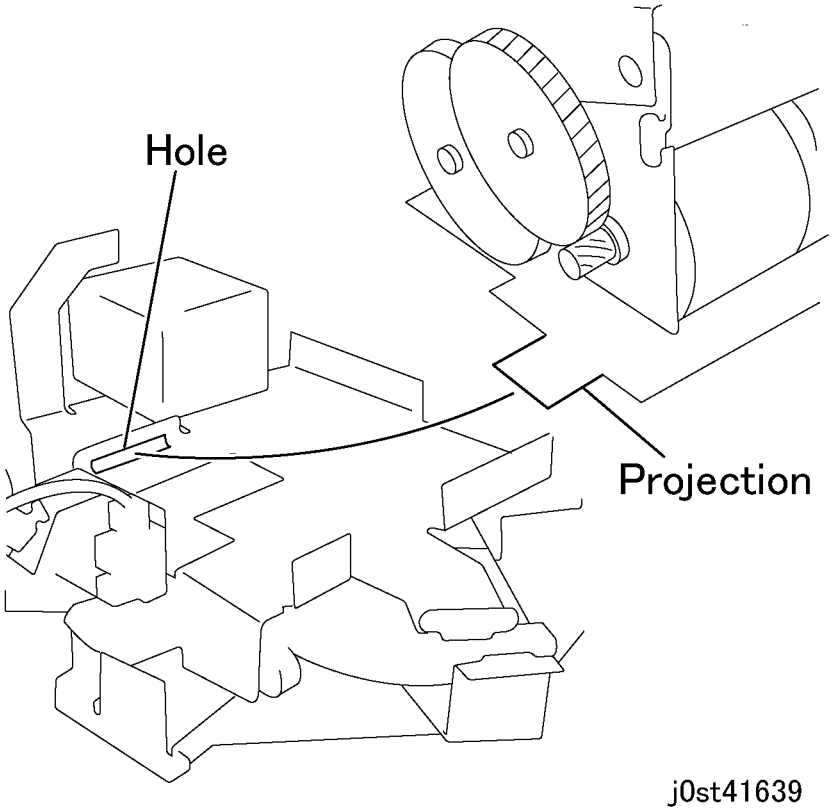


Figure 3 Installing the Staple Assembly (j0st41639)

REP 16.9.1 Compiler Tray Assembly

Parts List on PL 16.9

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

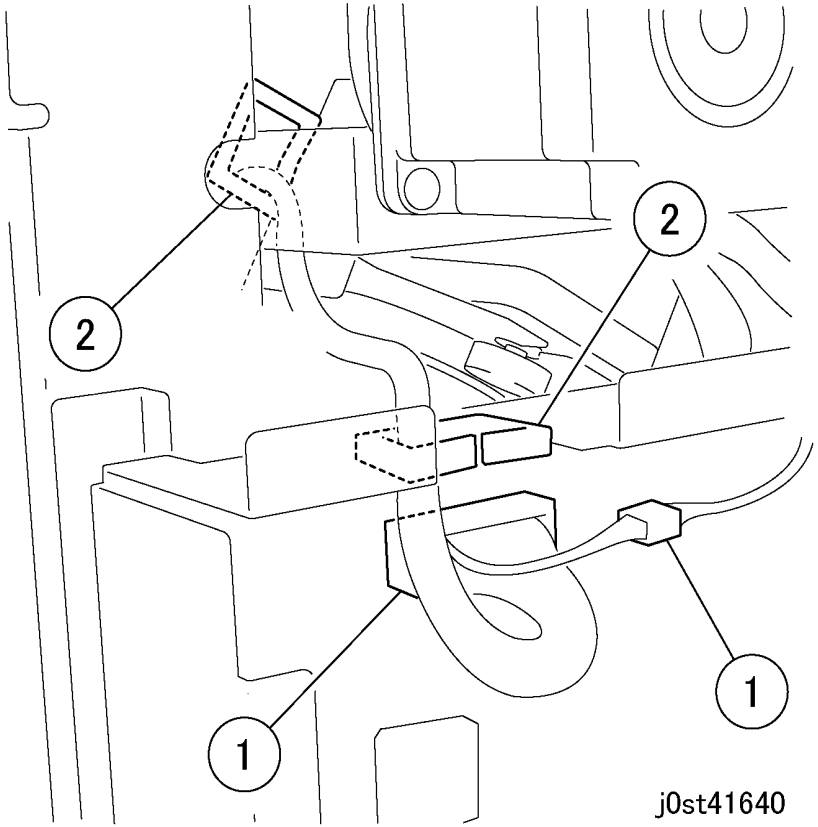


Figure 1 Disconnecting the connectors (j0st41640)

4. Remove the screws. (Figure 2)
    1. Remove the screws (x2).

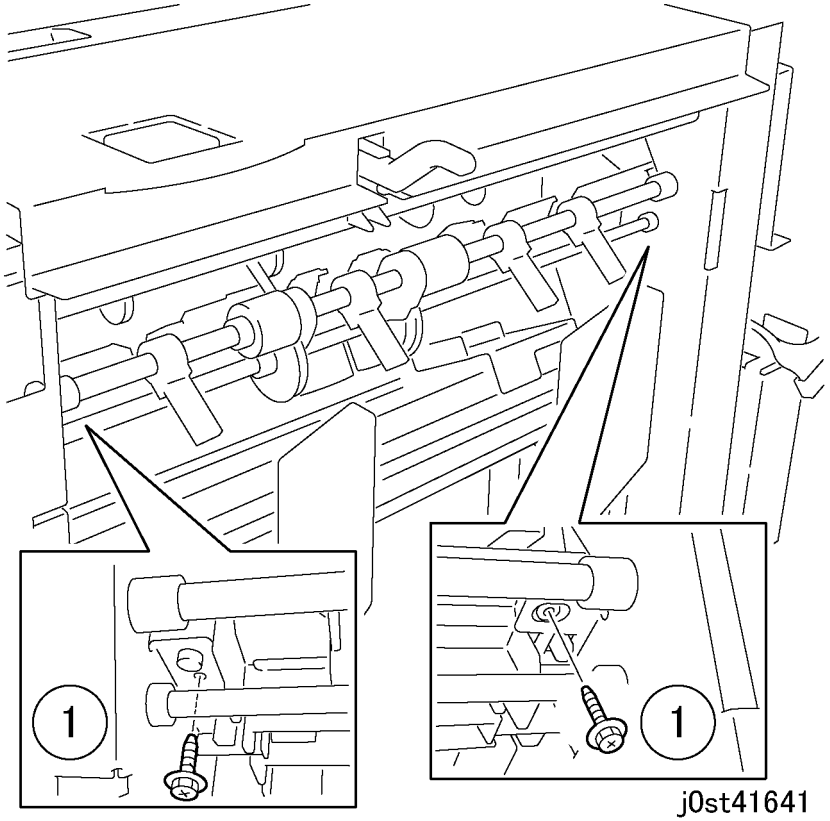


Figure 2 Removing the screws (j0st41641)

5. Remove the Compiler Assembly (item 1) (Figure 3).

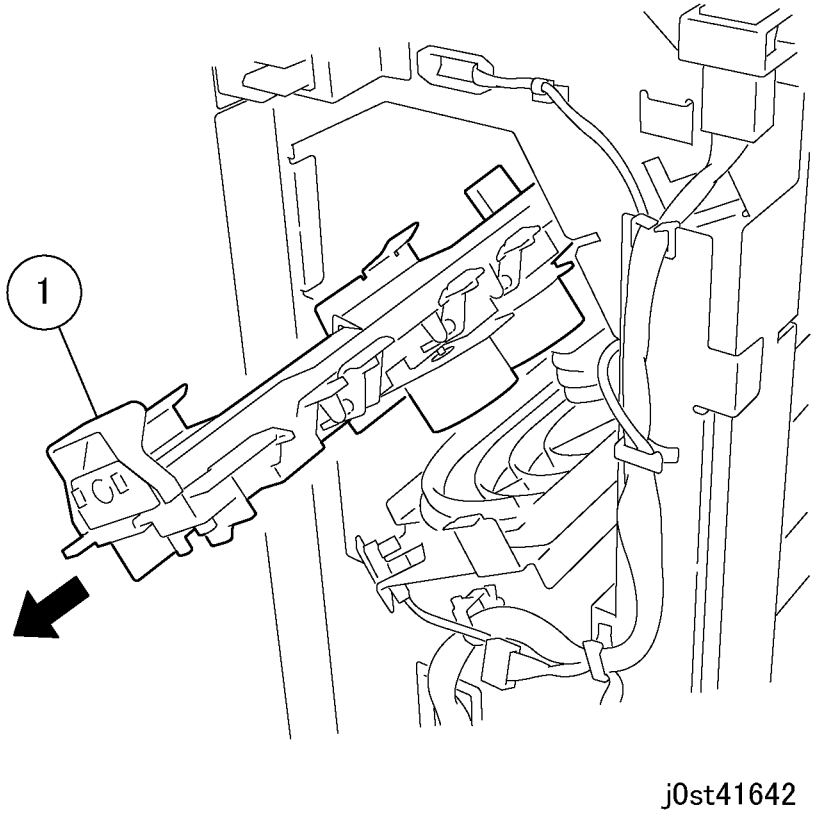


Figure 3 Removing the Compiler Assembly (j0st41642)

REP 16.10.1 Stacker Motor Assembly

Parts List on PL 16.10

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

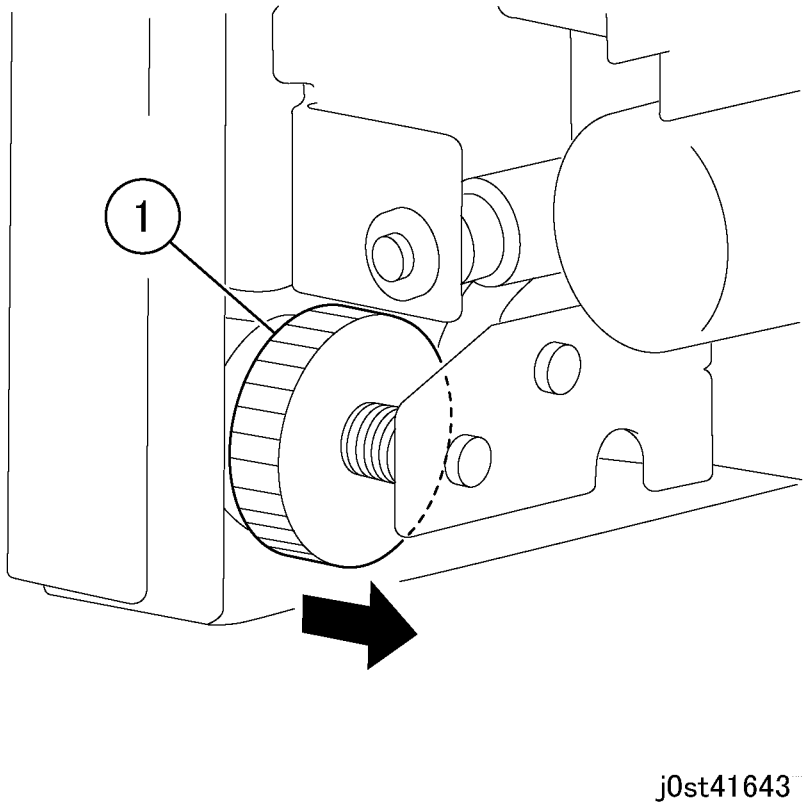


Figure 1 Moving the gear (j0st41643)

3. Remove the bracket. (Figure 2)
    1. Remove the screw.
    2. Loosen the screws (x2).
    3. Remove the bracket.

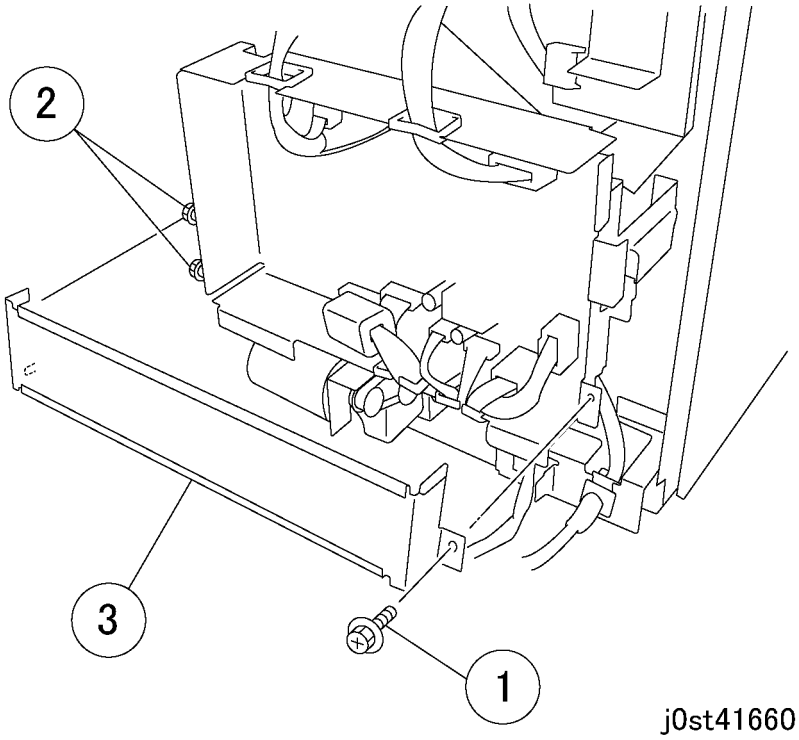


Figure 2 Removing the bracket (j0st41660)

4. Remove the screws. (Figure 3)
    1. Remove the screws (x2).
    2. Loosen the screw.

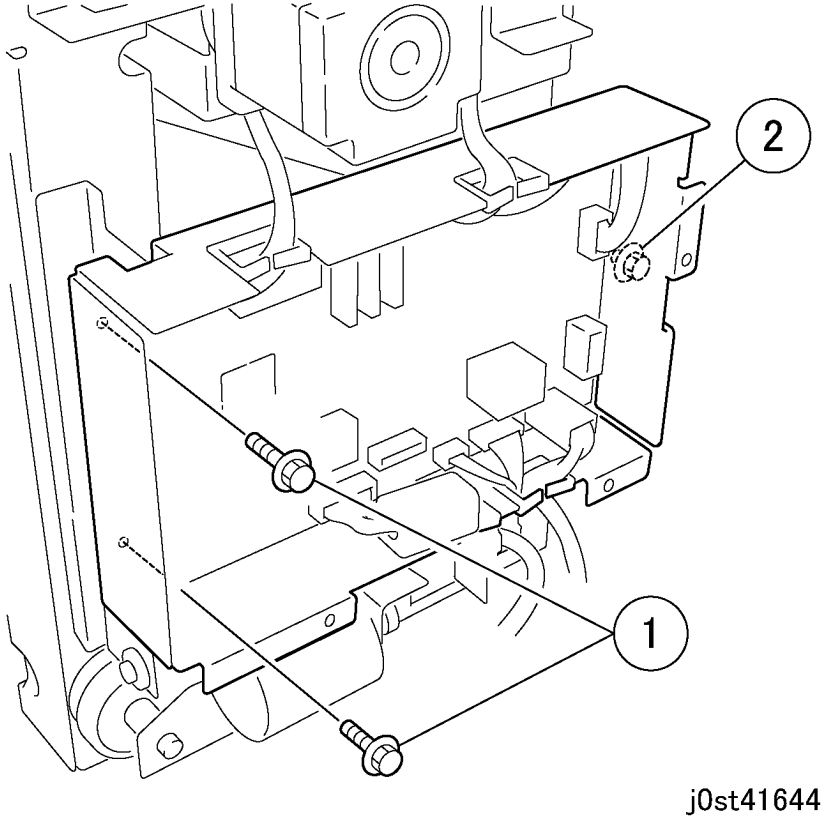


Figure 3 Removing the screws (j0st41644)

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.

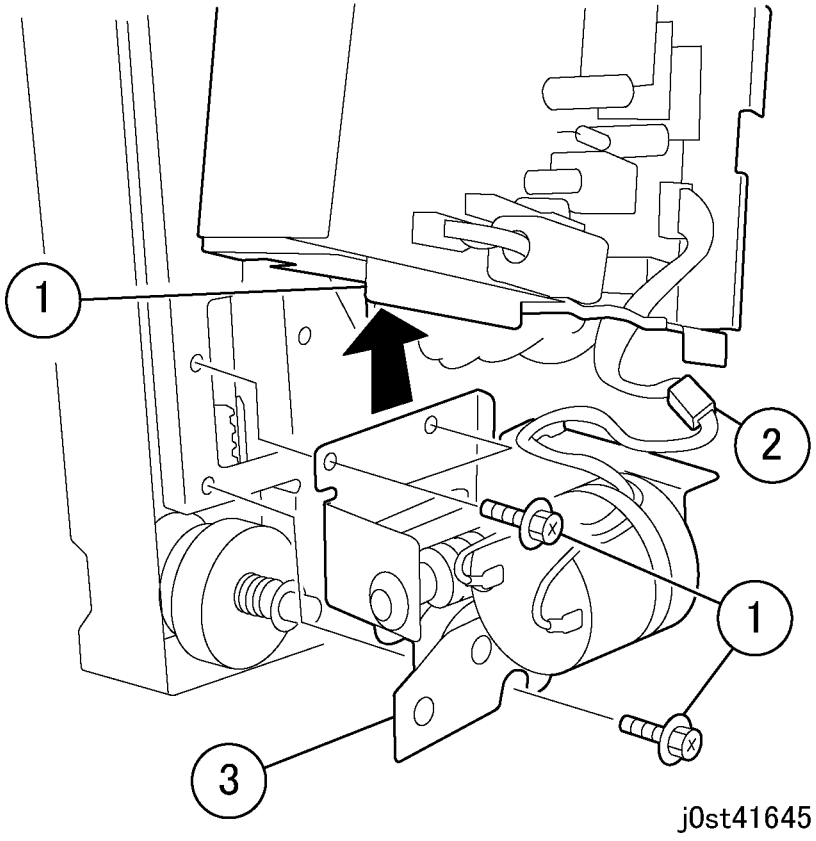


Figure 4 Removing the Staple Motor Assembly (j0st41645)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.10.2 Elevator Belt Assembly

Parts List on PL 16.10

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

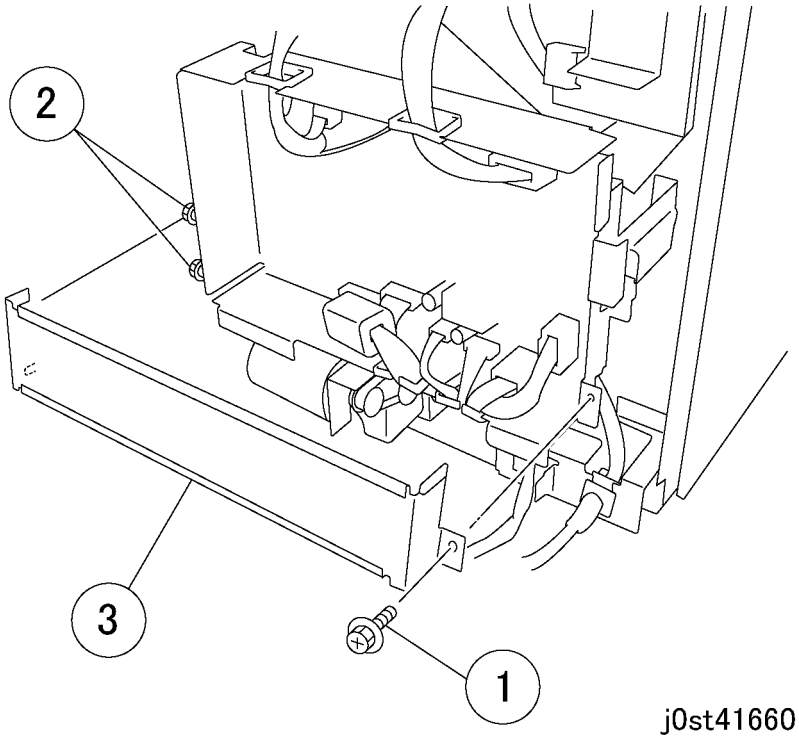


Figure 1 Removing the bracket (j0st41660)

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.

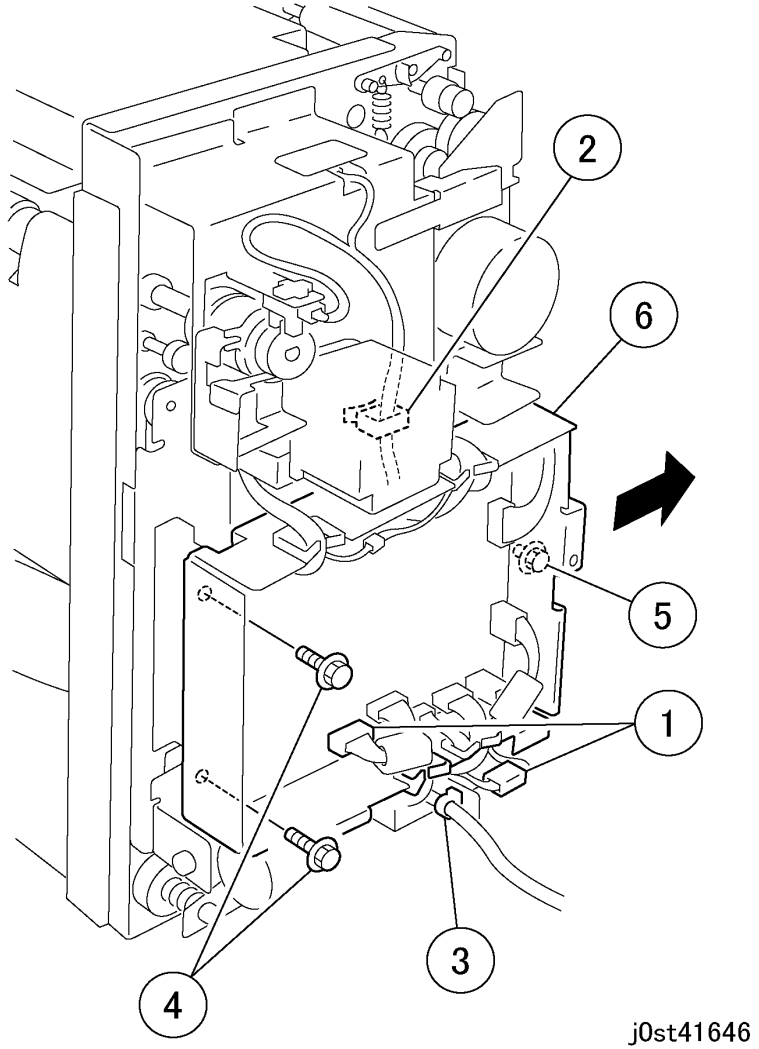


Figure 2 Moving the PWB Bracket (j0st41646)

4. Remove the Elevator Belt Assembly. (Figure 3)
    1. Remove the screws (x3).
    2. Remove the Elevator Belt Assembly.

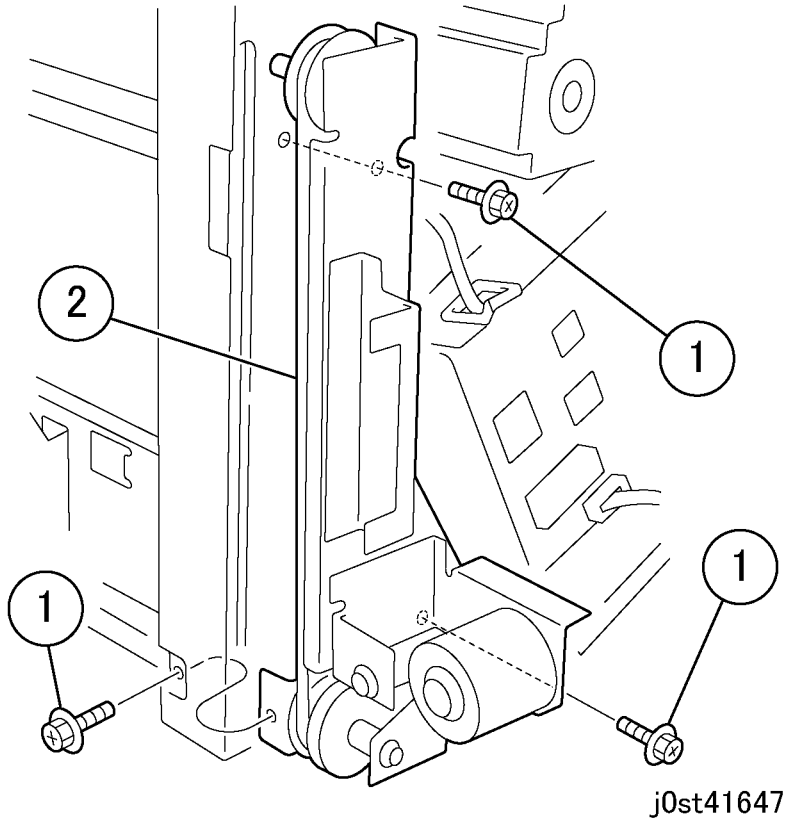


Figure 3 Removing the Elevator Belt Assembly (j0st41647)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.11.1 Paddle Gear Shaft

Parts List on PL 16.11

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

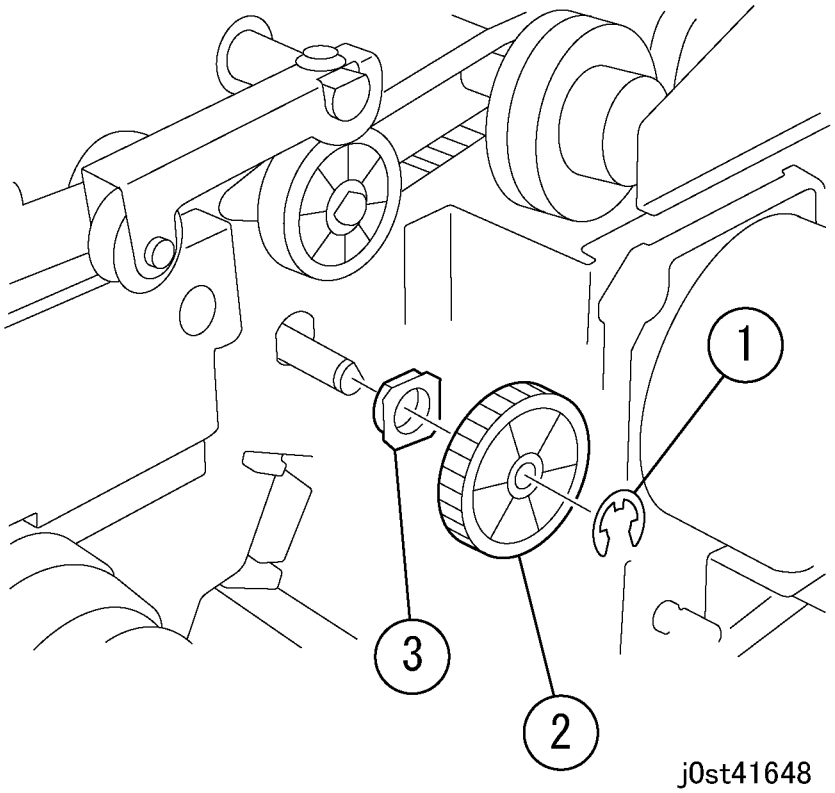


Figure 1 Removing the bearing (j0st41648)

4. Remove the screw securing the Paddle Gear Shaft. (Figure 2)
    1. Remove the screw.

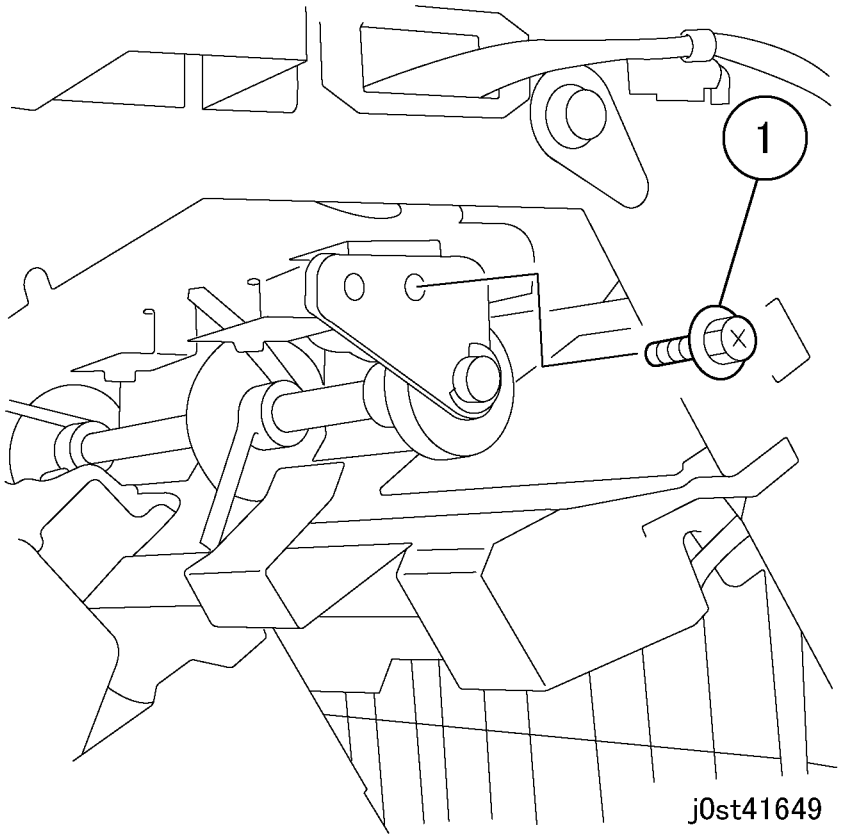


Figure 2 Removing the screw (j0st41649)

5. Remove the Paddle Gear Shaft. (Figure 3)
    1. Remove the Paddle Gear Shaft.

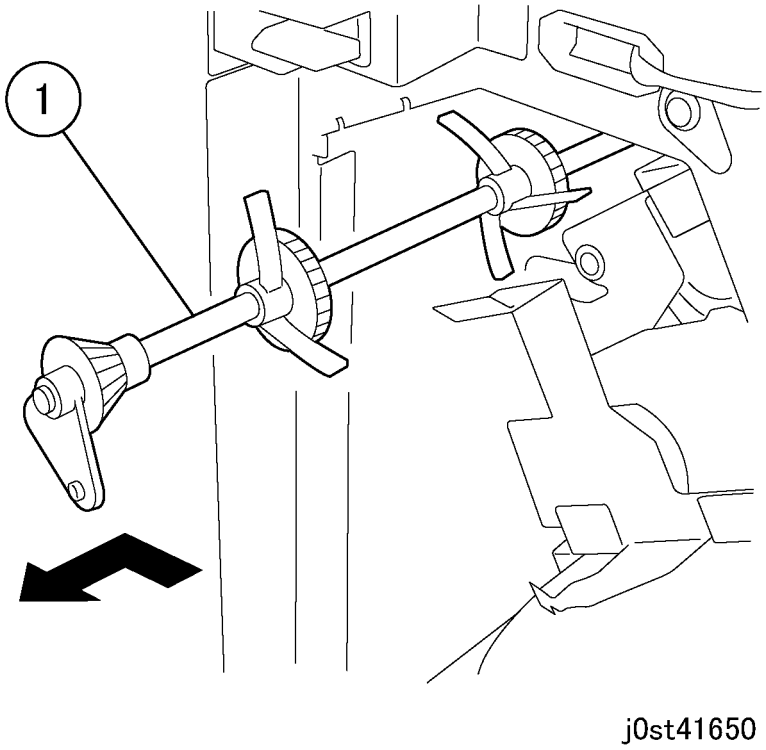


Figure 3 Removing the Paddle Gear Shaft (j0st41650)

Replacement

1. To install, carry out the removal steps in reverse order.

REP 16.12.1 Finisher PWB

Parts List on PL 16.12

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" 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.

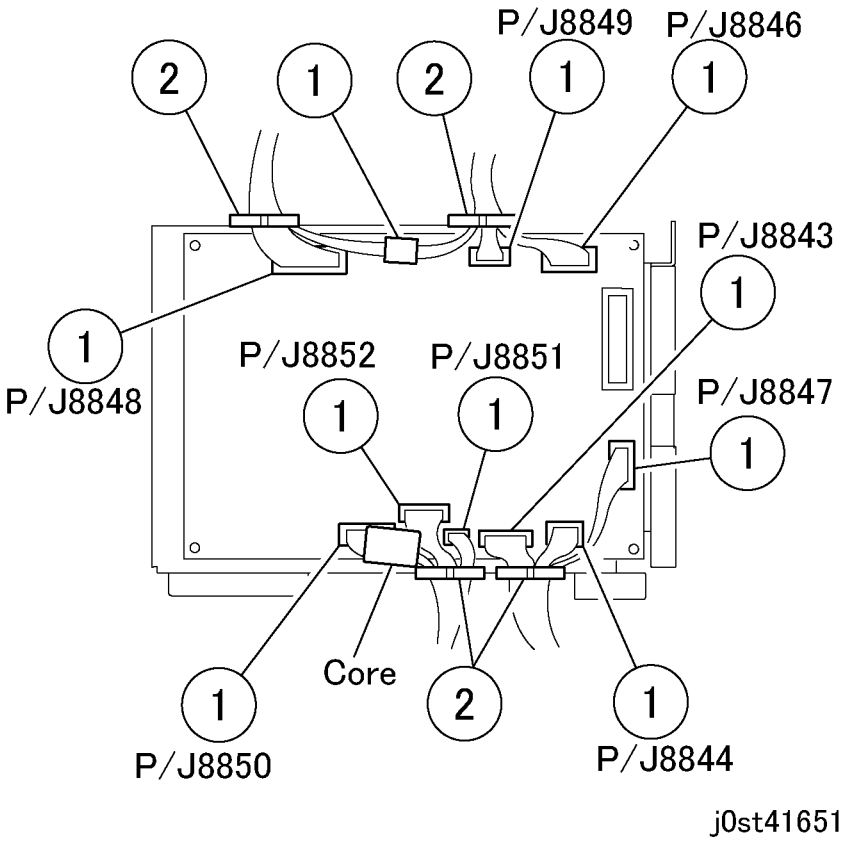


Figure 1 Disconnecting the connectors (j0st41651)

3. Remove the Finisher PWB. (Figure 2)
    1. Remove the screws (x5).
    2. Remove the Finisher PWB.

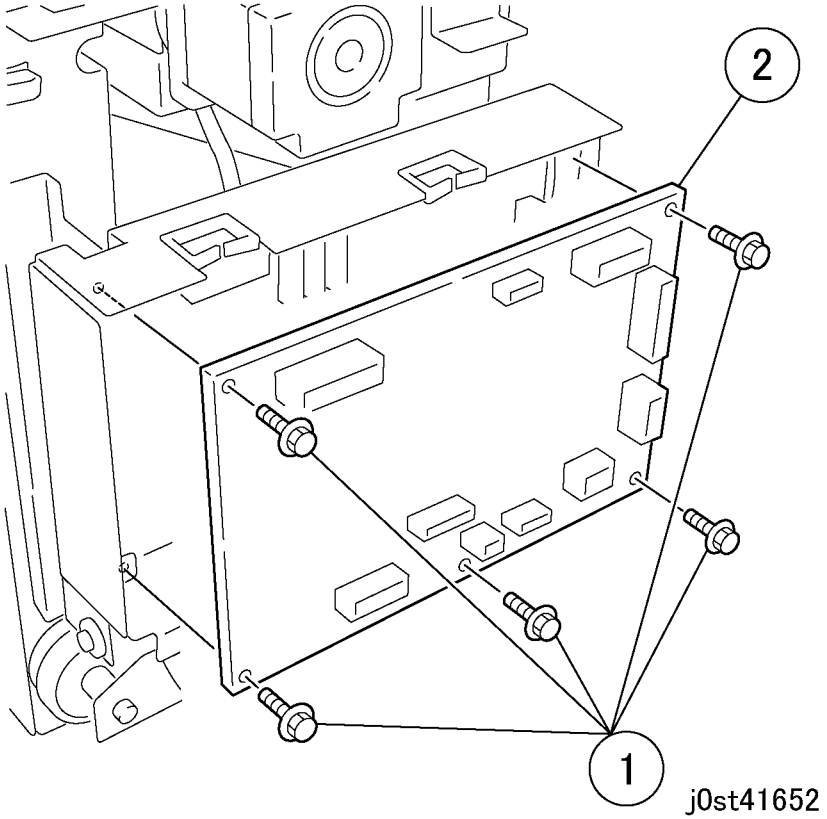


Figure 2 Removing the Finisher PWB (j0st41652)

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.*

ADJ 4.1.1 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 ATC Sensor and the reference value, and by adjusting the toner level accordingly.

Check

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 **Adjust Toner Density**.
3. Select Measure the sensor state.
4. Press **Start** button to begin ATC measurement.
5. After measurement ends, the measured value of the following items will be displayed.
   ATC Target
   ATC Output
   ATC Result (ATC Sensor Failure Assessment Result)
   TC State (Toner Condition)
6. Check the TC State.
   TC State is determined as the following:
   Normal: ATC Target-40 =< ATC Output =< ATC Target+40
   High: ATC Output < ATC Target-40
   Low: ATC Output > ATC Target+40

Adjustment

1. Carry out the following procedure accordingly.
   Normal: Press the [Close] button to end the operation.
   High or Low: 2. Carry out the following procedure.
2. Select **Adjust Toner Density**. Adjust the toner level using the [Up] and [Down] buttons displayed.
3. If TC State is High, press the [Up] button to increase toner density. If the TC State is Low, press the [Down] button to decrease toner density. As Tone Up/Tone Down is processed during output, set the no. of output sheets using the [Up] and [Down] buttons.
4. Toner density adjustment during output starts when the [Start] button is pressed.
5. After toner density adjustment, press [Start] button to start ATC measurement again.
6. Repeat steps 2 to 5 until TC State is Normal.

ADJ 7.1.1 Tray 5 (Bypass) Guide Adjustment (MPT Guide Adjustment)

Purpose

To set the maximum and minimum positions of the MPT Side Guide for MPT 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 MPT Side Guide at the minimum position.
5. Select the minimum size position and press the Start button.
6. After the NVM sets the MPT Paper Size Sensor detection value, an OK or NG result will be displayed.
7. Set the MPT Side Guide at the maximum position.
8. Select the maximum size position and press the Start button.
9. After the NVM sets the MPT Paper Size Sensor detection value, an OK or NG result will be displayed.

ADJ 9.1.1 IOT Lead Edge/Side Edge Registration

Purpose

To align the image on the drum with the Lead/Side Edge of the paper.

Check

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 **Print Test Pattern**.
3. Load A3 or 11x17 into tray 1 or 2.

   NOTE: *If A3 or 11x17 is not available, set the paper guides in the tray to A3 or 11x17. Load A4 or 8.5x11 with the paper against the tray (feeder end). An error will occur but the test print will output.*

4. Enter 052-1 for tray 1 or 052-2 for tray 2 using the number key pad and press the **Start** button.

   NOTE: *Print Test Pattern routine will auto-select the tray set with A3 or 11x17 paper irregardless of which tray is selected.*

5. Measure the Lead and Side Edges of the print pattern. (Figure 1)
   Lead Edge: Part A of the pattern
   Side Edge: Part B of the pattern

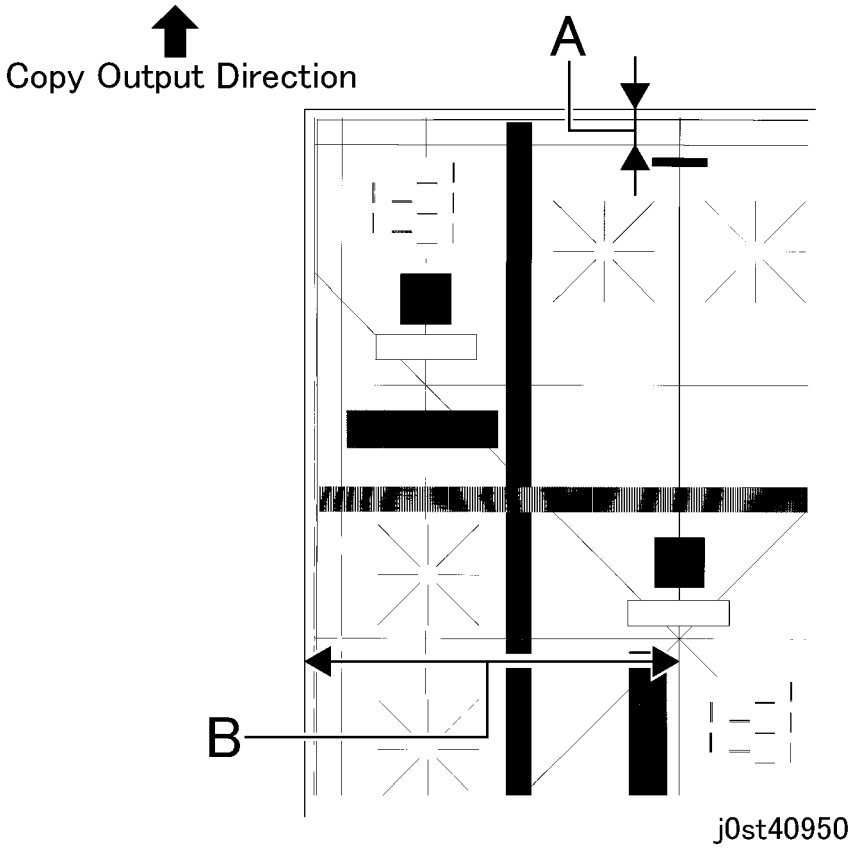


Figure 1 IOT Registration (j0st40950)

6. Check that the measured values of the Lead Edge (A) and Side Edge (B) fall within the specifications of the specified mode (A3 Table 1) (11x17 Table 2).

Table 1 A3 Specification

Item	Simplex	Duplex	MPT
Lead Edge (A)	15 ± 1.3mm	15 ± 1.7mm	15 ± 2.0mm
Side Edge (B)	148.5 ± 1.8mm	148.5 ± 2.2mm	148.5 ± 2.5mm

Table 2 11x17 Specification

Item	Simplex	Duplex	MPT
Lead Edge (A)	21 ± 1.3mm	21 ± 1.7mm	21 ± 2.0mm
Side Edge (B)	140 ± 1.8mm	140 ± 2.2mm	140 ± 2.5mm

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 **NVM Read/Write**.
3. Adjust the measured values of the Lead (A) and Side Edges (B) using the following NVM so that the measured values fall within the specifications of the respective supporting modes.

   If the measured value is shorter than specification above (A or B): Set a larger value.

   If the measured value is longer than specification above (A or B): Set a smaller value.

   - Adjustment of A (Lead Edge), refer to Table 3 below.
   - Adjustment of B (Side Edge), refer to Table 4 below.

Table 3 NVM List of Lead Edge

Chain Link	Name	Min.	Initial	Max	Increment
742-027	LEAD REGI ADJUSTMENT - ALL TRAY	0	33	66	0.2175mm
760-001	TRAY1 for Normal Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-002	TRAY2-4 for Normal Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-003	MPT for Normal Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-005	DUP ALL SIZE for Normal Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-013	DUP A3 Group - LEAD REGI ADJUSTMENT	0	10	16	0.2175mm
760-014	DUP A4S Group - LEAD REGI ADJUSTMENT	0	10	16	0.2175mm
760-015	DUP A4L Group - LEAD REGI ADJUSTMENT	0	10	16	0.2175mm
760-016	TRAY1 for Thick-1 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-017	TRAY1 for Thick-2 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-018	TRAY2-4 for Thick-1 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-019	TRAY2-4 for Thick-2 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm

Table 3 NVM List of Lead Edge

Chain Link	Name	Min.	Initial	Max	Increment
760-020	MPT for Thick-1 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-021	MPT for Thick-2 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-022	DUP ALL SIZE for Thick-1 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-023	DUP ALL SIZE for Thick-2 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-031	TRAY1 for Thick-4 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-032	TRAY2-4 for Thick-4 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-033	MPT for Thick-4 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm
760-034	DUP ALL SIZE for Thick-4 Paper - LEAD REGI ADJUSTMENT	0	33	66	0.2175mm

Table 4 NVM List of Side Edge

Chain Link	Name	Min.	Initial	Max	Increment
749-001	ALL TRAY-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-002	TRAY1-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-003	TRAY2-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-004	TRAY3-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-005	TRAY4-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-007	MPT-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-009	DUP ALL TRAY-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-010	DUP TRAY1-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-011	DUP TRAY2-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-012	DUP TRAY3-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-013	DUP TRAY4-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm
749-015	DUP MPT-LASER SIDE REGI ADJUSTMENT	1	50	99	0.254mm

4. After adjustment, print the test pattern in the same mode and measure the Lead and Side Edge values. Repeat this procedure until the values fall within the specifications.

5. Repeat the procedure until the measured values of the Lead (A) and Side Edges (B) fall within the specifications.

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. 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. Set Chain-Link No. 749-516 (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. 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. 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
749-523	SIDE NORMAL ERASE ADJUSTMENT	0	8	16	0.254mm
749-524	TOP NORMAL ERASE ADJUSTMENT	0	9	18	0.217mm
749-527	END NORMAL ERASE ADJUSTMENT	0	9	18	0.217mm

4. After adjustment, make another black copy without using any originals and leaving the Platen Cover open.
5. Repeat the procedure until the measuered values of the Lead (A), and Side (B) Edges fall within the specifications.

ADJ 9.3.1 Firmware Version Downloading

Purpose

The purpose is to load software in the ESS PWB, FCB PWB, IIT/IPS PWB, DADF PWB ROM.

NOTE: *Software can be loaded using three methods.*

- *USB port*
- *Network port*
- *Parallel port*

M123 USB Port

1. Print out a System Settings List (GP 5 Printing Reports) to compare options at the completion of the download.
2. Power off the Machine and the PWS.
3. Remove the ESS cover and plug the USB cable into the USB port on the ESS PWB and to your PWS.
4. Power on the Machine into the Download Mode. (Hold the Power Saver Button down while powering on the Machine)
5. Power on the PWS.
6. A “Device Found” window will pop-up on your PWS. Select **Cancel** on this pop-up.
7. Open the PWS Firmware Update Tool. (FWDLMgr.exe)
8. Click on Agree in the License Screen.
9. On the Firmware Update Tool screen select the following:

   Printer Model: CopyCentre/ WorkCentre M123,128 or 133 as appropriate.

   File name: Click on Browse. (On the next screen you need to find the .bin file to Download. The file should read either: SHXC_STDXXXXX.bin for WorkCentre machines or SHXC_PSXXXXX.bin for WorkCentre Pro machines that have the PostScript option. The X's in the file indicate the version. Highlight the file that you want and click on Open.)

   Click on Add once you have found the File name.

   Click on Version to check the version of the software you are about to download.
10. Click on Next.
11. In the Firmware Update Tool select **USB port**.
12. Click Next.
13. The Download will start and takes approximately 20 minutes.
14. The PWS will Transfer the file to the machine in about 3 minutes. Do not unplug the USB cable until the download is complete.

    On the PWS you will see - IIT Finish, ADF Finish, Finisher Finish etc. as the machine unpacks each piece of the firmware.

    On the machine you will see “TRANSFERRING” as the file is transferred, then “PROCESSING”, 0-5 progressing to 4-5 as the file is unpacked.
15. The Machine will reboot and come up to the Ready to Copy Mode when finished.
16. On the PWS select **Finish** and Click Yes, exit the program.
17. The Software Download is now complete.
18. Compare a new System Settings List (GP 5 Printing Reports) to the one printed at the start of the instructions and enable any Options needed.

M123 PARALLEL Port

NOTE: *If PWS has Windows 98 operating system then refer to Firmware Upload Utility CD for detailed instructions on how to enable the USB port on the PWS.*

1. Print out a System Settings List (GP 5 Printing Reports) to compare options at the completion of the download.
2. Power off the Machine and the PWS.
3. Plug in the parallel cable to both the Machine and the PWS.
4. Power on the Machine into the Download Mode.(Hold the Power Saver Button down while powering on the Machine)
5. Power on the PWS.
6. Open the PWS Firmware Update Tool. (FWDLMgr.exe)
7. Click on Agree in the License Screen.
8. On the Firmware Update Tool screen select the following:

   Printer Model: CopyCentre/ WorkCentre M123,128 or 133 as appropriate.

   File name: Click on Browse. (On the next screen you need to find the .bin file to Download. The file should read similar to the following: SHXC_STDXXXXX.bin or SHXC_PSXXXXX.bin. The file with the STD is for CopyCentre and WorkCentre machines. The file with PS is for WorkCentre Pro machines that have the PostScript option. TheX's in the file indicate the version. Highlight the file that you want and click on Open.)

   Click on Add once you have found the File name.
9. Click on Next.
10. In the Firmware Update Tool select **Parallel Port(P**)
11. Click Next.
12. The Download will start and takes approximately 20 minutes.
13. The Machine will reboot and come up to the Ready to Copy Mode when finished.
14. On the PWS select **Finish** and Click Yes exit the program.
15. The Software Download is now complete.
16. Compare a new System Settings List (GP 5 Printing Reports) to the one printed at the start of the instructions and enable any Options needed.

M123 NETWORK Port

1. Print out a System Settings List (GP 5 Printing Reports) to compare options at the completion of the download and to locate the machine IP address.
2. Set the IP address on your PWS to be 1 different from the machine and the subnet mask to be the same as the machine.
3. Power off the Machine and the PWS.
4. Plug in the Crossover cable to both the Machine and the PWS.
5. Power on the Machine. Do NOT put the machine into Download Mode. The machine must be in the ready state.
6. Power on the PWS.
7. Open the PWS Firmware Update Tool. (FWDLMgr.exe)
8. Click on Agree in the License Screen.
9. On the Firmware Update Tool screen select the following:

   Printer Model: CopyCentre/ WorkCentre M123,128 or 133 as appropriate.

File name: Click on Browse. (On the next screen you need to find the .bin file to Download. The file should read similar to the following: SHXC_STDXXXXX.bin or SHXC_PSXXXXX.bin. The file with the STD is for CopyCentre and WorkCentre machines. The file with PS is for WorkCentre Pro machines that have the PostScript option. TheX's in the file indicate the version. Highlight the file that you want and click on Open.)

Click on Add once you have found the File name.

10. Click on Next.
11. In the Firmware Update Tool select **Network (Port 9100)**.
12. Click Next.
13. Select **Search**, wait until the machine is found.
14. Check that the correct machine IP address is displayed, and select it.
15. Check the Version. This will display the version of the software you are about to download.
16. Select **Next**.
17. The Download will start and takes approximately 20 minutes. The machine will automatically go into Download Mode. Progress and download status is shown on the PWS.
18. The Machine will reboot and come up to the Ready to Copy Mode when finished.
19. On the PWS select **Finish** and Click Yes to exit the program.
20. The Software Download is now complete.
21. Compare a new System Settings List (GP 5 Printing Reports) to the one printed at the start of the instructions and enable any Options needed.

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.*

Check

1. Register Side A of Test Chart 82P521 (A3) or 82P524 (Legal) on the Platen. Make 5 100% copies of the Test Chart on A3SEF or Legal SEF paper.
2. Measure the Lead Edge and Side Edge of the third copy (Figure 1).
   Lead Edge: Part A of the pattern
   Side Edge: Part B of the pattern

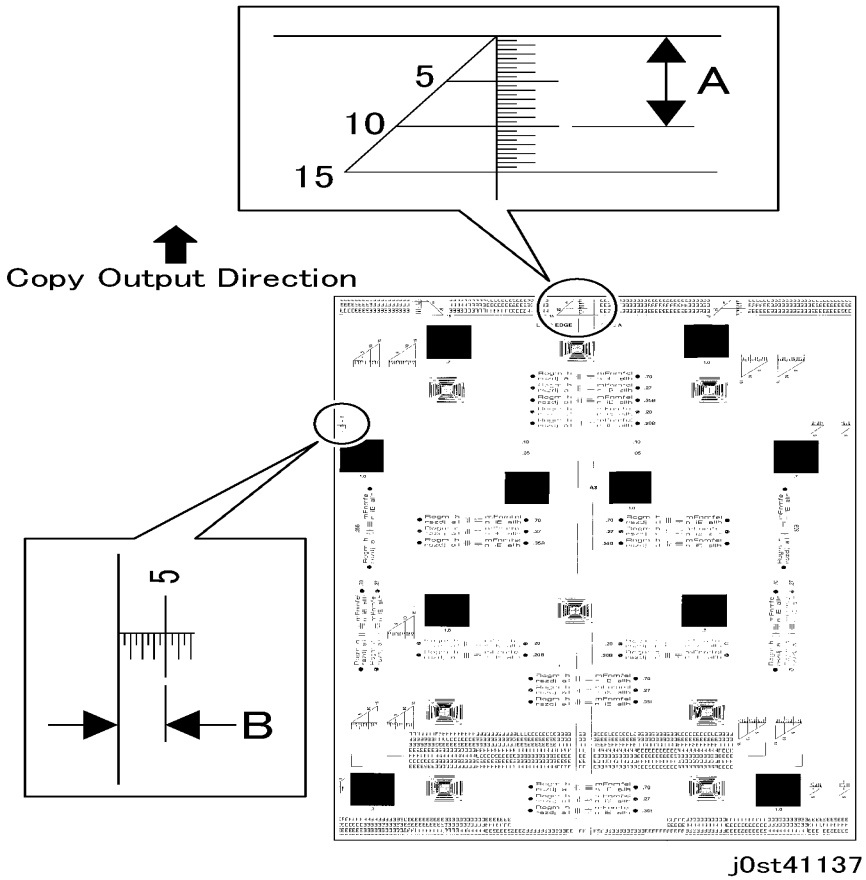


Figure 1 IIT Registration (j0st41137)

3. Check that the measured values of the Lead Edge (A) and Side Edge (B) fall within the specifications of the supporting mode.

Table 1 Specification

Item	Simplex	Duplex	MPT
Lead Edge (A)	10 ± 1.6mm	10 ± 2.0mm	10 ± 2.2mm
Side Edge (B)	5 ± 2.1mm	5 ± 2.5mm	5 ± 3.0mm

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 **NVM Read/Write**.
3. Adjust the measured values of the Lead Edge (A) and Side Edge (B) using the following NVM so that the measured values fall within the specifications.

   Side Edge

   If the measured value is short: Set a smaller value.

   If the measured value is long: Set a larger value.

   Lead Edge

   If the measured value is short: Set a larger value.

   If the measured value is long: Set a smaller value.

   NOTE: *After performing the IIT side Edge Registration Adjustment, perform the DADF side Edge Registration Adjustment. (ADJ 15.1.1)*

Table 2 NVM List

Chain	Link	Name	Min.	Initial	Max	Increment
715	050	Platen SS Registration Adjustment	16	100	184	0.036mm
715	053	Platen FS Registration Adjustment	0	120	240	0.085mm

4. After adjustment, place Side A of Test Chart 82P521 (A3) or 82P524 (Legal) on the Platen so that there is no gap between the chart and the Registration Guide at the rear of the Platen. Make another 100% copy on A3SEF or Legal SEF paper.
5. Repeat the procedure until the measured values of the Lead Edge (A) and Side Edge (B) fall within the specifications.

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

1. 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)

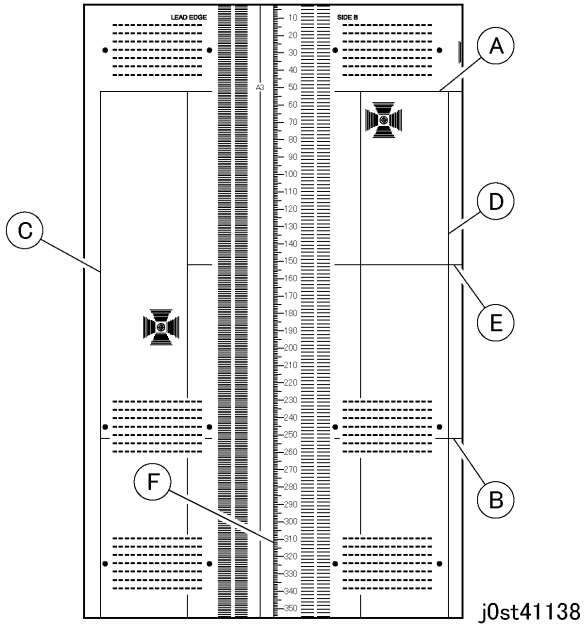


Figure 1 Enlargement areas to be measured (j0st41138)

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 **NVM Read/Write**.
3. 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

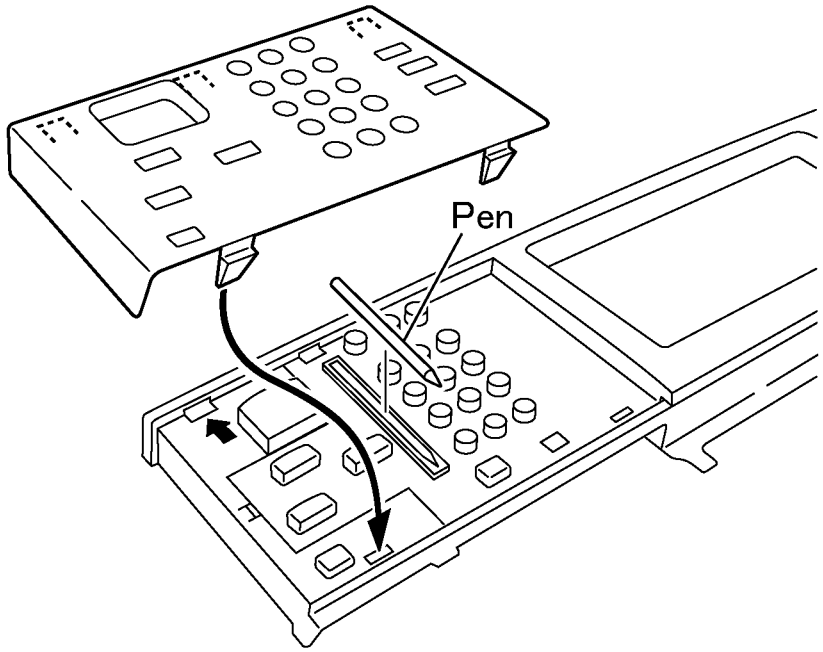
Purpose

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)



j0st41140

Figure 1 Location of the Touch Pen for UI Alignment (j0st41140)

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)

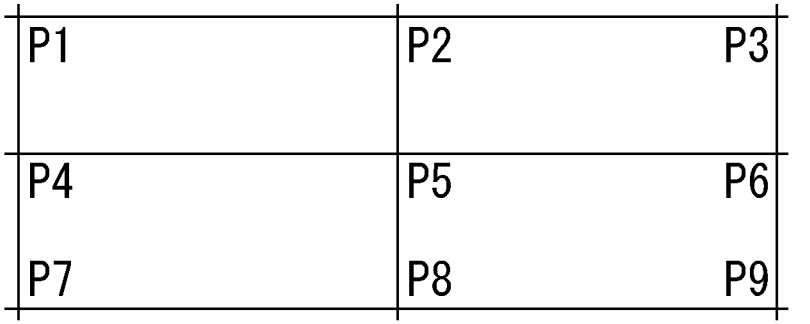


Figure 2 UI Alignment Adjustment Screen (j0st41141)

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

To prevent data loss when the power is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

***NOTE:** Adjust the position of the Front and Rear Full/Half Rate Carriage separately.*

1. Remove the DADF Assembly. (REP 15.1.1)
2. (Platen models) Remove the Platen Cover. (Figure 1)
   1. Remove the Platen Cover.

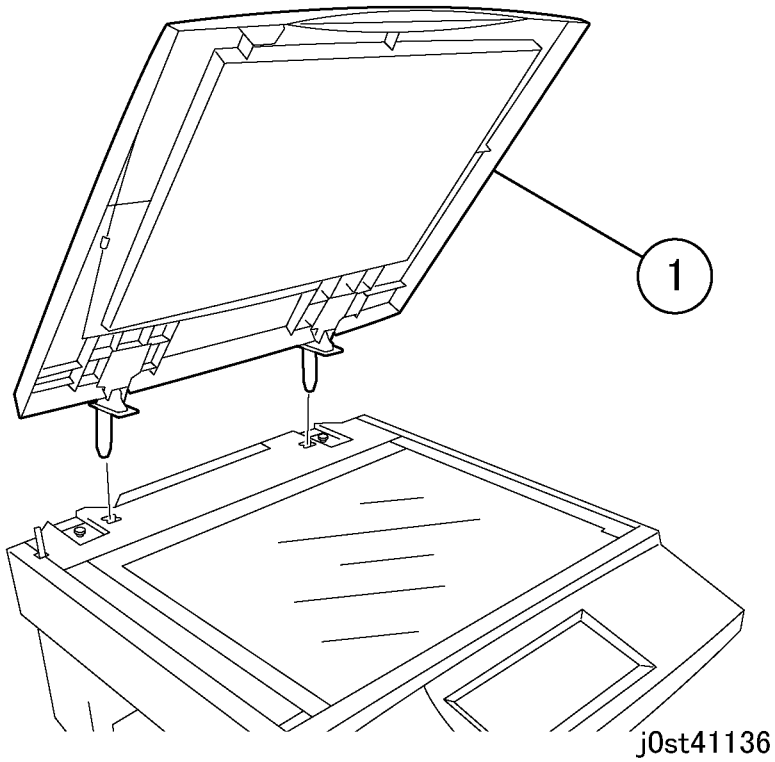


Figure 1 Removing the Platen Cover (j0st41136)

3. Remove the Platen Glass. (REP 11.3.1)

4. Prepare the tools (x2) for determining the position. (Figure 2)
    1. Remove the screws (x2).
    2. Take out the tools (x2).

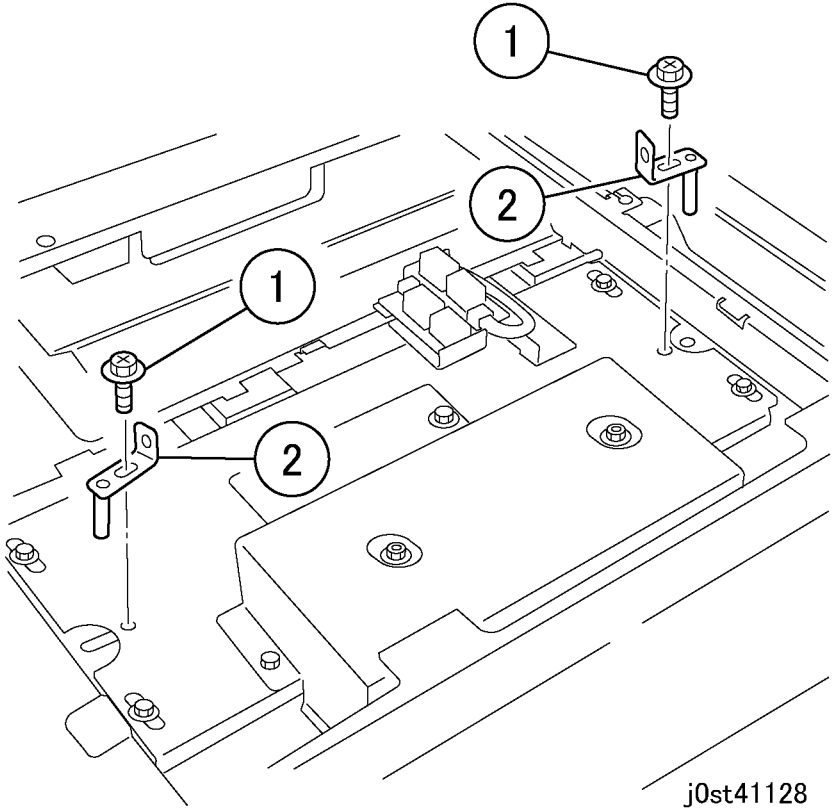


Figure 2 Taking out the tools (j0st41128)

5. Align the tool hole in the Half Rate Carriage with the tool hole of the rail (Front/Rear). (Figure 3)

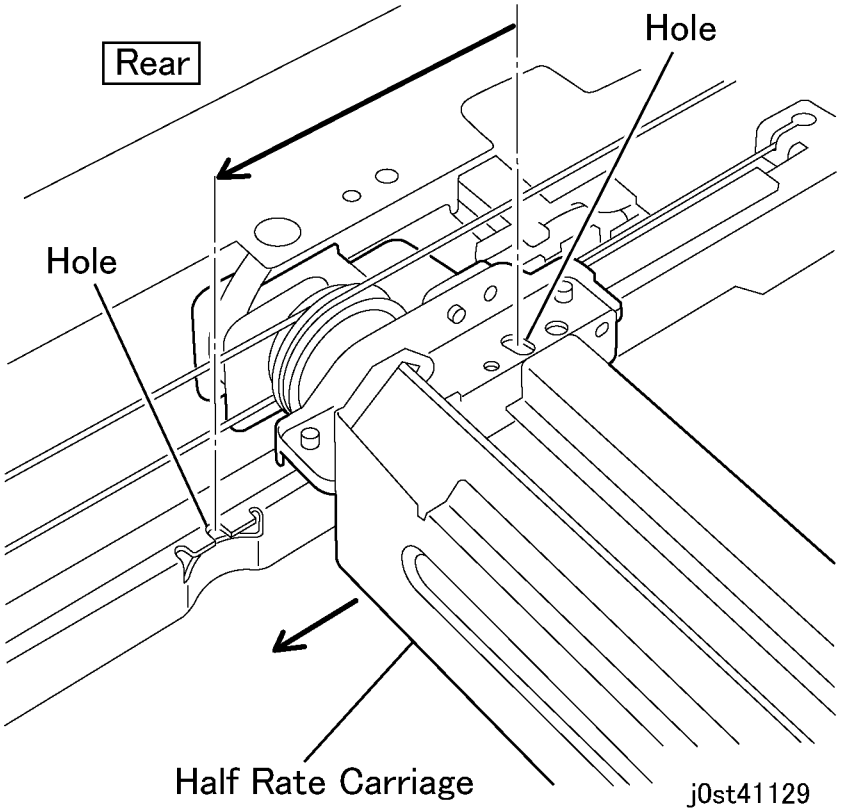


Figure 3 Position Adjustment of Half Rate Carriage 1/3 (j0st41129)

6. Fix the tool to the Half Rate Carriage. (Figure 4)

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.

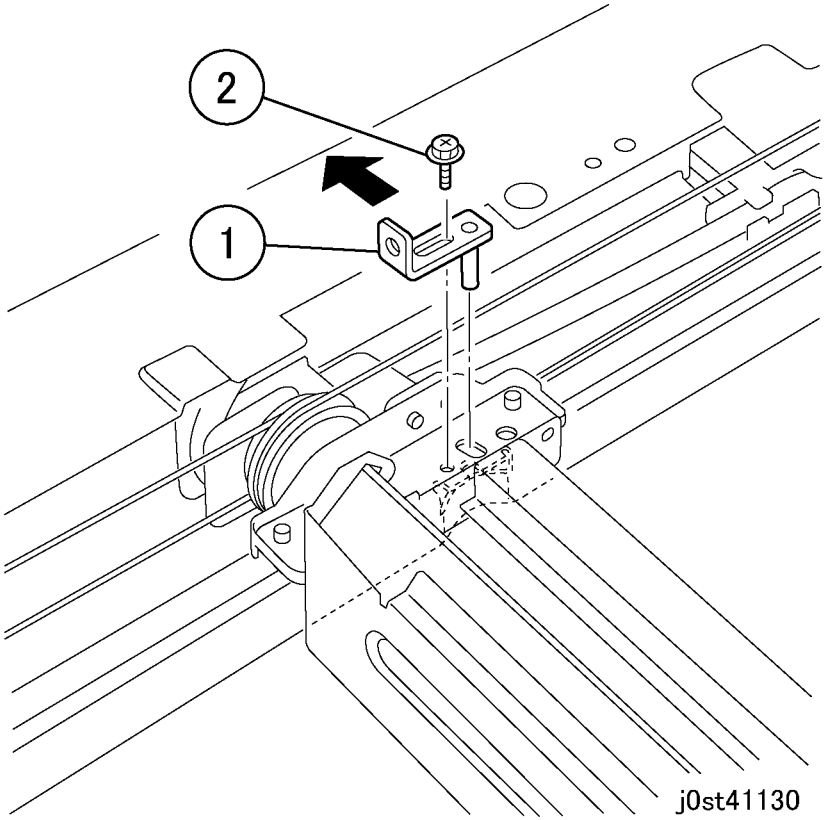


Figure 4 Position Adjustment of Half Rate Carriage 2/3 (j0st41130)

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 5)*

1. Loosen the screws (x2).
2. Turn the Pulley until the tool hole aligns.
3. Align the shaft concave with the Pulley end face and tighten the screws (x2).

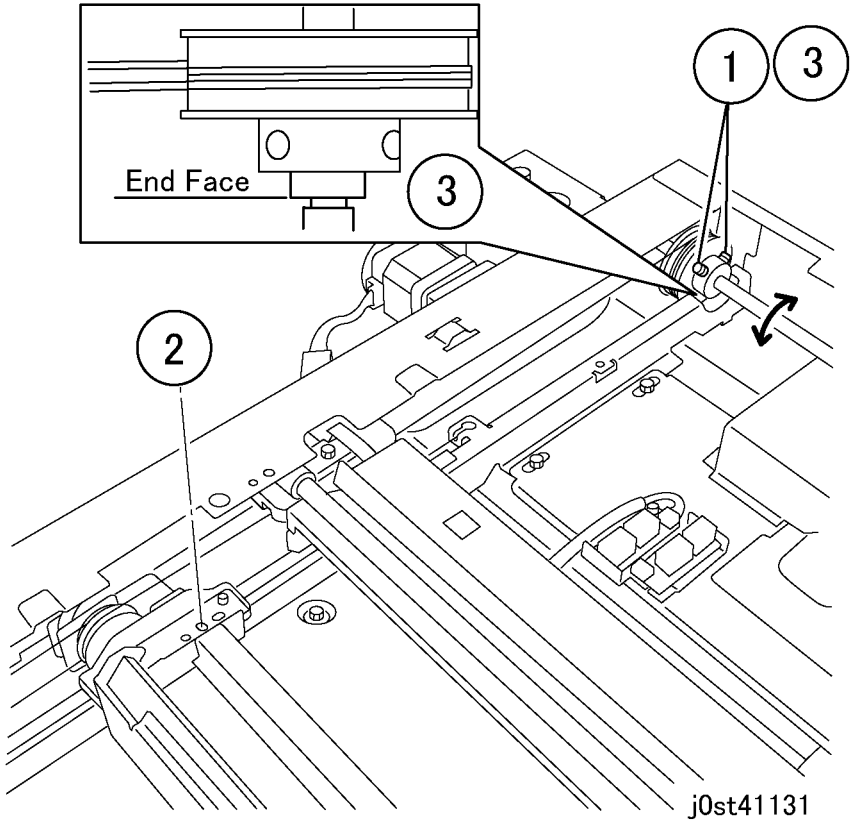


Figure 5 Position Adjustment of Half Rate Carriage 3/3 (j0st41131)

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 6)

   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.

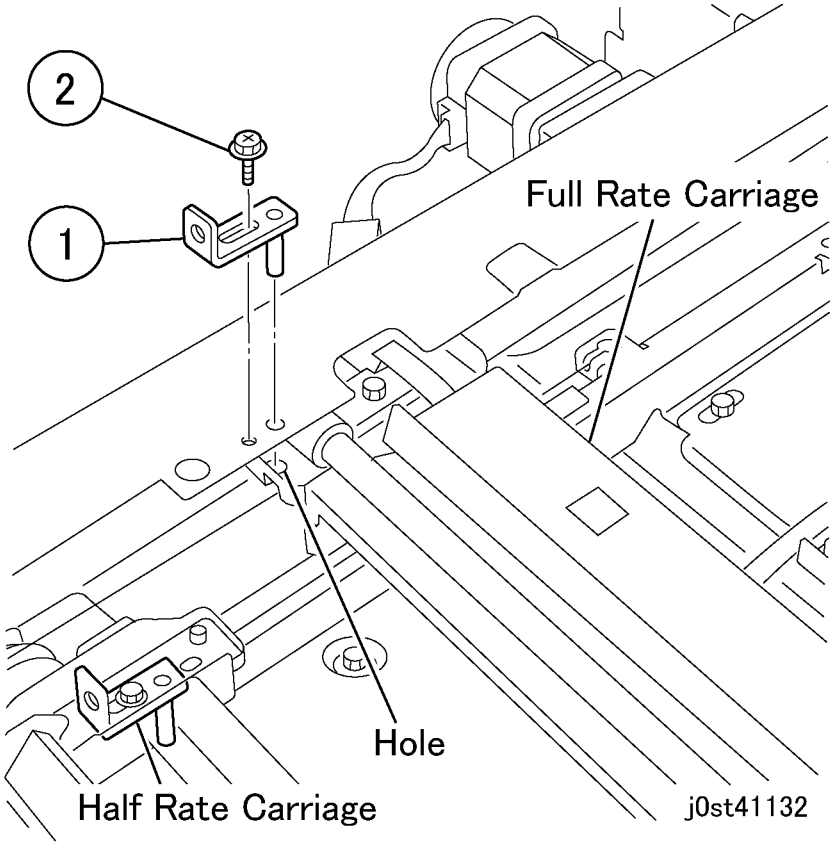


Figure 6 Position Adjustment of Full Rate Carriage 1/2 (j0st41132)

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 7)*

1. Loosen the screw.
2. Move the Full Rate Carriage until the tool hole aligns.
3. Tighten the screw.

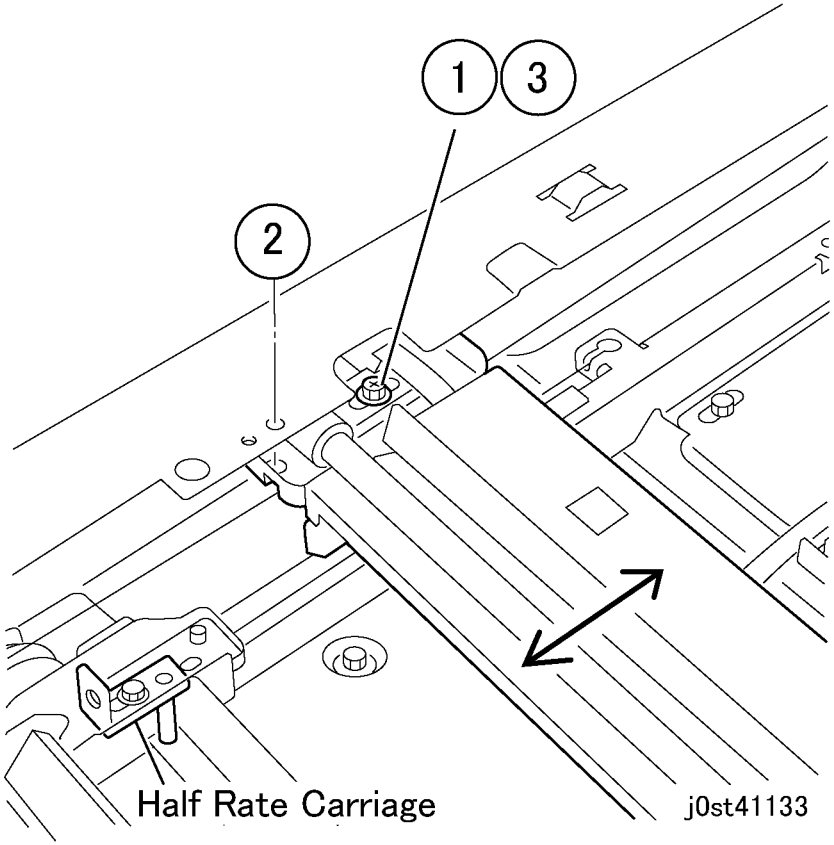


Figure 7 Position Adjustment of Full Rate Carriage 2/2 (j0st41133)

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 Lead Edge/Side Edge 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 Adjustment (ADJ 15.1.6)*

Check

1. Side 1 (1 Sided or Side 1 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with Side B (scan side) as Side 1. Make a copy using the following settings.

   A3 SEF

   100%

   1->1 Sided

   5 copies

   Side 2 (Side 2 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with Side B (scan side) as Side 2 (ie. Side A is Side 1). Make a copy using the following settings.

   A3 SEF

   100%

   2->2 Sided

   5 copies

2. Fold the third copy in half. Measure a distance (A shown in the figure) between the folding line and the central line. (Figure 1)

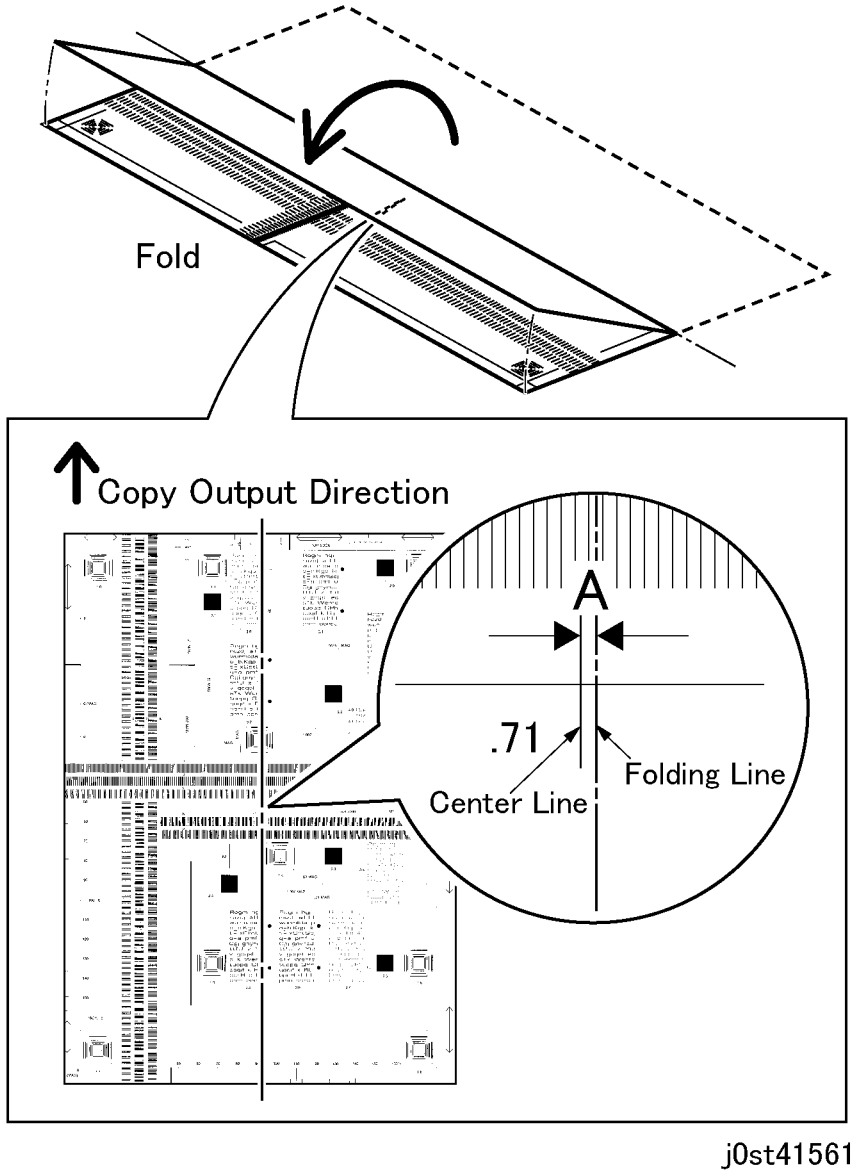


Figure 1 DADF Side Edge Registration (j0st41561)

3. Check that the distance between the central lines (A) falls within the specifications of the supporting mode.

Table 1 Specification

Item	Simplex	Duplex
Side Edge (Central Line Difference)	±2.9mm	±3.2mm

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 **NVM Read/Write**.
3. Adjust the distance between the central lines (A) using the following NVM so that the measured value falls within the specifications.

   If the folding line is to the right of the central line: Set a larger value.

   If the folding line is to the left of the central line: Set a Smaller value.

Table 2 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
715-110	CVT FS Offset Side1 Replace All	0	120	240	2 dot
715-111	CVT FS Offset Side2 Replace All	0	120	240	2 dot

4. Side 1 (1 Sided or Side 1 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with Side B (scan side) as Side 1. Make a copy using the following settings.

   A3 SEF or Legal SEF

   100%

   1->1 Sided

   1 copy

   Side 2 (Side 2 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with Side B (scan side) as Side 2 (ie. Side A is Side 1). Make a copy using the following settings.

   A3 SEF

   100%

   2->2 Sided

   1 copy
5. Repeat the procedure until the measured value of the distance between the central lines (A) falls within the specifications.
6. Set the following NVMs to the NVM (Chain-Link:715-111) adjustment value.

Table 3 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
715-112	CVT FS Offset Side3 Replace All	0	120	240	2 dot

Table 3 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
715-113	CVT FS Offset Side3 Replace All	0	120	240	2 dot

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 </= Fast Scan Direction Min. Value = 200 (within 20mm)*

   NOTE: *Slow Scan Direction Max </= 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)

3. Check the NVM Data setting.
4. 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 Scan Position (original scan position) Lead Edge (Slow Scan Direction).

NOTE: *The following adjustments must have been completed.*

- *IOT Lead Edge/Side Edge 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 Adjustment (ADJ 15.1.6)*

Check

1. Side 1 (1 Sided or Side 1 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with scan side as Side 1. Make a copy using the following settings.

   A3 SEF or Legal SEF

   100%

   1->1 Sided

   5 copies

   Side 2 (Side 2 of 2 Sided):

   Place Test Chart 82E2000 (A3) on the DADF with scan side as Side 2 (ie. Side B is Side 1). Make a copy using the following settings.

   A3 SEF or Legal SEF

   100%

   2->2 Sided

   5 copies

2. Measure the Lead Edge (part A of the figure) of the third copy. (Figure 1)

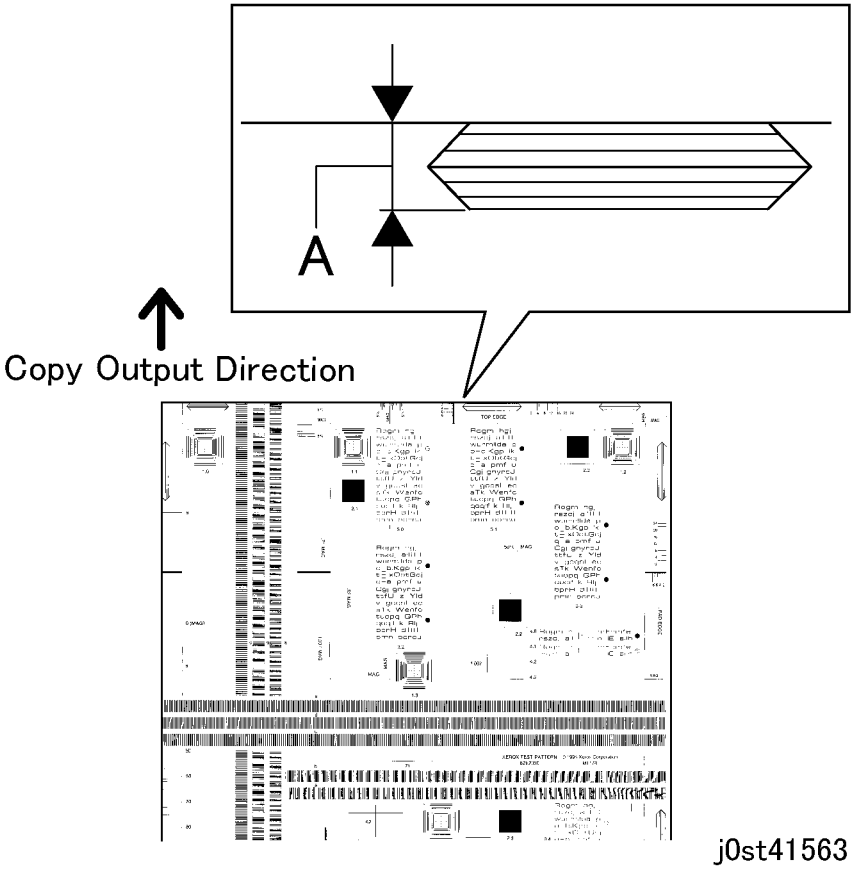


Figure 1 DADF Lead Edge Registration (j0st41563)

3. Check that the Lead Edge (A) falls within the specifications of the supporting mode.

Table 1 Specification

Item	Simplex	Duplex
Lead Edge	5 ± 2.2mm	5 ± 3.0mm

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 **NVM Read/Write**.
3. Adjust the Lead Edge (A) using the following NVM so that the measured value falls within the 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 (Side1) Replace All	0	129	214	0.458mm
711-141	DADF Lead Reg. Adjustment (Side2) Replace All	0	129	214	0.458mm

4. After adjustment, make a copy using the following settings.

   Side 1 (1 Sided or Side 1 of 2 Sided):

   Place Test Chart 82P521 (A3) or 82P524 (Legal) on the DADF with Side A (scan side) as Side 1. Make a copy using the following settings.

   A3 SEF or Legal SEF

   100%

   1->1 Sided

   1 copy

   Side 2 (Side 2 of 2 Sided):

   Place Test Chart 82P521 (A3) or 82P524 (Legal) on the DADF with Side A (scan side) as Side 2 (ie. Side B is Side 1). Make a copy using the following settings.

   A3 SEF or Legal SEF

   100%

   2->2 Sided

   1 copy
5. Repeat the procedure until the measured value of the Lead Edge (A) 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.

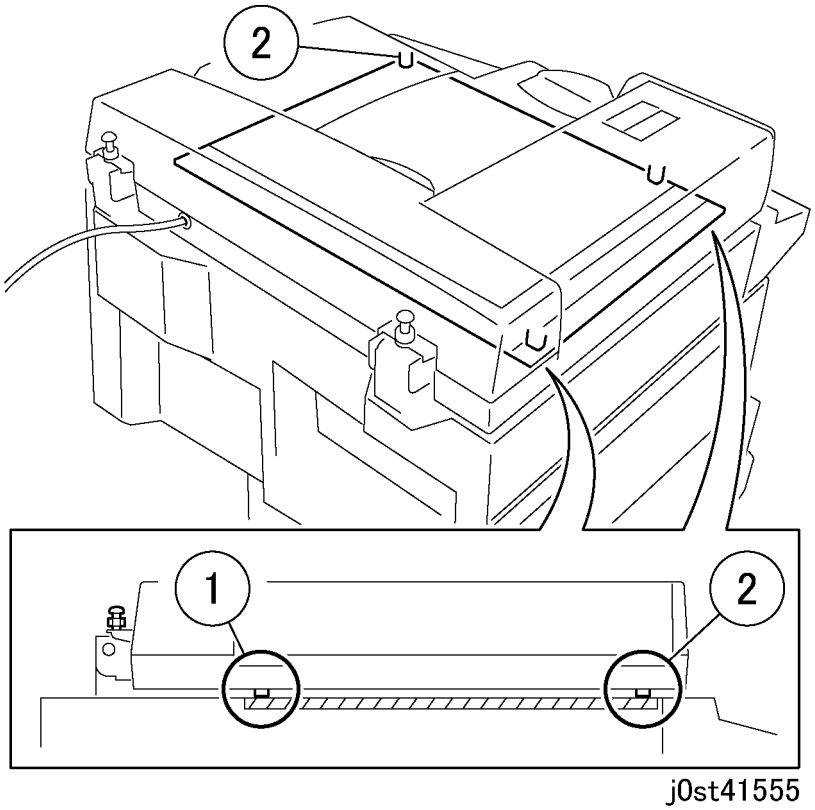


Figure 1 Checking the gap between the DADF Platen Guide and the Platen Glass (j0st41555)

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)

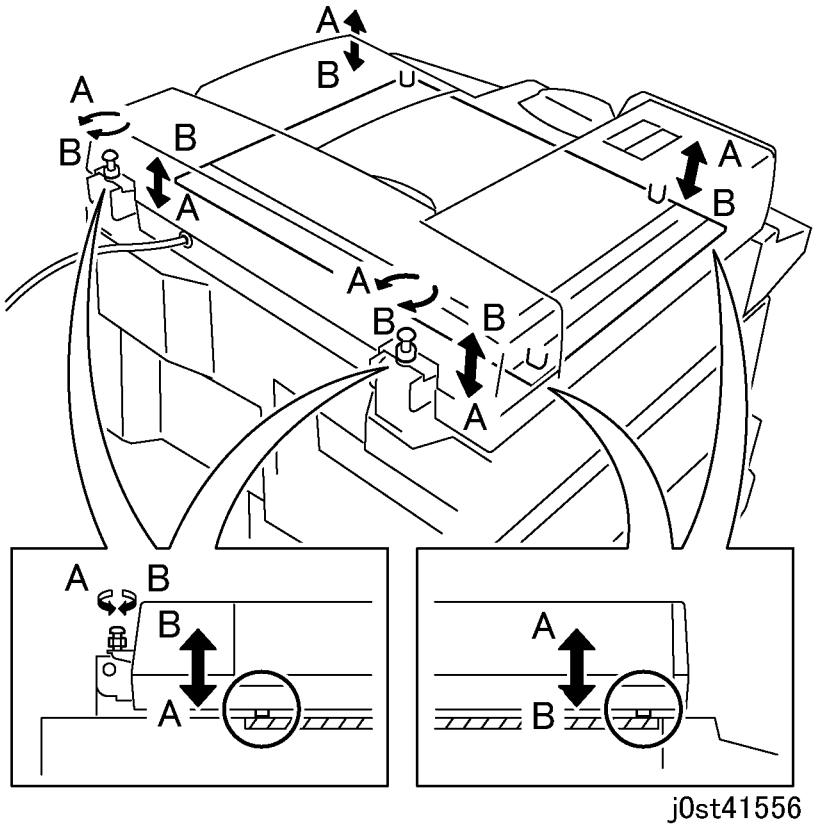


Figure 2 Adjusting the DADF Height (j0st41556)

NOTE: *Ensure that the nut is securely tightened after adjustment.*

ADJ 15.1.6 DADF Position Adjustment

Purpose

To correct the feeding of the original by adjusting the height of the DADF. (DADF Lead Skew, Orthogonality)

Check

1. Place the Test Chart 82P524 (Legal) on the DADF.
2. Make a copy using the following settings in Copy mode.
   - Paper Tray: “Legal SEF”
   - Reduce/Enlarge: “100%”
   - Number of copies: “3”
3. Check that the difference in the distance (A and B) between the side and the Edges in the 3 copies is within 0±0.5mm. (Figure 1)

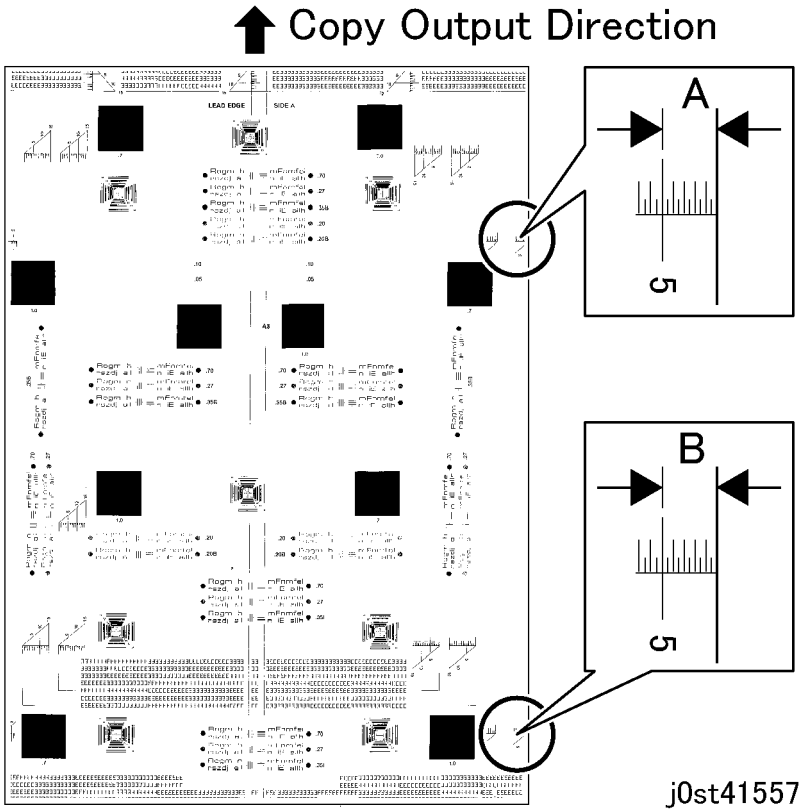


Figure 1 Checking the Lead Skew in the original (j0st41557)

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 (x5).
   2. Move the DADF in direction A or B.
   3. Tighten the screws (x5).

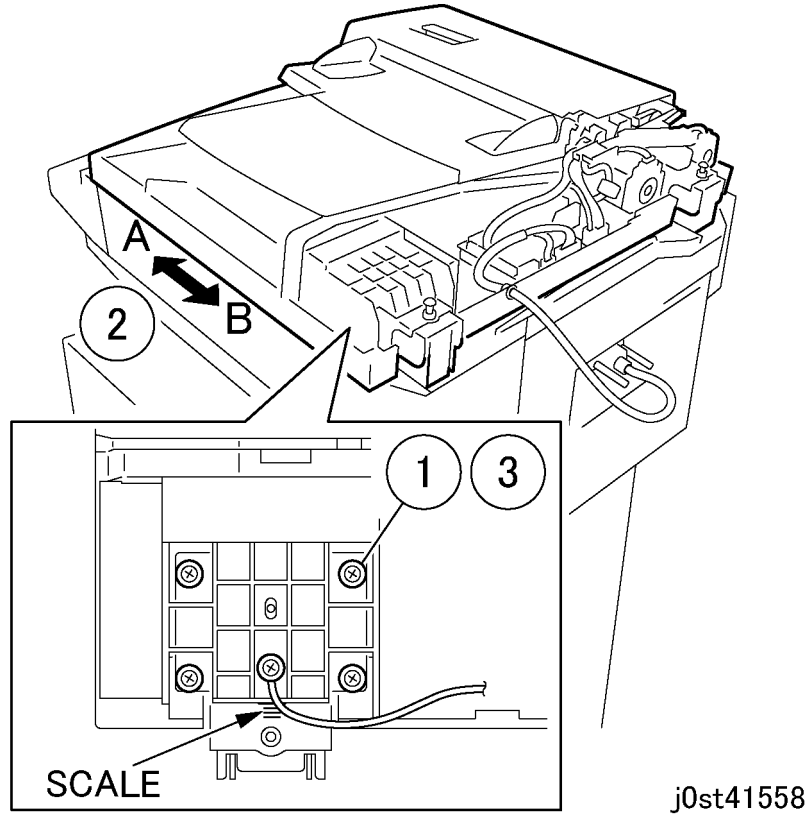


Figure 2 Adjusting the DADF Position (j0st41558)

- The DADF moved in direction A. (Figure 3)

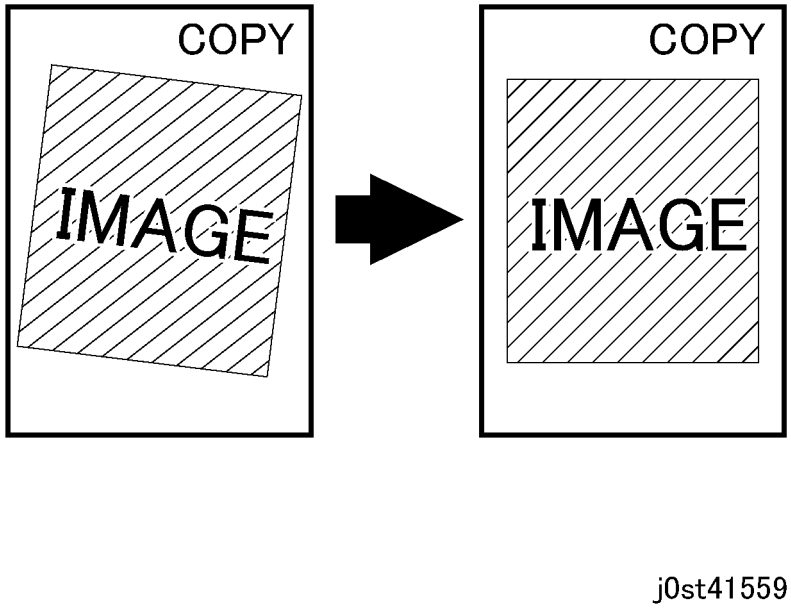


Figure 3 Output copy after adjustment (j0st41559)

- The DADF moved in direction B. (Figure 4)

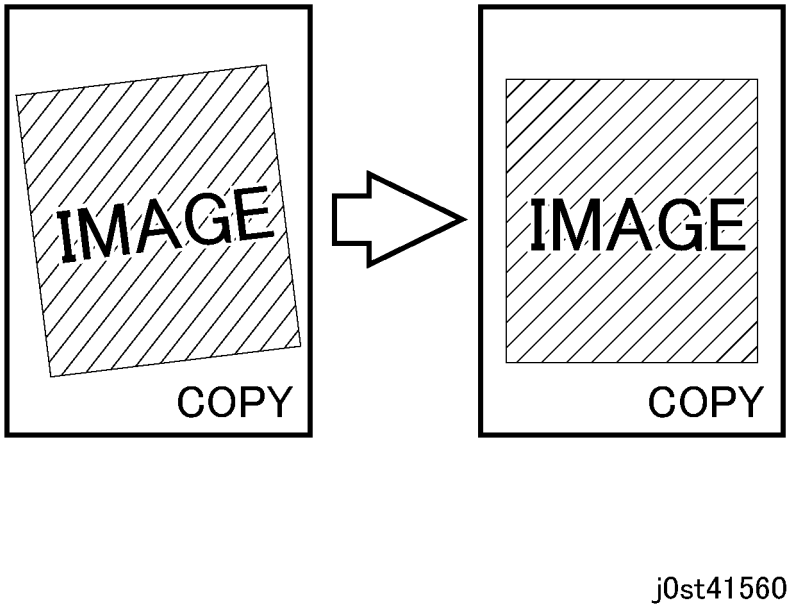


Figure 4 Output copy after adjustment (j0st41560)

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).

5 Parts List

16. Finisher

Common Hardware

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 Abbreviations

Abbreviation	Meaning
A3	297 x 594 Millimeters
A4	210 x 297 Millimeters
A5	148 x 210 Millimeters
AD	Auto Duplex
AWG	American Wire Gauge
APS	Auto Paper Selection
CCD	Charge Coupled Device
DADF	Dual Automatic Document Feeder
EMI	Electro Magnetic Induction
GB	Giga Byte
HUM	Humidity
KB	Kilo Byte
LED	Light Emitting Diode
L/H	Left Hand

Table 1 Abbreviations

Abbreviation	Meaning
MB	Mega Byte
MM	Millimeters
MOD	Magneto Optical Drive
MPT	Multi Purpose Tray
NOHAD	Noise Ozone Heat Air Dirt
OCT	Off Set Catch Tray
PL	Parts List
P/O	Part of
R/E	Reduction/Enlargement
ROS	Raster Output Scanner
TEMP	Temperature
UI	User Interface
XERO	Xerographics

Table 2 Operating Companies

Abbreviation	Meaning
AO	Americas Operations
ARZ	Republica Argentina
EU	Europe
NASG - US	North American Solutions Group - US
NASG - Canada	North American Solutions Group - Canada
XC	Xerox Corporation (North America)
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 5.1.1 , ADJ 9.1.1)

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

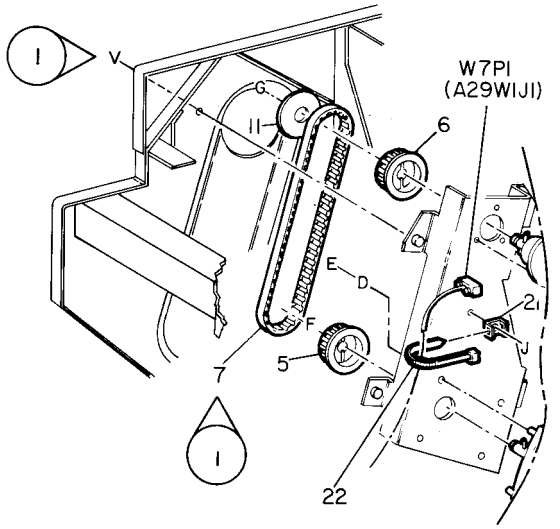
The notation “W/Tag” in the parts description indicates that the part configuration has been updated. Check the change Tag index in the General Information section of the Service Data for the name and purpose of the modification.

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

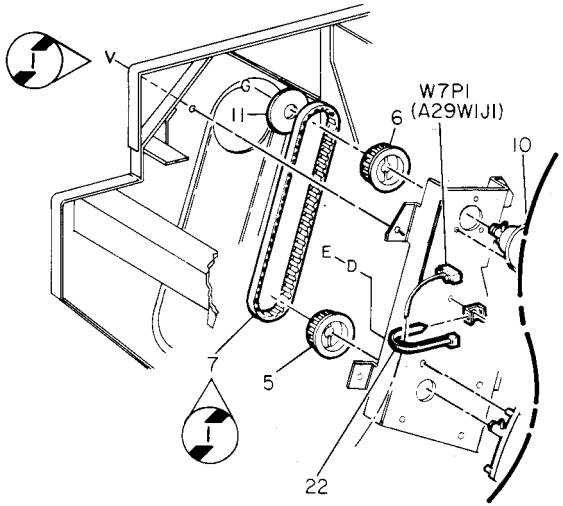
A Tag number within a circle pointing to an item number shows that the part has been changed by the tag number within the circle (Figure 1). Information on the modification is in the Change Tag Index.



0	Z004		A
850	PL	M	I

Figure 1 With Tag Symbol.(0z004a)

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).



0	Z005		A
850	PL	M	I

Figure 2 Without Tag Symbol.(0z005a)

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.

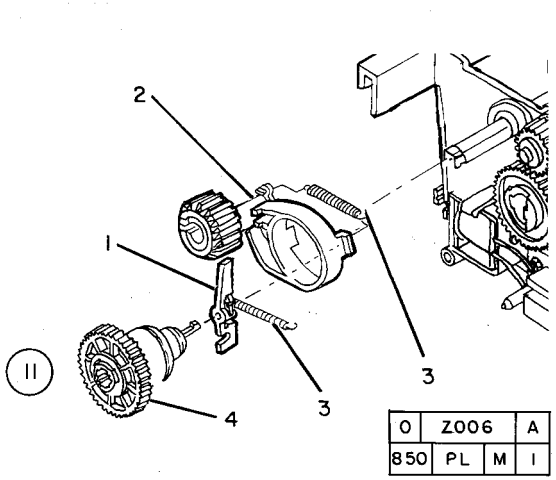


Figure 3 Entire Drawing With Tag Symbol.(0z006a)

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).

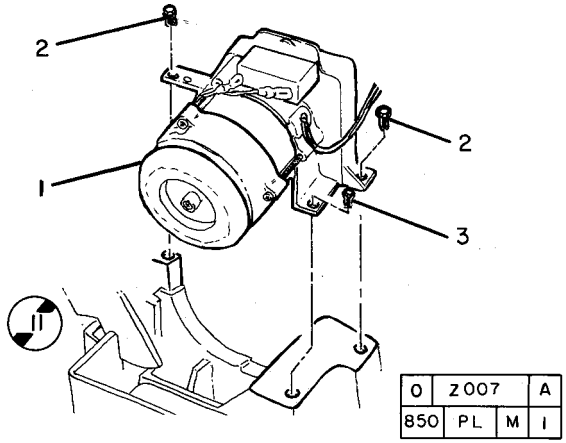


Figure 4 Entire Drawing Without Tag Symbol.(0z007a)

Below square colored black with number informs you that adjustment procedure for the parts is described in Section 4 Repairs and Adjustments. (Figure 5)

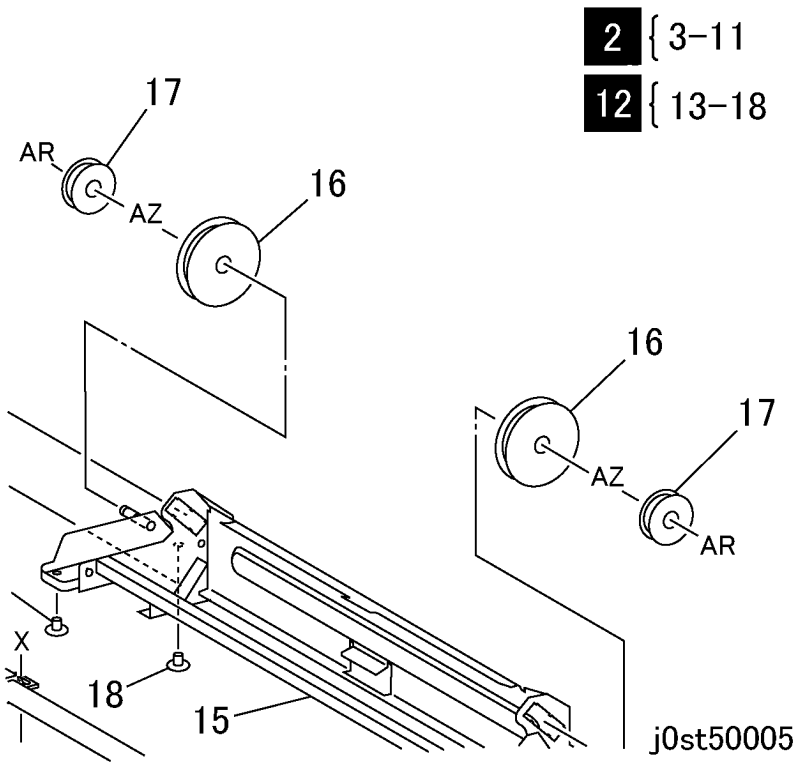


Figure 5 Adjustments procedure with item number.(j0st50005)

Below square with number informs you that repair procedure for the parts is described in Section 4 Repairs and Adjustments. (Figure 6)

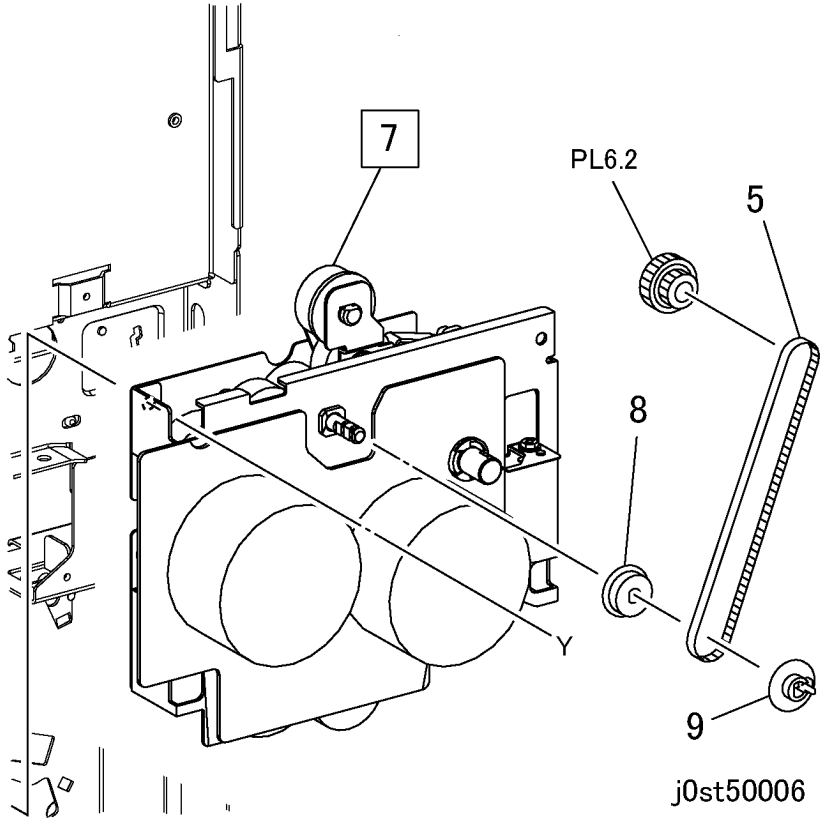


Figure 6 Repair procedure with item number.(j0st50006)

Below double square colored black with number informs you that repair/adjustment procedure for the parts is described in Section 4 Repairs and Adjustments. (Figure 7)

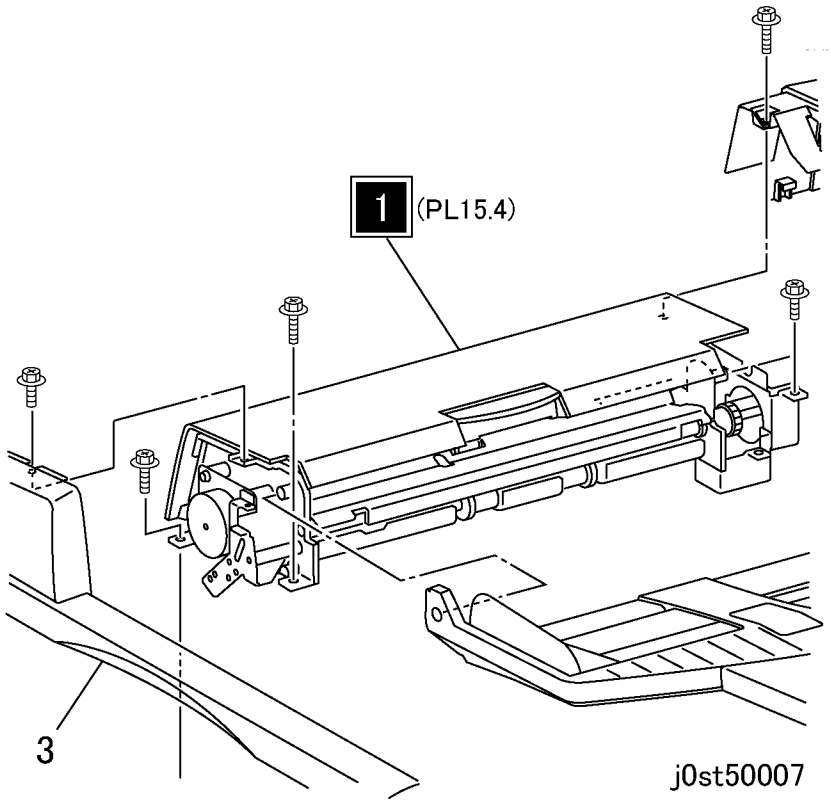
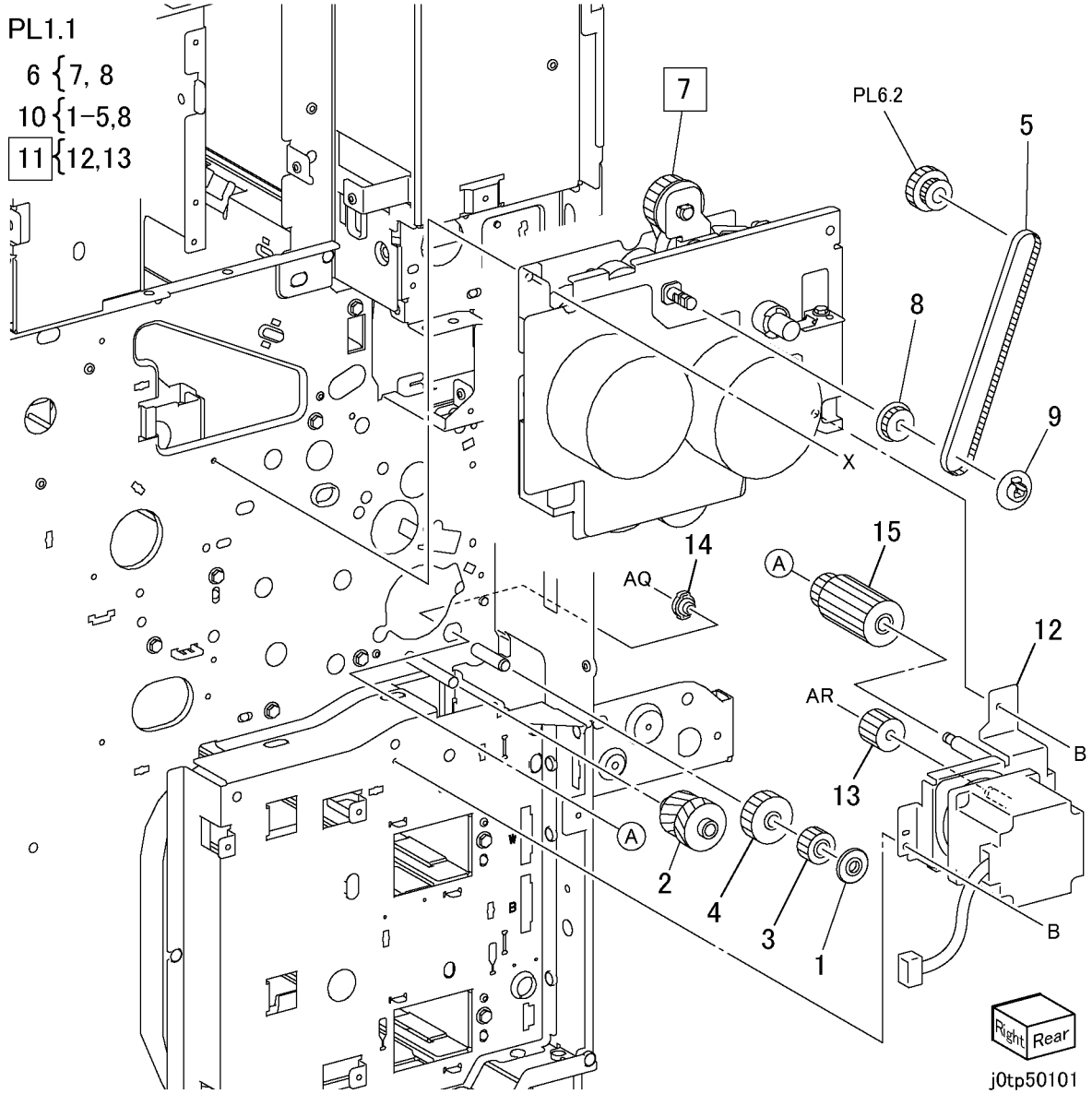


Figure 7 Repair and Adjustments procedure with item number.(j0st50007)

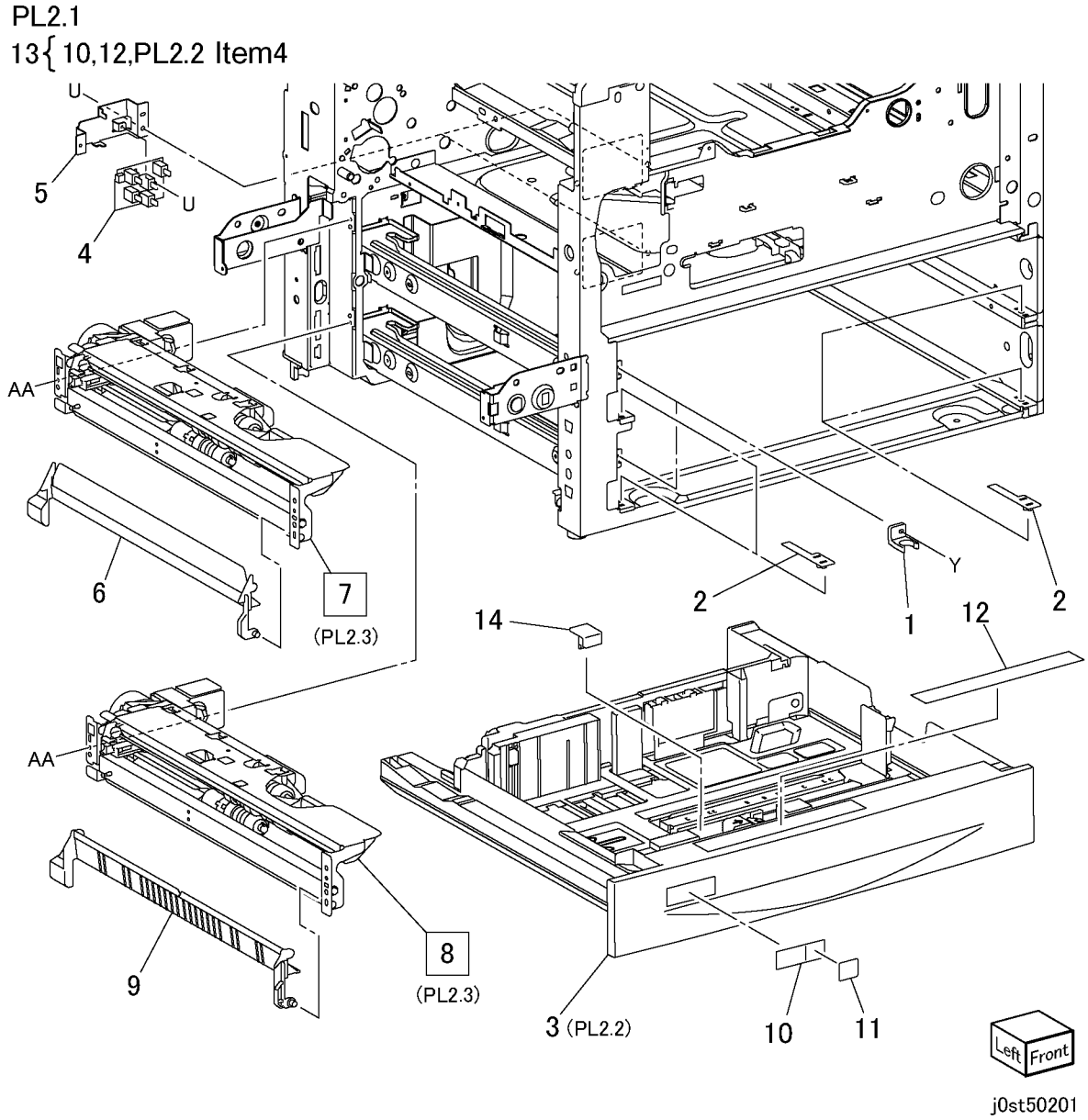
PL 1.1 Main Drive

Item	Part	Description
1	–	Collar (23/28CPM Model)(P/O PL 1.1 Item 10)
2	–	Gear (23/28CPM Model)(21/21T) (P/O PL 1.1 Item 10)
3	–	Gear (18T) (P/O PL 1.1 Item 10)
4	–	Gear (28T) (P/O PL 1.1 Item 10)
5	–	Belt (P/O PL 1.1 Item 10)
6	007K88583	Main Drive Unit
7	–	Main Drive Assembly (REP 1.1.1) (P/O PL 1.1 Item 6)
8	–	Pulley (P/O PL 1.1 Item 6, PL 1.1 Item 10)
9	005E17860	Flange
10	604K20500	Drive Gear Kit
11	127K45361	Takeaway Motor Assembly (33CPM Model)(REP 1.1.2)
12	–	Takeaway Motor (P/O PL 1.1 Item 11)
13	–	Gear (19T)(P/O PL 1.1 Item 11)
14	013E26090	Bearing(33CPM Model)
15	807E08690	Gear (29T/19T)(33CPM Model)



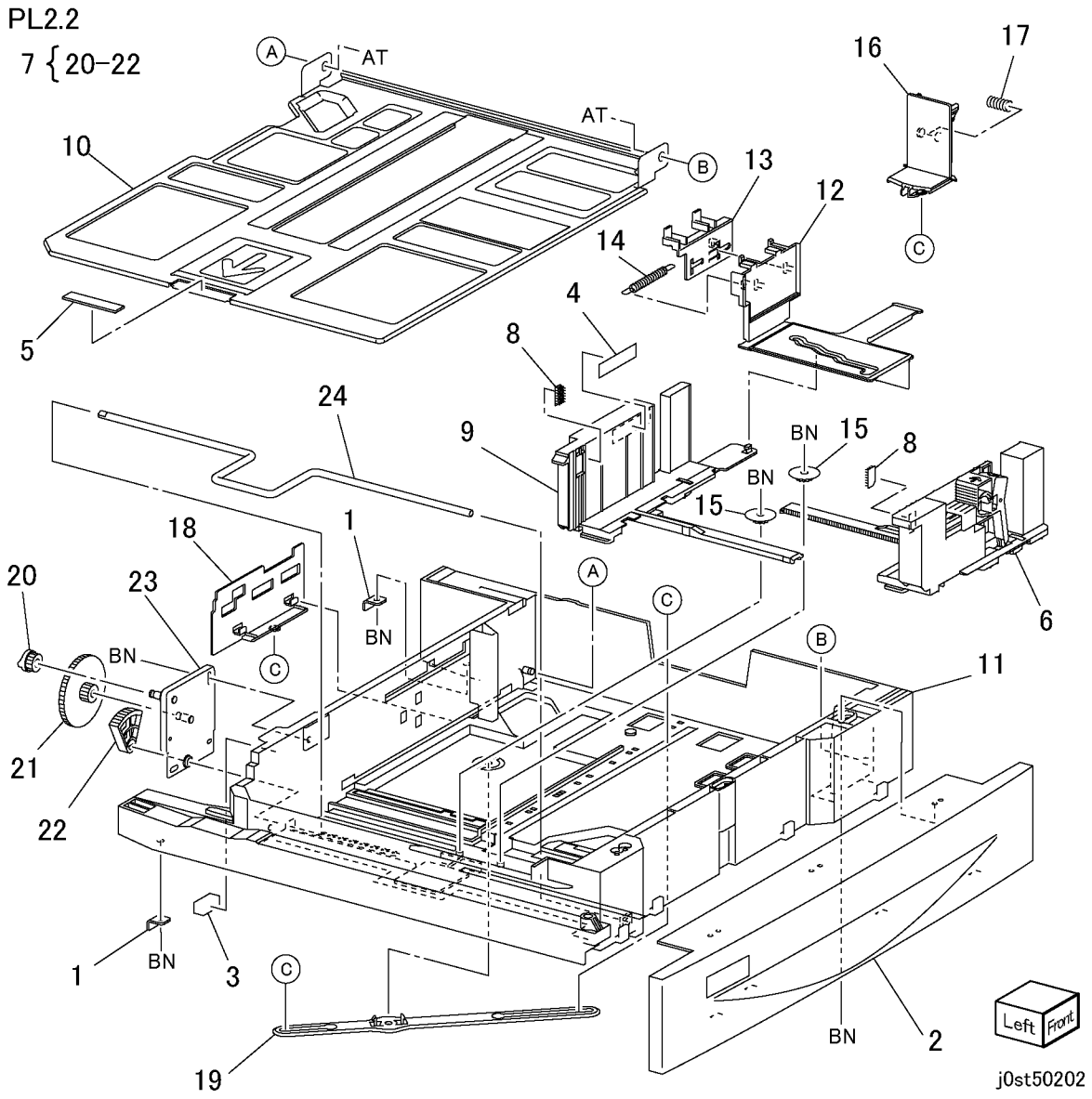
PL 2.1 Tray, Feeder 1/2 Assembly

Item	Part	Description
1	003E58700	Stopper
2	014E44710	Spacer
3	050K49840	Tray Assembly (PL 2.2)
4	110K11680	Tray 1 Paper Size Switch
–	110K11680	Tray 2 Paper Size Switch
5	–	Bracket (Not Spared)
6	054K24090	Feed Out Chute
7	059K26953	Feeder 1 Assembly (23/28CPM Model)(PL 2.3) (REP 2.1.1)
–	059K42520	Feeder1 Assembly(33CPM Model)(PL 2.3)(REP 2.1.1)
8	059K26953	Feeder 2 Assembly(23/28CPM Model) (PL 2.3) (REP 2.1.2)
–	059K42520	Feeder2 Assembly(33CPM Model)(PL 2.3)(REP 2.1.2)
9	054K27050	Feed Out Chute
10	–	Label Tray No1 (P/O PL 2.1 Item 13)
–	–	Label Tray No2 (P/O PL 2.1 Item 13)
11	–	Label Size (Not Spared)
12	–	Label (Instruction) (P/O PL 2.1 Item 13)
13	604K20550	Tray Label Kit
14	–	Slide Look (Not Spared)



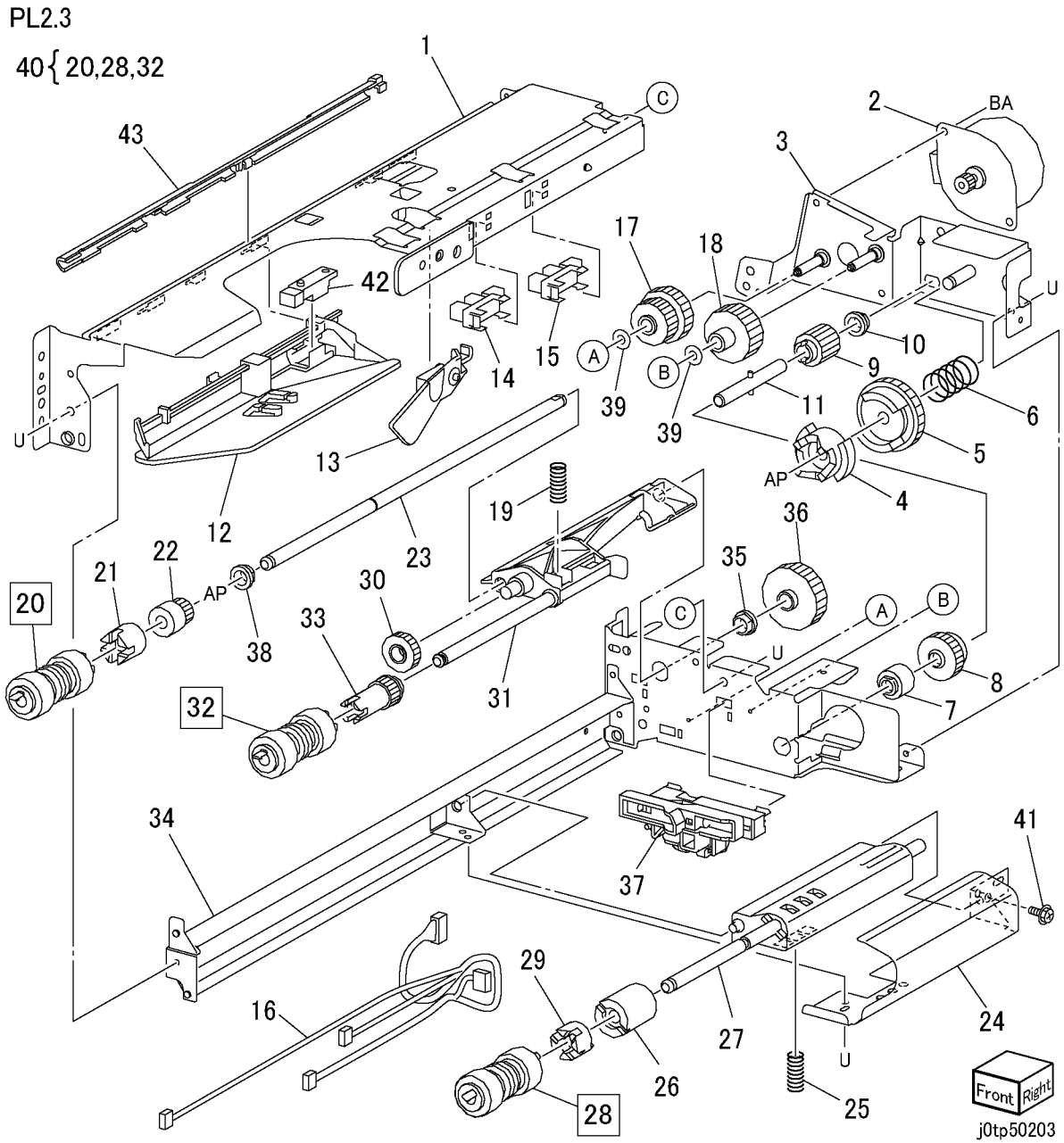
PL 2.2 Tray 1/2

Item	Part	Description
1	–	Stopper (P/O PL 2.1 Item 3)
2	–	Tray Cover (P/O PL 2.1 Item 3)
3	–	Seal (P/O PL 2.1 Item 3)
4	–	Label (Max) (P/O PL 2.1 Item 13)
5	–	Bottom Pad (P/O PL 2.1 Item 3)
6	–	Front Side Guide (P/O PL 2.1 Item 3)
7	604K20540	Tray Gear Kit
8	–	Tray Pad (P/O PL 2.1 Item 3)
9	–	Rear Side Guide (P/O PL 2.1 Item 3)
10	–	Bottom Plate (P/O PL 2.1 Item 3)
11	–	Tray (P/O PL 2.1 Item 3)
12	–	Side Guide Actuator (P/O PL 2.1 Item 3)
13	–	Guide Actuator (P/O PL 2.1 Item 3)
14	–	Spring (P/O PL 2.1 Item 3)
15	–	Pinion Gear (P/O PL 2.1 Item 3)
16	–	End Guide (P/O PL 2.1 Item 3)
17	–	Spring (P/O PL 2.1 Item 3)
18	–	End Guide Actuator (P/O PL 2.1 Item 3)
19	–	Link (P/O PL 2.1 Item 3)
20	–	Coupling Gear (13T) (P/O PL 2.2 Item 7)
21	–	Gear (13T/60T) (P/O PL 2.2 Item 7)
22	–	Sector Gear (60T) (P/O PL 2.2 Item 7)
23	–	Bracket (P/O PL 2.1 Item 3)
24	–	Lift Up Shaft (P/O PL 2.1 Item 3)



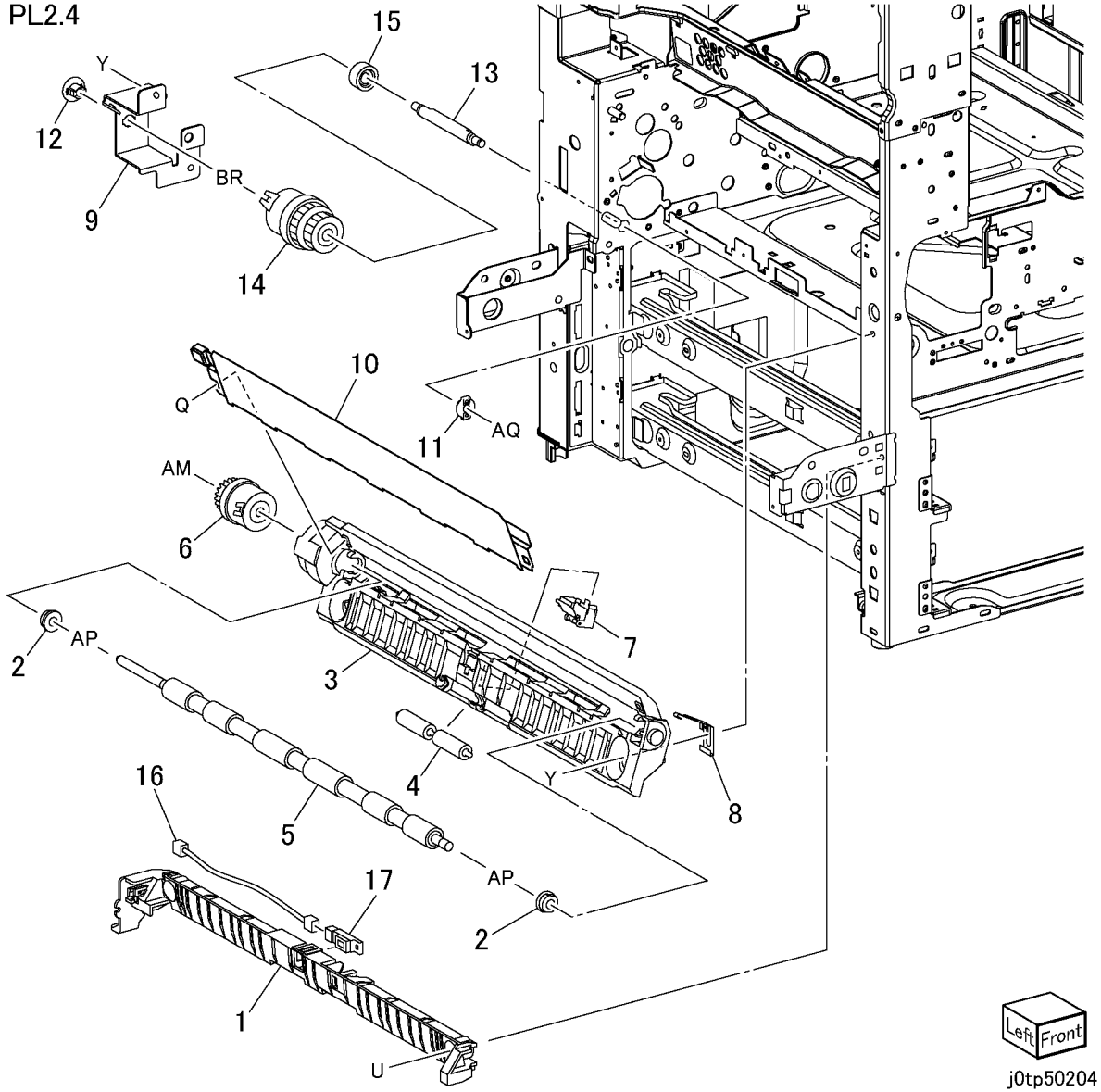
PL 2.3 Feeder 1/2 Assembly

Item	Part	Description
1	–	Upper Frame (P/O PL 2.1 Item 7)
2	127 38170	Tray 1/2 Feed/Lift Up Motor
3	–	Bracket (P/O PL 2.1 Item 7)
4	–	Spacer (P/O PL 2.1 Item 7)
5	–	Gear (31T) (P/O PL 2.1 Item 7)
6	–	Spring (P/O PL 2.1 Item 7)
7	–	Oneway Clutch (P/O PL 2.1 Item 7)
8	–	Oneway Gear (P/O PL 2.1 Item 7)
9	–	Gear (13T) (P/O PL 2.1 Item 7)
10	–	Bearing (P/O PL 2.1 Item 7)
11	–	Shaft (P/O PL 2.1 Item 7)
12	–	Front Chute (P/O PL 2.1 Item 7)
13	120E22481	Actuator
14	930W00113	Tray 1/2 Level Sensor
15	930W00113	Tray 1/2 No Paper Sensor
16	962K19691	Wire Harness (23/28CPM Model)
–	962K18912	Wire Harness (33CPM Model)
17	–	Gear (28T/21T) (P/O PL 2.1 Item 7)
18	–	Gear (29T) (P/O PL 2.1 Item 7)
19	–	Spring (P/O PL 2.1 Item 7)
20	–	Feed Roll (REP 2.3.1) (P/O PL 2.3 Item 40)
21	005K05890	Oneway Clutch
22	005K06760	Oneway Gear (22T)
23	–	Shaft (P/O PL 2.1 Item 7)
24	–	Chute (P/O PL 2.1 Item 7)
25	–	Spring (P/O PL 2.1 Item 7)
26	005K07010	Friction Clutch
27	–	Support Assembly (P/O PL 2.1 Item 7)
28	–	Retard Roll (REP 2.3.1) (P/O PL 2.3 Item 40)
29	–	Spacer (P/O PL 2.1 Item 7)
30	–	Gear (33T) (P/O PL 2.1 Item 7)
31	–	Support Assembly (P/O PL 2.1 Item 7)
32	–	Nudger Roll (REP 2.3.1) (P/O PL 2.3 Item 40)
33	–	Gear (25T) (P/O PL 2.1 Item 7)
34	–	Lower Frame (P/O PL 2.1 Item 7)
35	–	Bearing (P/O PL 2.1 Item 7)
36	–	Gear (34T) (P/O PL 2.1 Item 7)
37	–	Lever (P/O PL 2.1 Item 7)
38	–	Bearing (P/O PL 2.1 Item 7)
39	–	Washer (P/O PL 2.1 Item 7)
40	604K20530	Tray Feed Roller Kit
41	–	Screw (P/O PL 2.1 Item 7)
42	930W00211	Tray1/2 Pre Feed Sensor (33CPM Model)
43	–	Harness Holder(CTR)(23/28CPM Model) (P/O PL 2.1 Item 7)
–	113E37571	Harness Holder(CTR)(33CPM Model)



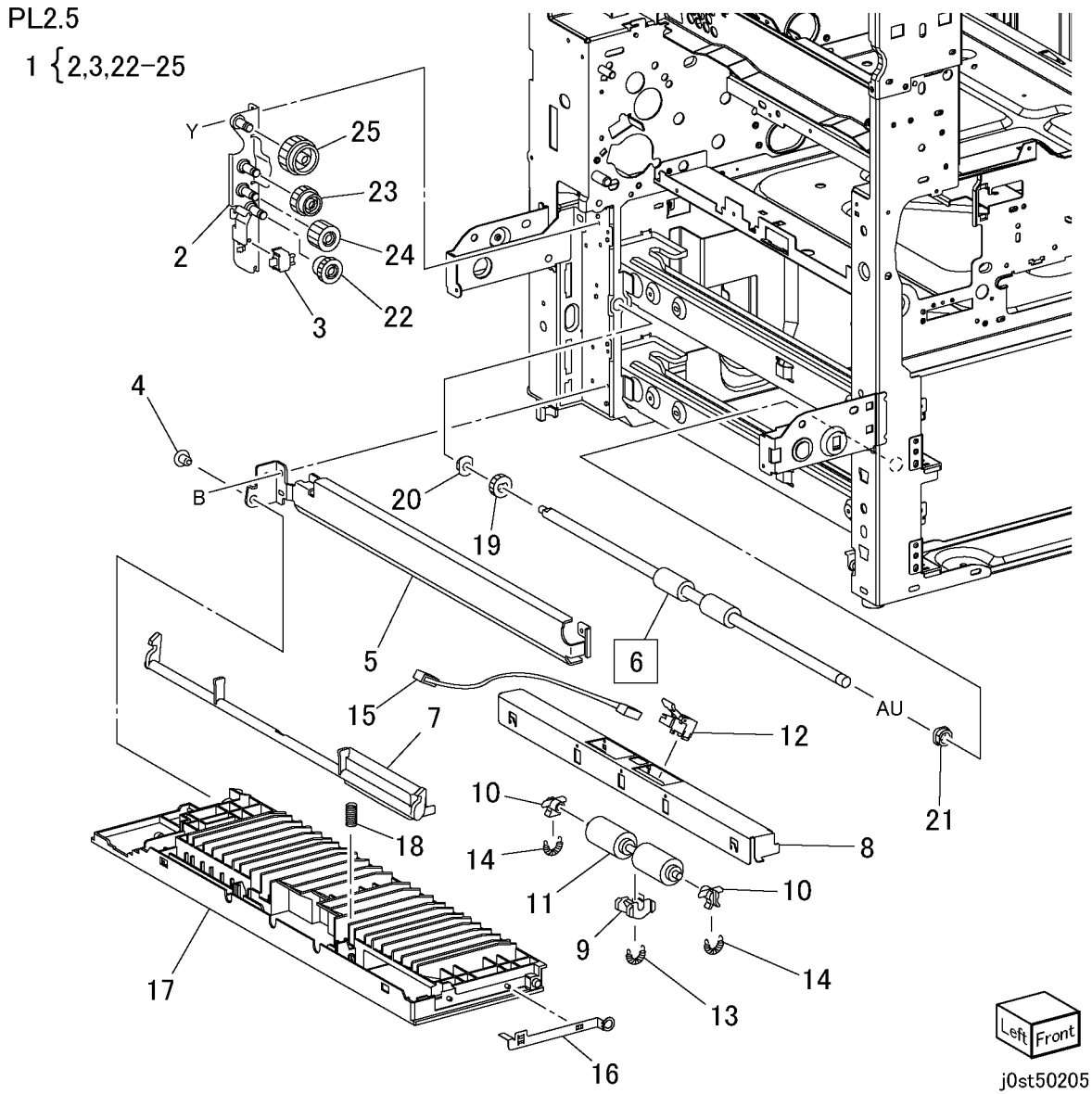
PL 2.4 Registration

Item	Part	Description
1	054E23910	Chute
2	013E26760	Bearing
3	054E23940	Registration Chute
4	059E98590	Idler Roll
5	059K31021	Registration Roll
6	121K32660	Registration Clutch
7	130K64270	Registration Sensor
8	–	Earth Plate (Not Spared)
9	–	Bracket (23/28CPM Model)(Not Spared)
10	054K23940	Chute Assembly
11	013E26060	Bearing (23/28CPM Model)
12	013E26090	Bearing (23/28CPM Model)
13	–	Shaft (23/28CPM Model)(Not Spared)
14	121K31640	Takeaway Roll Clutch (23/28CPM Model)(Alternate)
–	121K32730	Takeaway Roll Clutch (23/28CPM Model)(Alternate)
15	007E79320	Gear (19T) (23/28CPM Model)
16	162K56100	Wire Harness (33CPM Model)
17	930W00211	Tray2 Feed Out Sensor (33CPM Model)



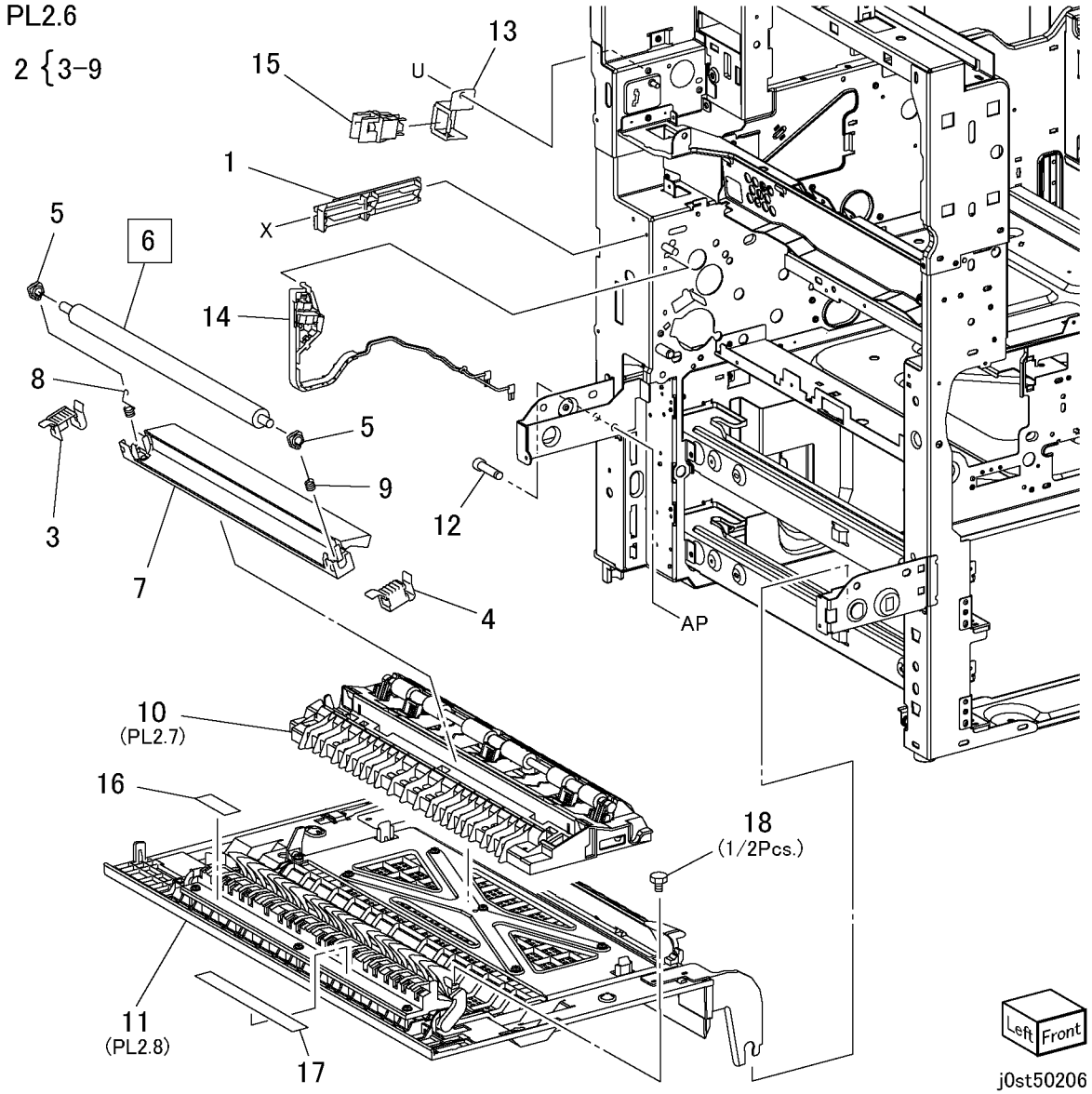
PL 2.5 Vertical Transport Cover

Item	Part	Description
1	015K61010	Gear Assembly
2	–	Bracket Assembly (P/O PL 2.5 Item 1)
3	–	L/H Lower Cover Interlock Switch (P/O PL 2.5 Item 1)
4	–	Rivet (Not Spared)
5	–	Lower Chute (Not Spared)
6	059K26840	Takeaway Roll (REP 2.5.1)
7	–	Handle (Not Spared)
8	–	Bracket (Not Spared)
9	–	Bearing (Not Spared)
10	–	Bearing (Not Spared)
11	059E98370	Pinch Roller
12	130K64261	Tray2 Feed Out Sensor (23/28CPM Model)
13	–	Spring (Not Spared)
14	–	Spring (Not Spared)
15	962K23460	Wire Harness (23/28CPM Model)
16	–	Earth Plate (Not Spared)
17	802E55701	L/H Lower Cover
18	–	Spring (Not Spared)
19	007E79270	Gear (18T)
20	013E26990	Bearing
21	413W11860	Bearing
22	–	Gear (21T) (P/O PL 2.5 Item 1)
23	–	Gear (23T) (P/O PL 2.5 Item 1)
24	–	Gear (22T) (P/O PL 2.5 Item 1)
25	–	Gear (31T) (P/O PL 2.5 Item 1)



PL 2.6 Transfer Cover Assembly

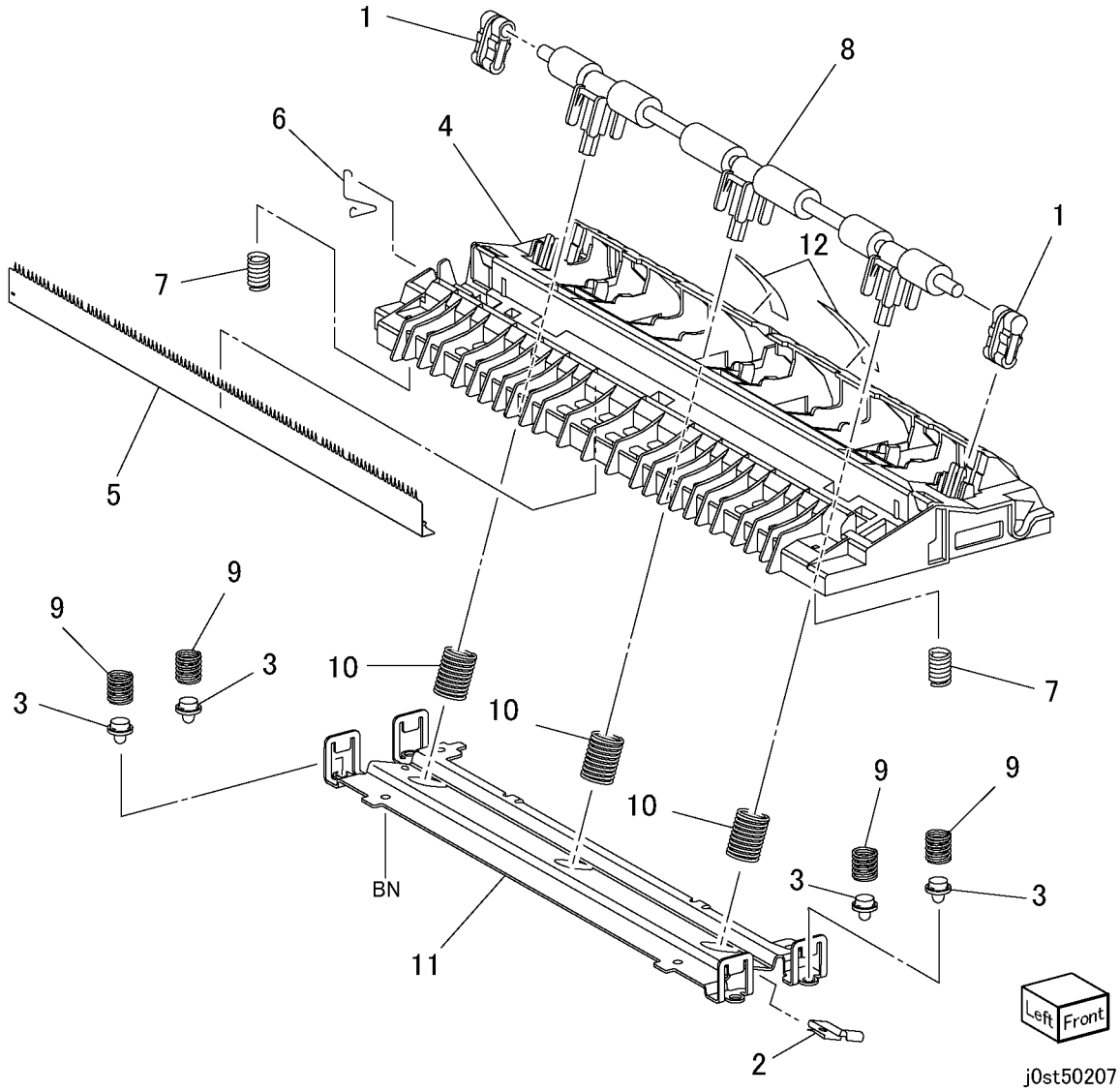
Item	Part	Description
1	012K94341	Link Assembly
2	802K56093	BTR Roll Assembly
3	–	Lever (Rear) (P/O PL 2.6 Item 2)
4	–	Lever (Front) (P/O PL 2.6 Item 2)
5	–	Bearing (P/O PL 2.6 Item 2)
6	–	BTR Roll (REP 2.6.1) (P/O PL 2.6 Item 2)
7	–	Housing (P/O PL 2.6 Item 2)
8	–	Spring (P/O PL 2.6 Item 2)
9	–	Spring (P/O PL 2.6 Item 2)
10	054K24051	L/H Upper Chute Assembly (PL 2.8)
11	802K58260	L/H Upper Cover Assembly (PL 2.7)
12	–	Stud (Not Spared)
13	–	Bracket (Not Spared)
14	802K49240	Wire Assembly
15	110E94770	L/H Cover Inter lock Switch
16	–	Label 220V (Not Spared)
17	–	Label 110V (Not Spared)
18	–	Screw (Not Spared)



PL 2.7 L/H Upper Chute Assembly

Item	Part	Description
1	–	Bearing (P/O PL 2.6 Item 10)
2	–	Earth Plate (P/O PL 2.6 Item 10)
3	–	Guide (P/O PL 2.6 Item 10)
4	–	L/H Chute (P/O PL 2.6 Item 10)
5	–	Eliminator (P/O PL 2.6 Item 10)
6	–	Spring Contact DTS (P/O PL 2.6 Item 10)
7	–	Spring Chute (P/O PL 2.6 Item 10)
8	–	Pinch Roll (P/O PL 2.6 Item 10)
9	–	Spring (P/O PL 2.6 Item 10)
10	–	Spring (P/O PL 2.6 Item 10)
11	–	Plate (P/O PL 2.6 Item 10)
12	–	Guide (P/O PL 2.6 Item 10)

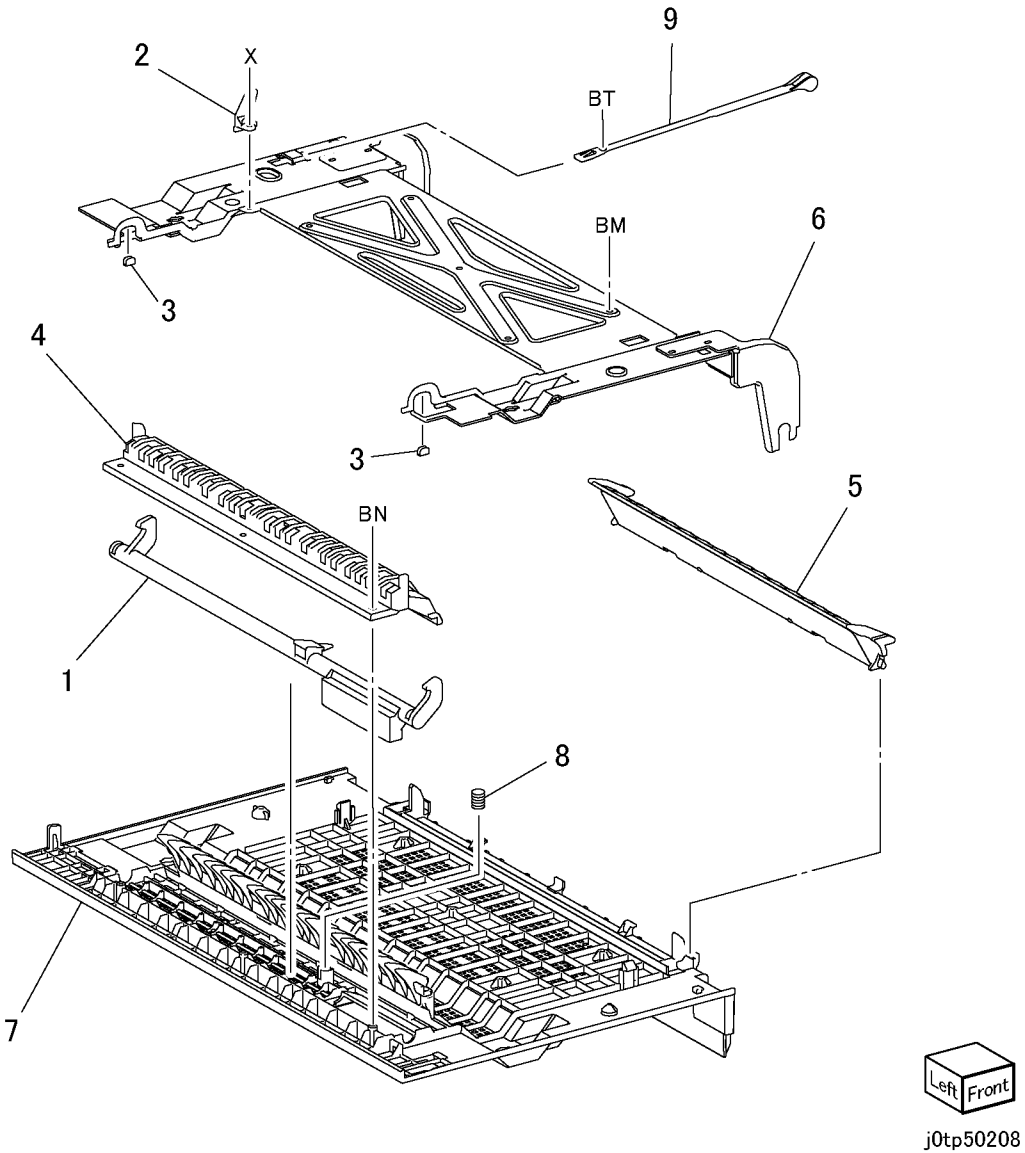
PL2.7



PL 2.8 L/H Upper Cover Assembly

Item	Part	Description
1	003E59832	Handle
2	–	XERO/Developer Cartridge Shutter (P/O PL 2.6 Item 11)
3	–	Handle Guide (P/O PL 2.6 Item 11)
4	054E23950	L/H Cover Chute
5	054K24060	Chute Assembly
6	–	Frame Assembly (P/O PL 2.6 Item 11)
7	802K65582	L/H Upper Cover
8	–	Spring (P/O PL 2.6 Item 11)
9	849E13981	Support

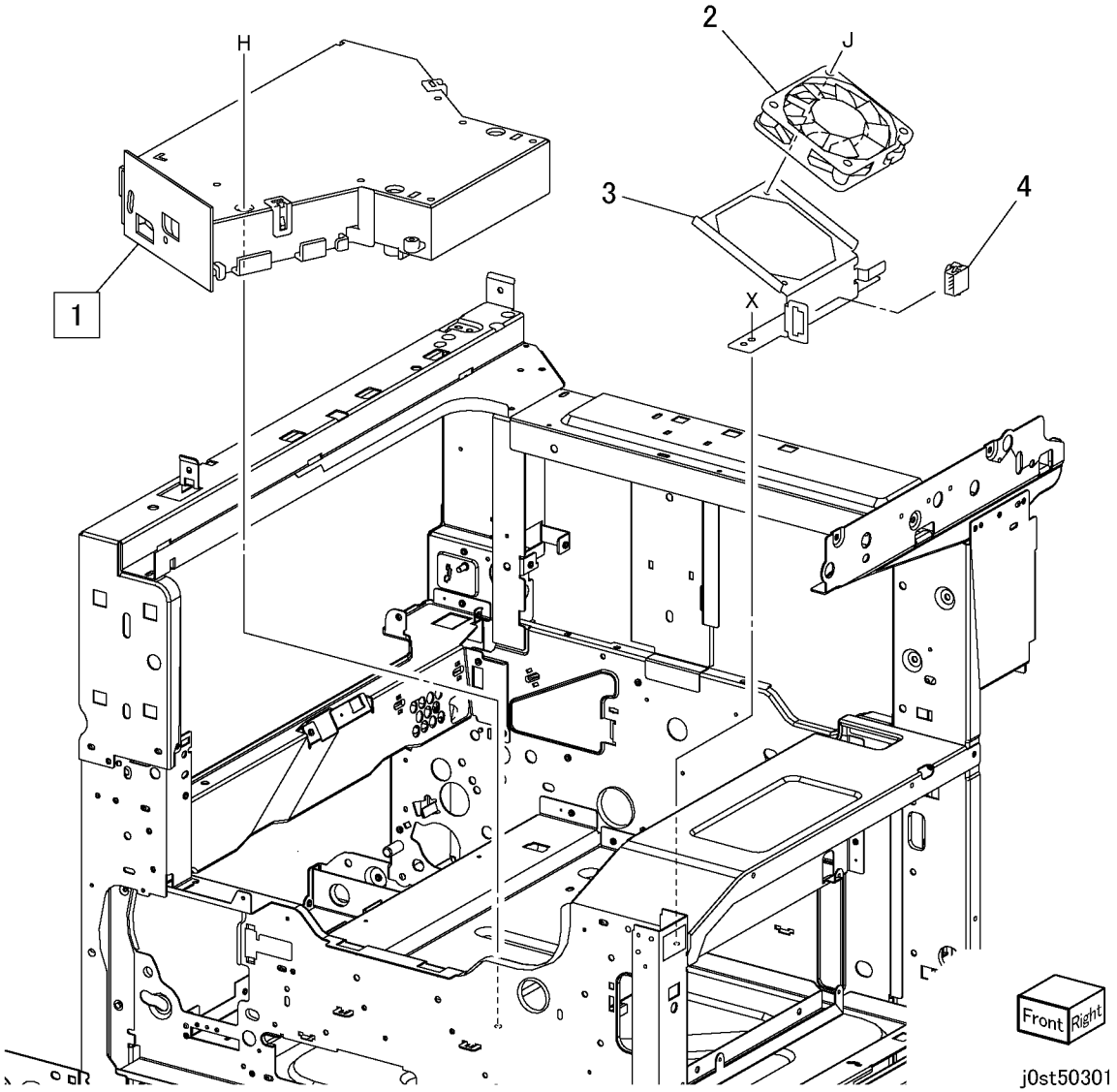
PL2.8



PL 3.1 ROS

Item	Part	Description
1	062K13580	ROS Unit (REP 3.1.1)
2	927W00111	ROS Fan
3	–	Bracket (Not Spared)
4	–	Connector (Not Spared)

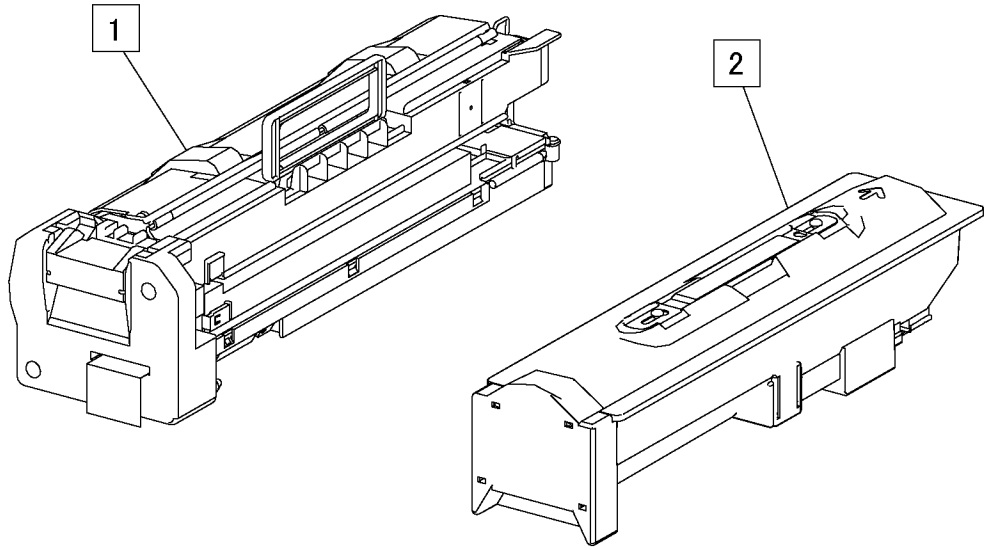
PL3.1

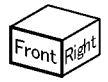


PL 4.1 CRU, Toner Cartridge

Item	Part	Description
1	013R00589	XERO/Developer Cartridge (REP 4.1.1)
2	–	Toner Cartridge (REP 4.1.2) (Not Spared)

PL4.1

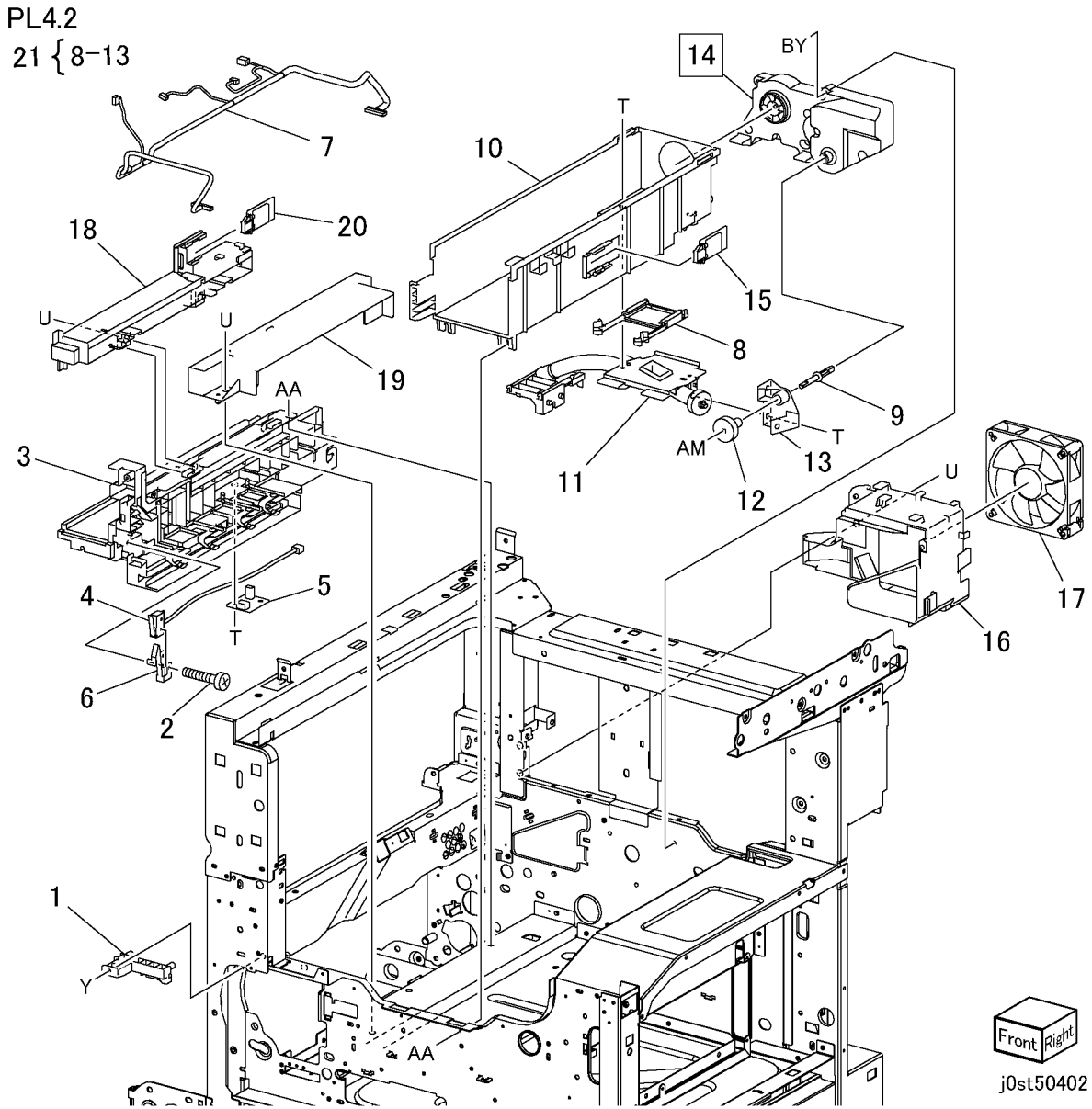




j0st50401

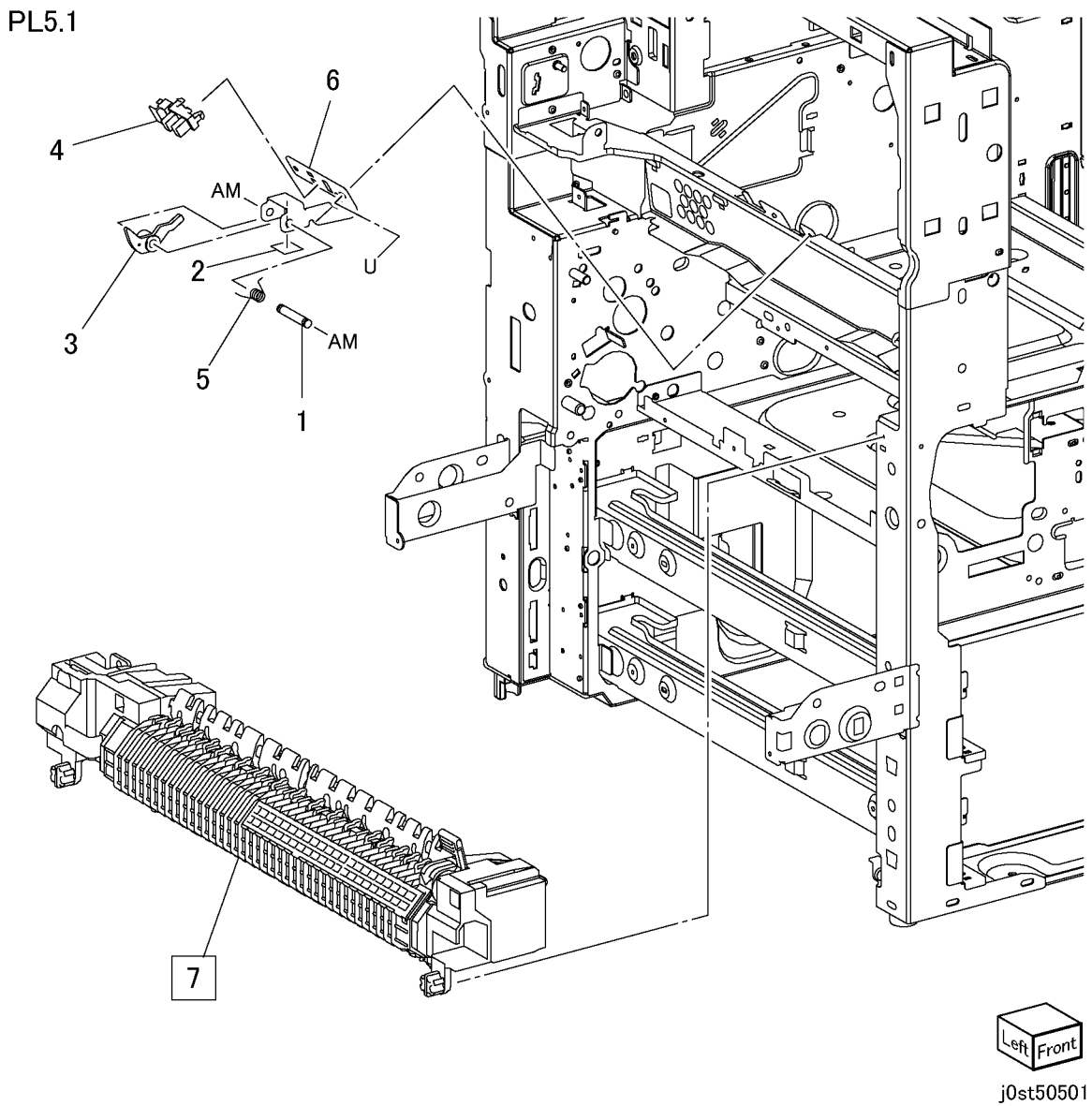
PL 4.2 Toner System

Item	Part	Description
1	–	Stopper (Not Spared)
2	–	Screw (Not Spared)
3	–	Guide Assembly (Not Spared)
4	110K11810	XERO Interlock Switch
5	130K87980	HUM and TEMP Sensor
6	–	Plate (Not Spared)
7	962K13060	Wire Harness
8	–	Stopper (P/O PL 4.2 Item 21)
9	–	Shaft (P/O PL 4.2 Item 21)
10	–	Toner Box (P/O PL 4.2 Item 21)
11	–	Dispense Assembly (P/O PL 4.2 Item 21)
12	–	Gear (13T) (P/O PL 4.2 Item 21)
13	–	Support (P/O PL 4.2 Item 21)
14	127K38040	Dispense Motor (REP 4.2.1)
15	160K95830	Toner Crum PWB
16	–	Duct (Not Spared)
17	127K37880	Fuser Fan
18	–	Housing Assembly (Not Spared)
19	–	Housing Assembly (Not Spared)
20	160K95830	XERO Crum PWB
21	032K96940	Toner Box Assembly



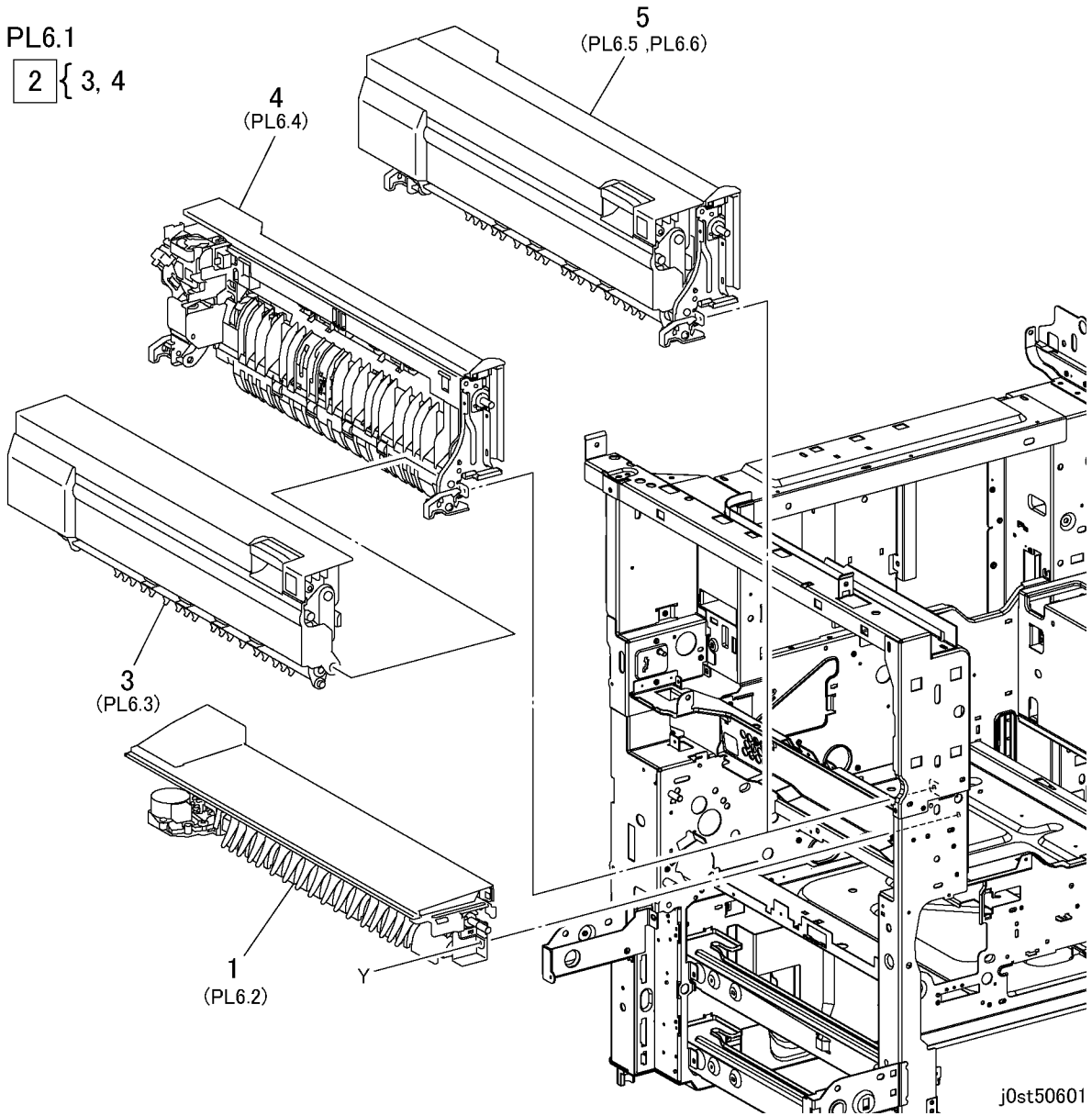
PL 5.1 Fuser Unit

Item	Part	Description
1	–	Shaft (Not Spared)
2	–	Insulator (Not Spared)
3	120E22121	Actuator
4	130E82740	Fuser Exit Sensor
5	809E42201	Spring
6	–	Bracket (Not Spared)
7	126K16480	Fuser Unit (110/127V) (REP 5.1.1)
–	126K16490	Fuser Unit (220/240V) (REP 5.1.1)



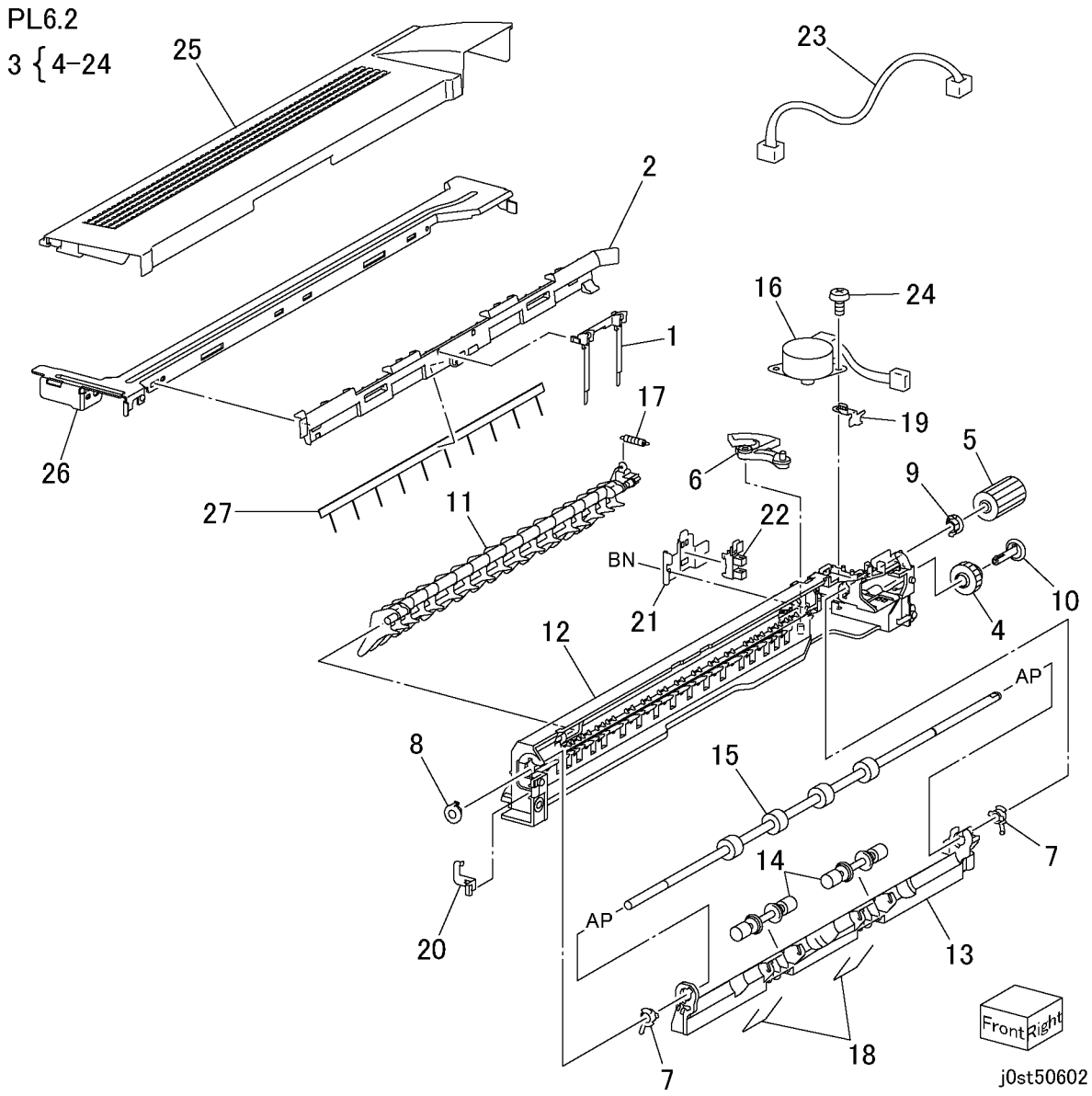
PL 6.1 Exit

Item	Part	Description
1	–	Exit 1 (PL 6.2) (Not Spared)
2	059K31560	Exit 2+OCT 2 (REP 6.1.1)
3	–	L/H Upper Chute Assembly (PL 6.3) (P/O PL 6.1 Item 2)
4	–	Tray Guide Assembly (PL 6.4) (P/O PL 6.1 Item 2)
5	–	Exit2 (PL 6.5, PL 6.6) (Not Spared)



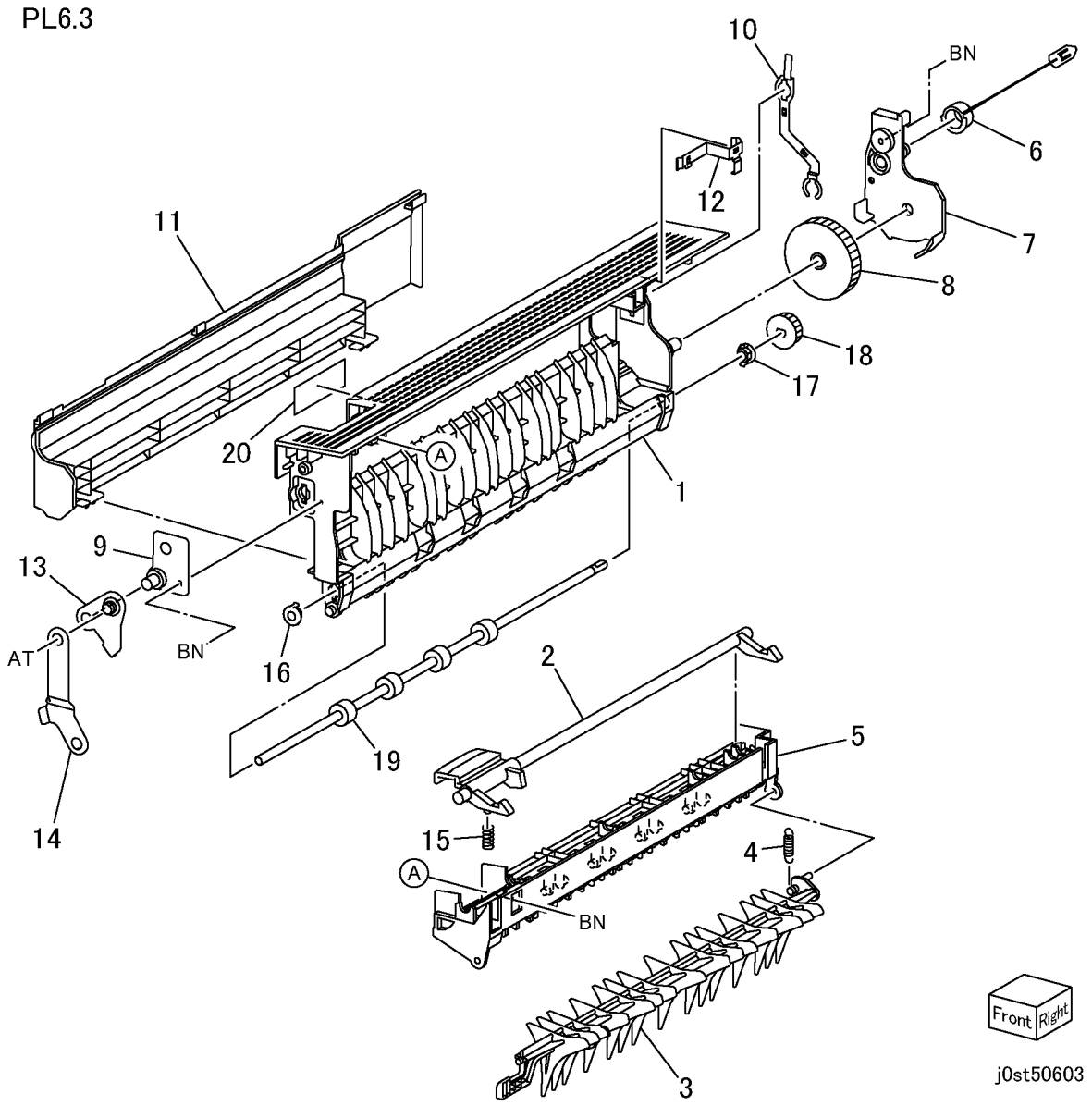
PL 6.2 Exit 1

Item	Part	Description
1	036K91620	Paper Weight Assembly
2	038E26723	Exit1 Tray Guide
3	059K31590	Exit1 Assembly
4	–	Gear (P/O PL 6.2 Item 3)
5	–	Gear (19T) (P/O PL 6.2 Item 3)
6	–	Offset Gear (P/O PL 6.2 Item 3)
7	–	Bearing (P/O PL 6.2 Item 3)
8	013E25550	Bearing
9	013E25840	Bearing
10	–	Cap (P/O PL 6.2 Item 3)
11	050E19802	Eixt1 Gate
12	–	Lower Chute (P/O PL 6.2 Item 3)
13	054E23842	OCT Chute
14	604K20390	2 Roller Kit (1Set:2)
15	059K26760	Exit1 Roll
16	127K37951	Offset Motor1
17	–	Spring (P/O PL 6.2 Item 3)
18	604K20420	2 Spring Kit (1Set:2)
19	–	Earth Plate (P/O PL 6.2 Item 3)
20	–	Earth Plate (P/O PL 6.2 Item 3)
21	–	Bracket (P/O PL 6.2 Item 3)
22	930W00113	OCT Home Sensor1
23	962K15241	Wire Harness
24	–	Screw (P/O PL 6.2 Item 3)
25	802E55150	Exit1 Top Cover
26	–	Bracket (Not Spared)
27	105E12210	Eliminator



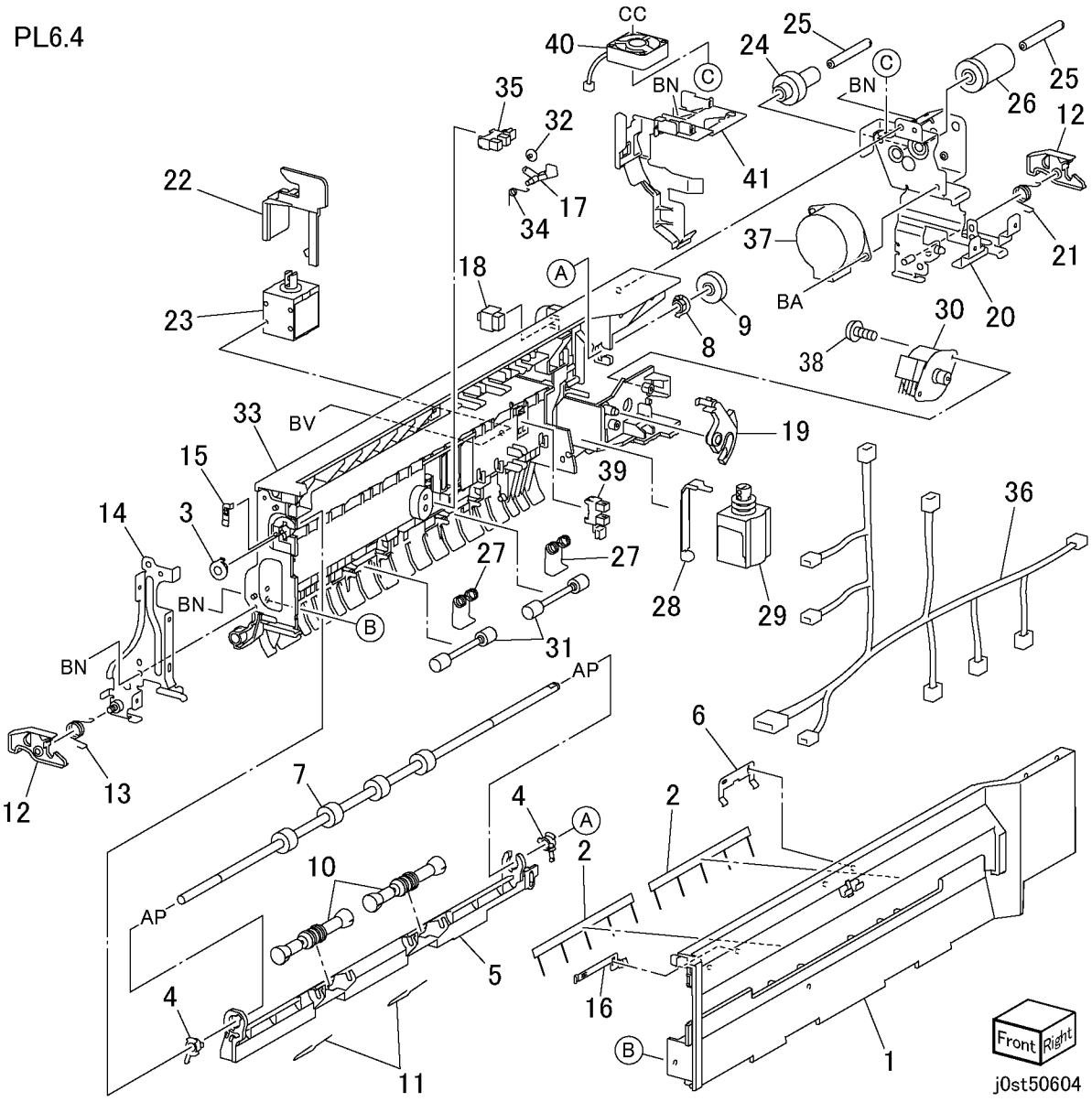
PL 6.3 L/H Upper Chute Assembly

Item	Part	Description
1	–	L/H Upper Chute (P/O PL 6.1 Item 3)
2	003E60160	Latch
3	050E20010	Exit 2 Gate
4	–	Spring (P/O PL 6.1 Item 3)
5	054E24371	Upper FU Chute
6	–	Stopper (P/O PL 6.1 Item 3)
7	–	Gear Cover (P/O PL 6.1 Item 3)
8	–	Gear (52T) (P/O PL 6.1 Item 3)
9	–	Bracket (P/O PL 6.1 Item 3)
10	–	Earth Plate (P/O PL 6.1 Item 3)
11	–	Face Up Exit Cover (P/O PL 6.1 Item 3)
12	–	Earth Plate (P/O PL 6.1 Item 3)
13	–	Bracket (P/O PL 6.1 Item 3)
14	–	Link (P/O PL 6.1 Item 3)
15	809E37170	Spring
16	–	Bearing (P/O PL 6.1 Item 3)
17	–	Bearing (P/O PL 6.1 Item 3)
18	–	Gear (19T) (P/O PL 6.1 Item 3)
19	–	Invert Roll Assembly (P/O PL 6.1 Item 3)
20	–	Label (P/O PL 6.1 Item 3)



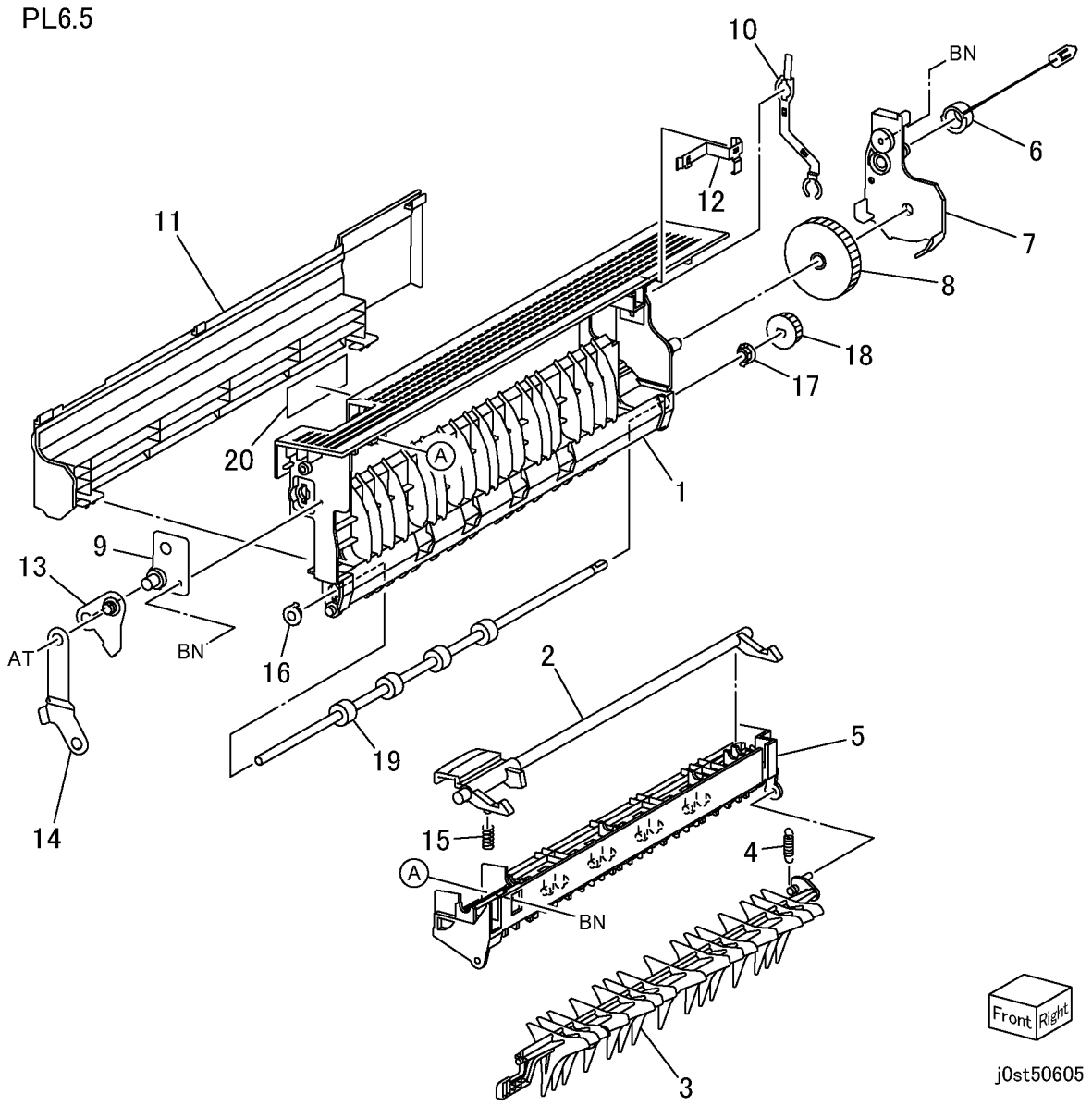
PL 6.4 Tray Guide Assembly

Item	Part	Description
1	–	Tray Guide (P/O PL 6.1 Item 4)
2	105E12940	Eliminator
3	–	Bearing (P/O PL 6.1 Item 4)
4	604K20680	Exit Bear Roll Kit (1Set:2)
5	054E24331	OCT2 Chute
6	–	Earth Plate (P/O PL 6.1 Item 4)
7	059K26760	Exit2 Roll
8	–	Bearing (P/O PL 6.1 Item 4)
9	807E00180	Gear (19T)
10	604K20690	Exit Roller Kit (1Set:2)
11	604K20700	Exit Spring Kit (1Set:2)
12	003E60171	Latch
13	809E50210	Spring
14	–	Front Plate (P/O PL 6.1 Item 4)
15	–	Earth Plate (P/O PL 6.1 Item 4)
16	–	Earth Plate (P/O PL 6.1 Item 4)
17	120E22451	Actuator
18	110E11580	Exit2 Interlock Switch
19	–	Offset Gear (P/O PL 6.1 Item 4)
20	–	Rear Plate (P/O PL 6.1 Item 4)
21	–	Spring (P/O PL 6.1 Item 4)
22	–	Link (P/O PL 6.1 Item 4)
23	121K32370	Face Up Gate Solenoid
24	–	Gear (20T) (P/O PL 6.1 Item 4)
25	–	Shaft (P/O PL 6.1 Item 4)
26	–	Gear (19T/44T) (P/O PL 6.1 Item 4)
27	604K20430	2 Spring 1 Kit (1Set:2)
28	–	Exit Gate Link (P/O PL 6.1 Item 4)
29	121K31810	Exit2 Gate Solenoid
30	127K37951	Offset Motor 2
31	604K20400	2 Roller 1 Kit (1Set:2)
32	059E98780	Actuator
33	–	Lower Chute (P/O PL 6.1 Item 4)
34	809E37332	Spring Actuator
35	930W00113	Exit2 Sensor
36	962K18882	Wire Harness
37	127K38261	Exit 2 Motor
38	–	Screw (P/O PL 6.1 Item 4)
39	930W00113	OCT Home Sensor 2
40	–	Exit Fan (P/O PL 6.1 Item 4)
41	–	Cover (P/O PL 6.1 Item 4)



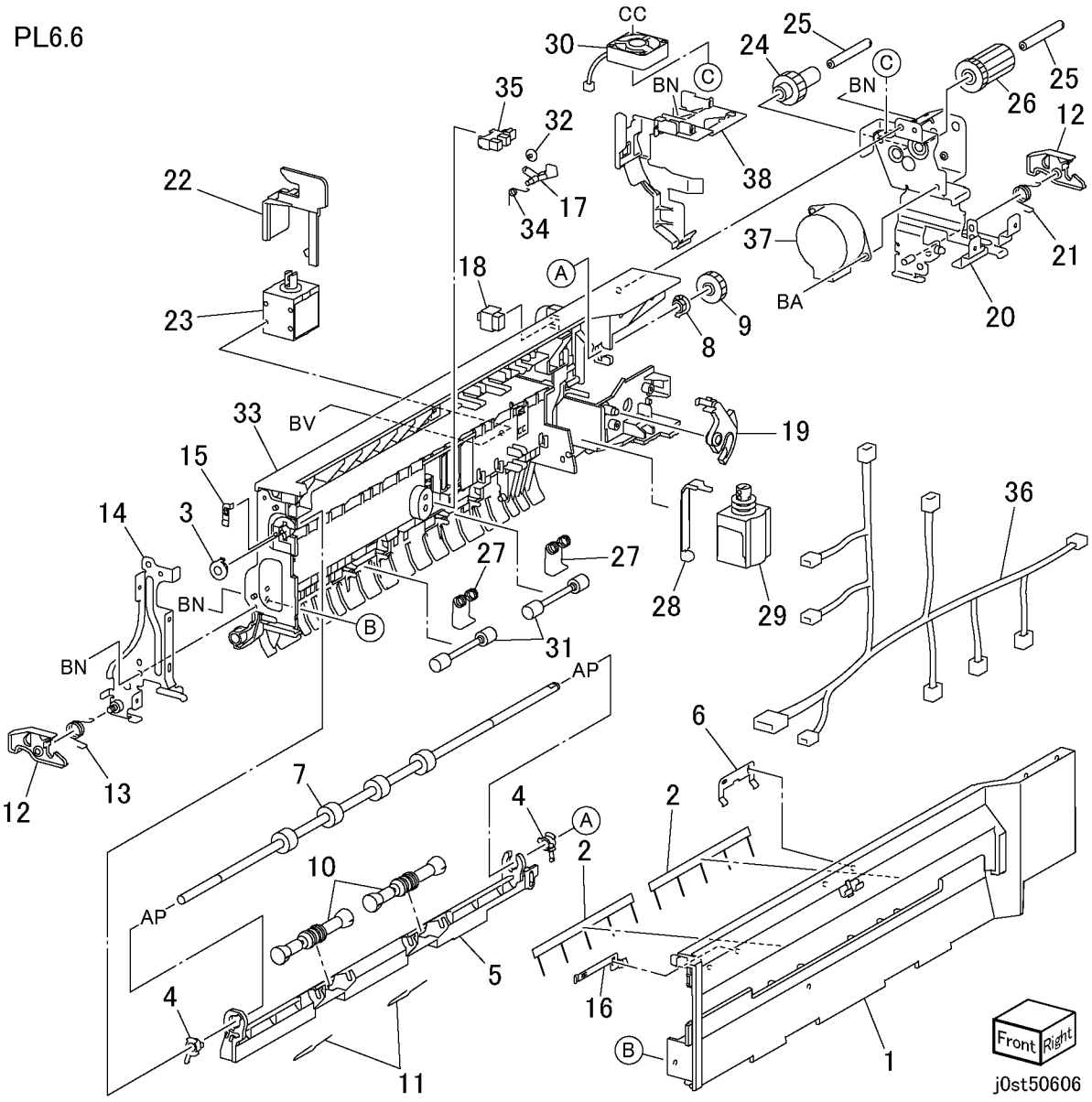
PL 6.5 L/H Upper Chute Assembly

Item	Part	Description
1	–	L/H Upper Chute (P/O PL 6.1 Item 5)
2	003E60160	Latch
3	050E20010	Exit 2 Gate
4	–	Spring (P/O PL 6.1 Item 5)
5	054E24371	Upper FU Chute
6	–	Stopper (P/O PL 6.1 Item 5)
7	–	Gear Cover (P/O PL 6.1 Item 5)
8	–	Gear (52T) (P/O PL 6.1 Item 5)
9	–	Bracket (P/O PL 6.1 Item 5)
10	–	Earth Plate (P/O PL 6.1 Item 5)
11	–	FUP Exit Cover (P/O PL 6.1 Item 5)
12	–	Earth Plate (P/O PL 6.1 Item 5)
13	–	Bracket (P/O PL 6.1 Item 5)
14	–	Link (P/O PL 6.1 Item 5)
15	809E37170	Spring
16	–	Bearing (P/O PL 6.1 Item 5)
17	–	Bearing (P/O PL 6.1 Item 5)
18	–	Gear (19T) (P/O PL 6.1 Item 5)
19	–	Invert Roll Assembly (P/O PL 6.1 Item 5)
20	–	Label (P/O PL 6.1 Item 5)



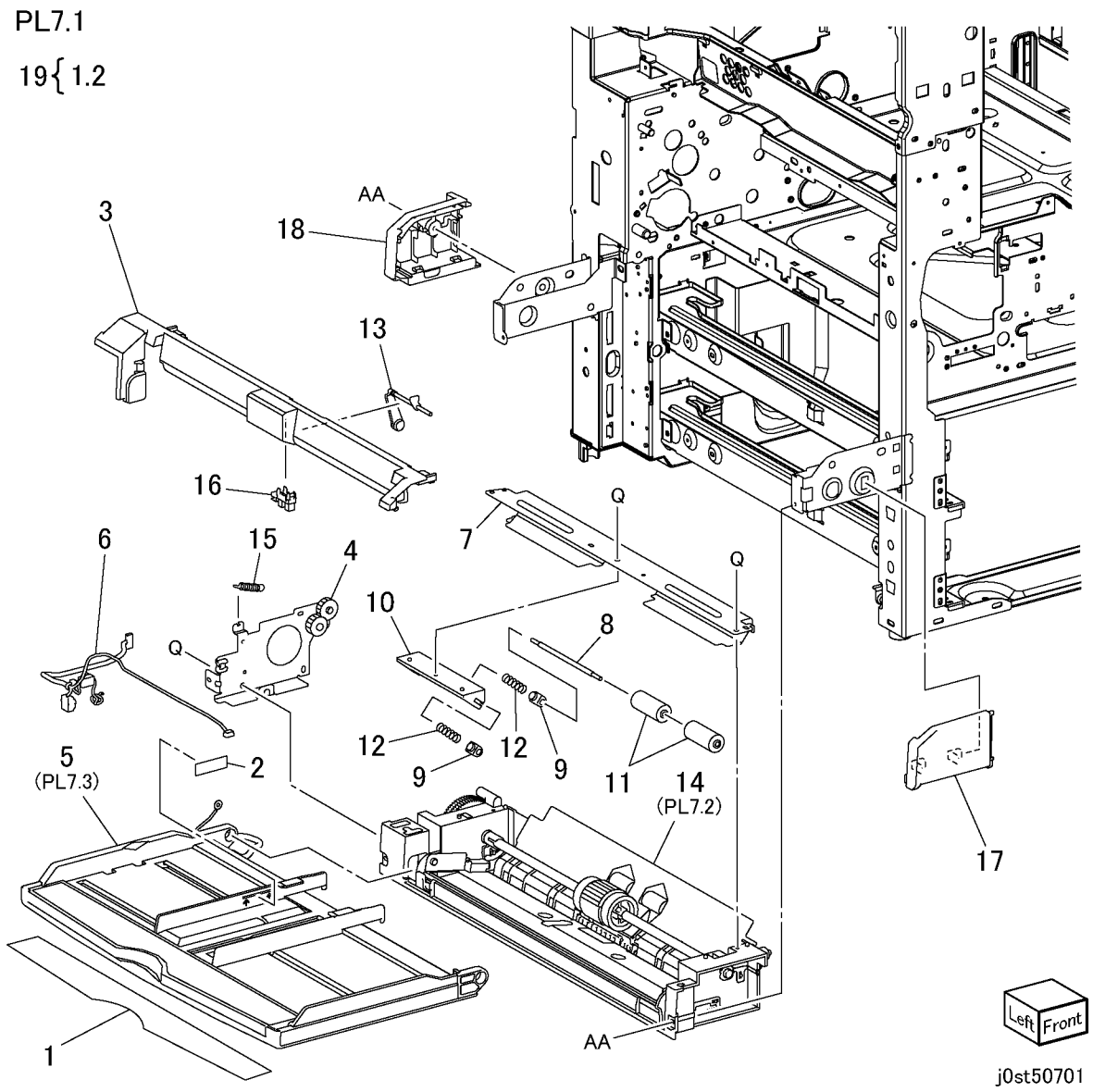
PL 6.6 Tray Guide Assembly

Item	Part	Description
1	–	Tray Guide (P/O PL 6.1 Item 5)
2	105E12940	Eliminator
3	–	Bearing (P/O PL 6.1 Item 5)
4	604K20680	Exit Bear Roll Kit (1Set:2)
5	054E24331	OCT2 Chute
6	–	Earth Plate (P/O PL 6.1 Item 5)
7	059K26760	Exit2 Roll
8	–	Bearing (P/O PL 6.1 Item 5)
9	807E00180	Gear (19T)
10	604K20690	Exit Roller Kit (1Set:2)
11	604K20700	Exit Spring Kit (1Set:2)
12	003E60171	Latch
13	809E50210	Spring
14	–	Front Plate (P/O PL 6.1 Item 5)
15	–	Earth Plate (P/O PL 6.1 Item 5)
16	–	Earth Plate (P/O PL 6.1 Item 5)
17	120E22451	Actuator
18	110E11580	Exit2 Interlock Switch
19	–	Offset Gear (P/O PL 6.1 Item 5)
20	–	Rear Plate (P/O PL 6.1 Item 5)
21	–	Spring (P/O PL 6.1 Item 5)
22	–	Link (P/O PL 6.1 Item 5)
23	121K32370	Face Up Gate Solenoid
24	–	Gear (20T) (P/O PL 6.1 Item 5)
25	–	Shaft (P/O PL 6.1 Item 5)
26	–	Gear (19T/44T) (P/O PL 6.1 Item 5)
27	604K20430	2 Spring 1 Kit (1Set:2)
28	–	Exit Gate Link (P/O PL 6.1 Item 5)
29	121K31810	Exit2 Gate Solenoid
30	–	Exit Fan (P/O PL 6.1 Item 5)
31	604K20400	2 Roller 1 Kit (1Set:2)
32	059E98780	Actuator
33	–	Lower Chute (P/O PL 6.1 Item 5)
34	809E37332	Spring Actuator
35	930W00113	Exit2 Sensor
36	962K18882	Wire Harness
37	127K38261	Exit 2 Motor
38	–	Cover (P/O PL 6.1 Item 5)



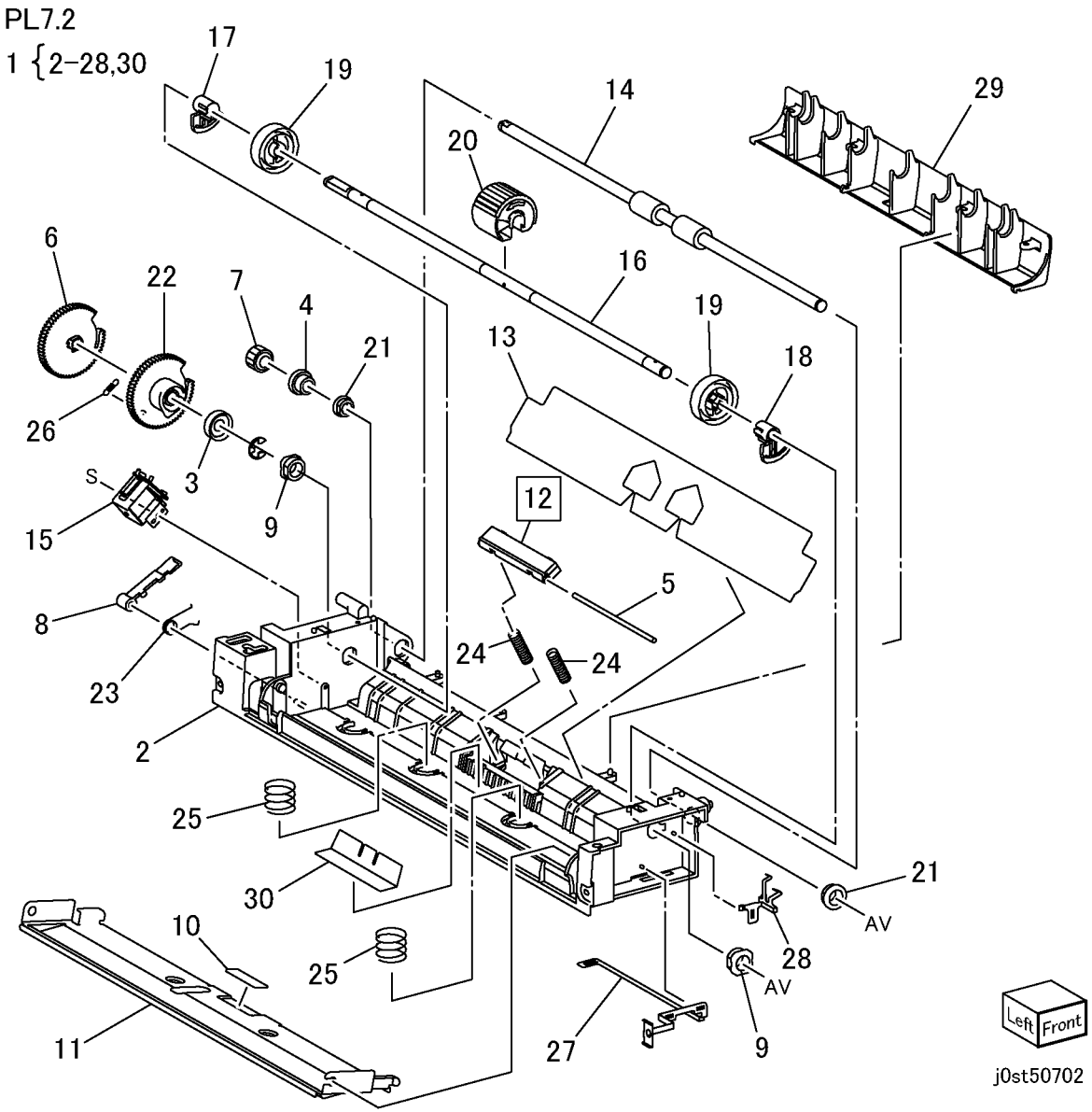
PL 7.1 MPT Assembly

Item	Part	Description
1	–	Label (P/O PL 7.1 Item 19)
2	–	Label (MAX) (P/O PL 7.1 Item 19)
3	–	Upper Frame (Not Spared)
4	–	Bracket Assembly (Not Spared)
5	050K49741	MPT Tray Assembly (PL 7.3)
6	962K13120	Wire Harness
7	–	Chute (Not Spared)
8	–	Shaft (Not Spared)
9	–	Spacer (Not Spared)
10	–	Guide (Not Spared)
11	604K20410	2 Roller 2 Kit (1Set:2)
12	–	Spring (Not Spared)
13	120E22230	Actuator
14	–	Lower Frame Assembly (PL 7.2) (Not Spared)
15	–	Spring (Not Spared)
16	930W00113	MPT No Paper Sensor
17	802E55200	MPT Front Cover
18	802E55211	MPT Rear Cover
19	604K20520	MPT Label Kit



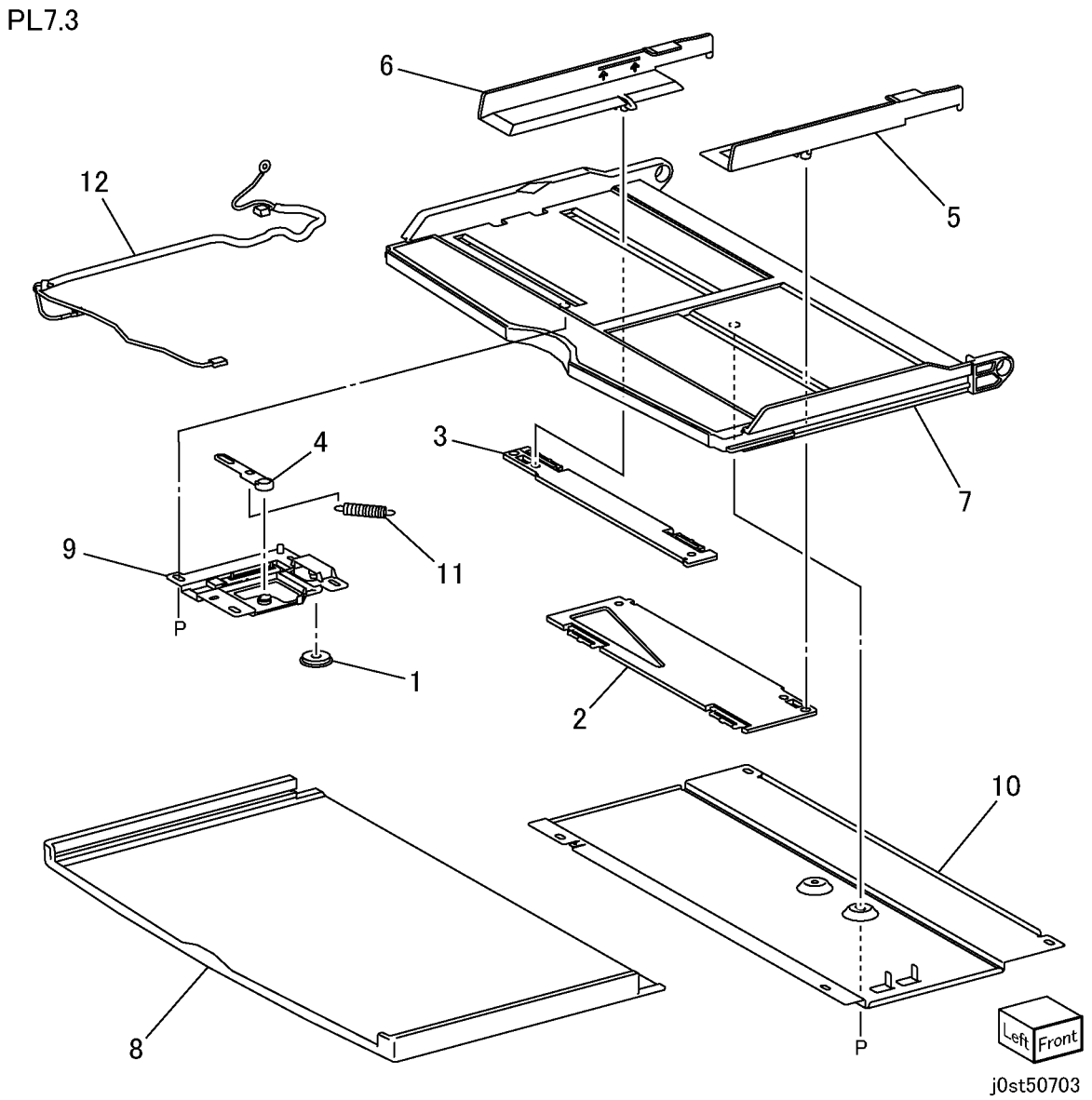
PL 7.2 Lower Frame Assembly

Item	Part	Description
1	801K05760	Lower Frame Assembly
2	–	Lower Frame (P/O PL 7.2 Item 1)
3	–	Stopper Lever (P/O PL 7.2 Item 1)
4	–	Collar (P/O PL 7.2 Item 1)
5	–	Retard Shaft (P/O PL 7.2 Item 1)
6	–	Pick Up Gear (P/O PL 7.2 Item 1)
7	007E79710	Gear (18T)
8	011E15150	Gear Lever
9	–	Bearing (8) (P/O PL 7.2 Item 1)
10	019E56550	Pad
11	–	Bottom Plate (P/O PL 7.2 Item 1)
12	019K98720	MPT Retard Pad (REP 7.2.1)
13	032E21060	Paper Guide
14	059K27140	Drive Roll
15	121E92780	MPT Feed Solenoid
16	–	Shaft (P/O PL 7.2 Item 1)
17	–	Pick Up Cam (Rear) (P/O PL 7.2 Item 1)
18	–	Pick Up Cam (Front) (P/O PL 7.2 Item 1)
19	–	Core (P/O PL 7.2 Item 1)
20	059K27150	Feed Roll (REP 7.2.1)
21	–	Bearing (P/O PL 7.2 Item 1)
22	807E02610	Cam Gear
23	–	Spring (P/O PL 7.2 Item 1)
24	–	Spring (P/O PL 7.2 Item 1)
25	–	Spring (P/O PL 7.2 Item 1)
26	–	Spring (P/O PL 7.2 Item 1)
27	–	Earth Plate (P/O PL 7.2 Item 1)
28	–	Earth Plate (P/O PL 7.2 Item 1)
29	–	Lower Chute (Not Spared)
30	038E31200	Paper Guide



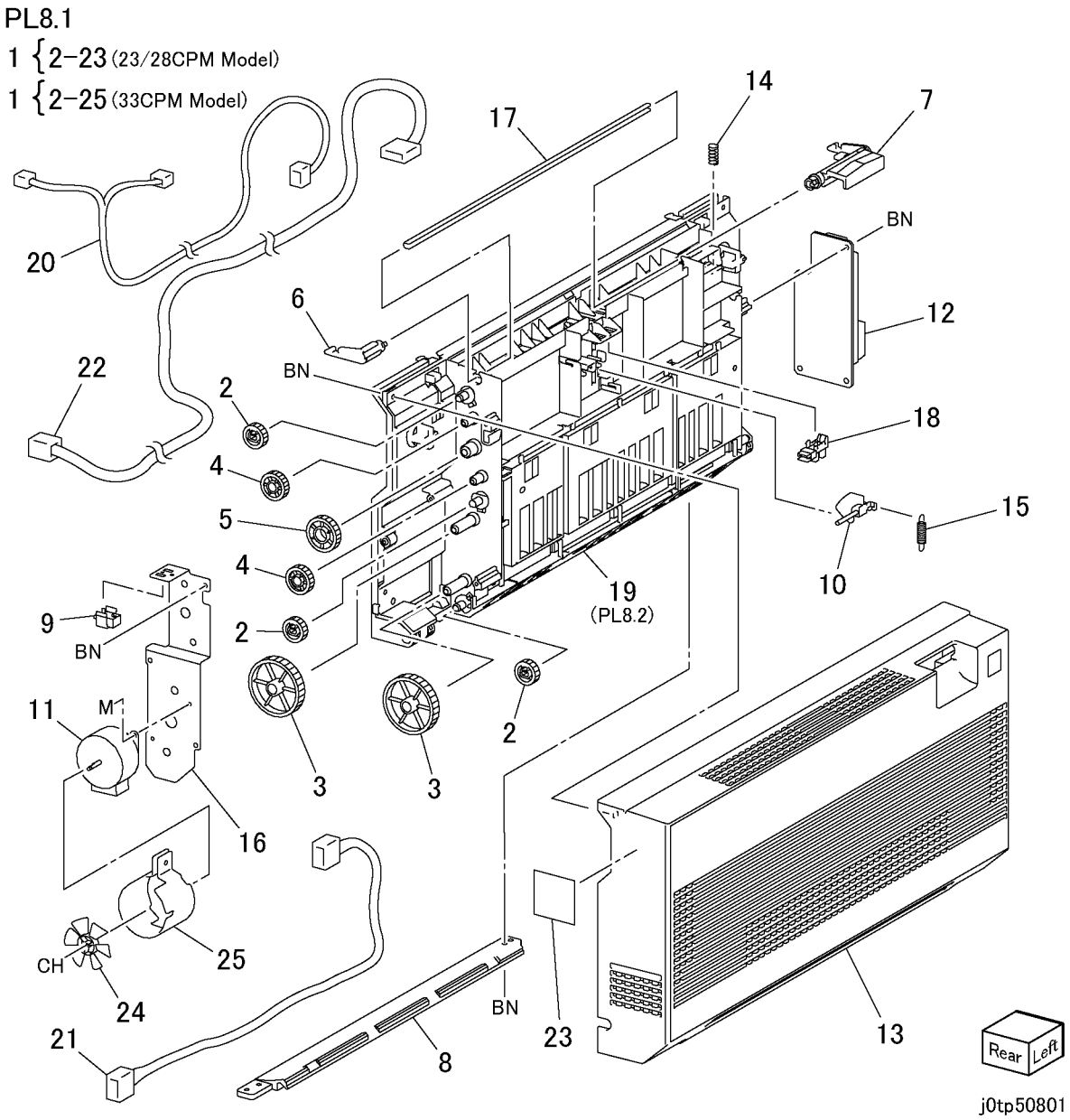
PL 7.3 MPT Tray Assembly

Item	Part	Description
1	–	Pinion Gear (P/O PL 7.1 Item 5)
2	–	Front Rack (P/O PL 7.1 Item 5)
3	–	Rear Pack (P/O PL 7.1 Item 5)
4	–	Link (P/O PL 7.1 Item 5)
5	–	Side Guide (P/O PL 7.1 Item 5)
6	–	Side Guide (P/O PL 7.1 Item 5)
7	–	Tray MPT (P/O PL 7.1 Item 5)
8	–	Tray Exit (P/O PL 7.1 Item 5)
9	–	MPT Paper Size Sensor (P/O PL 7.1 Item 5)
10	–	Cover Tray (P/O PL 7.1 Item 5)
11	–	Spring (P/O PL 7.1 Item 5)
12	–	Wire Harness (P/O PL 7.1 Item 5)



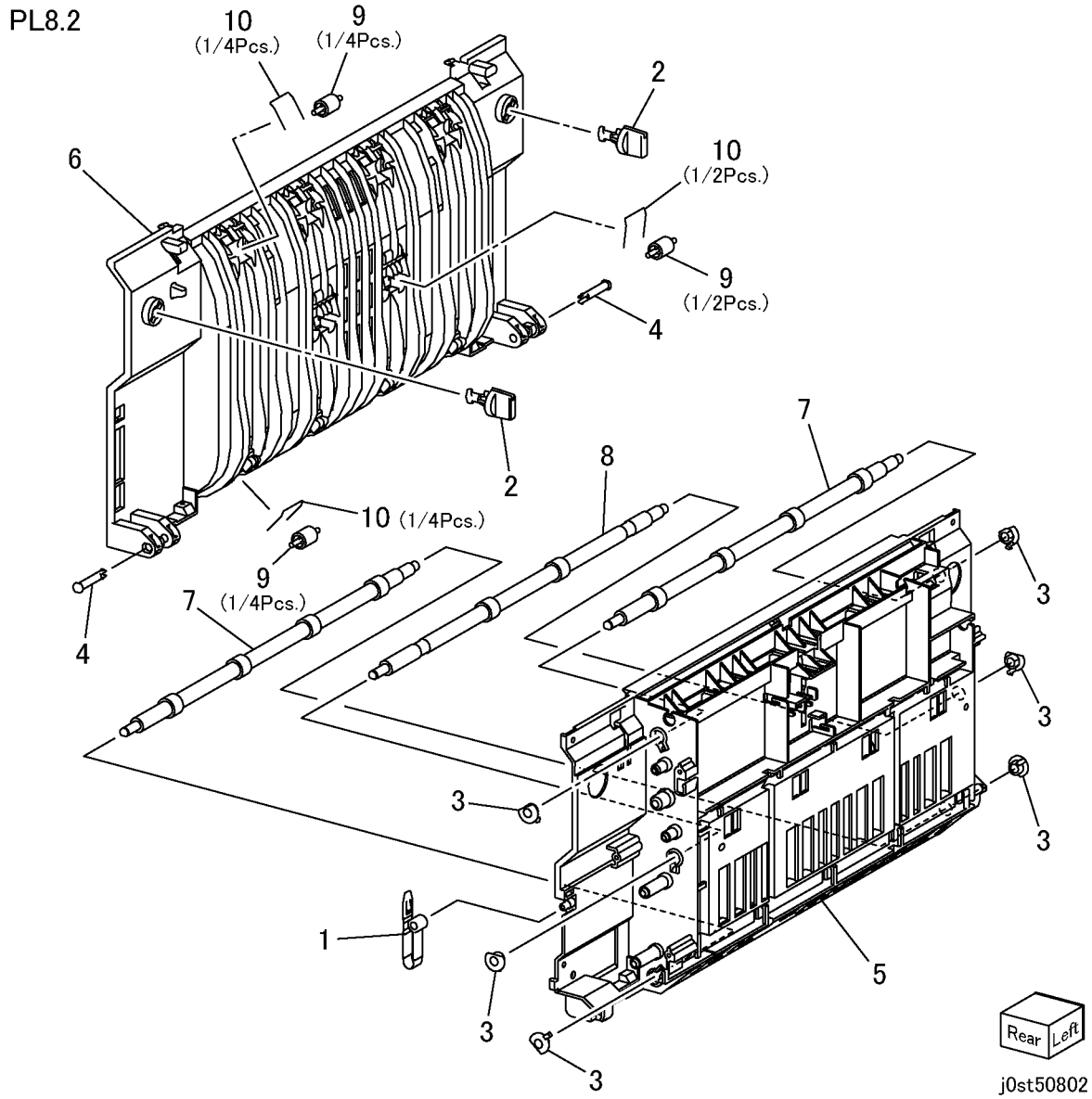
PL 8.1 Duplex Unit

Item	Part	Description
1	059K31572	Duplex Unit (23/28CPM Model)
–	–	Duplex Unit (33CPM Model)
2	–	Gear (28T) (P/O PL 8.1 Item 1)
3	–	Gear (33/37T) (P/O PL 8.1 Item 1)
4	–	Gear (33T) (P/O PL 8.1 Item 1)
5	–	Gear (42T) (P/O PL 8.1 Item 1)
6	011E14581	Latch Lever (Rear)
7	011E14590	Latch Lever (Front)
8	–	Lower Chute (P/O PL 8.1 Item 1)
9	110E11580	Duplex Open Switch
10	120E21261	Actuator
11	127K39480	Duplex Motor
12	160K94225	Duplex PWB
13	802E55170	Cover
14	–	Spring (P/O PL 8.1 Item 1)
15	–	Spring (P/O PL 8.1 Item 1)
16	–	Bracket (P/O PL 8.1 Item 1)
17	–	Latch Plate (P/O PL 8.1 Item 1)
18	930W00113	Duplex Sensor
19	–	Inner Chute Assembly (PL 8.2) (P/O PL 8.1 Item 1)
20	–	Wire Harness (P/O PL 8.1 Item 1)
21	–	Wire Harness (P/O PL 8.1 Item 1)
22	–	Wire Harness (P/O PL 8.1 Item 1)
23	–	Label (P/O PL 8.1 Item 1)
24	127E83681	Fan (33CPM Model)
25	054E26860	Duct (33CPM Model)



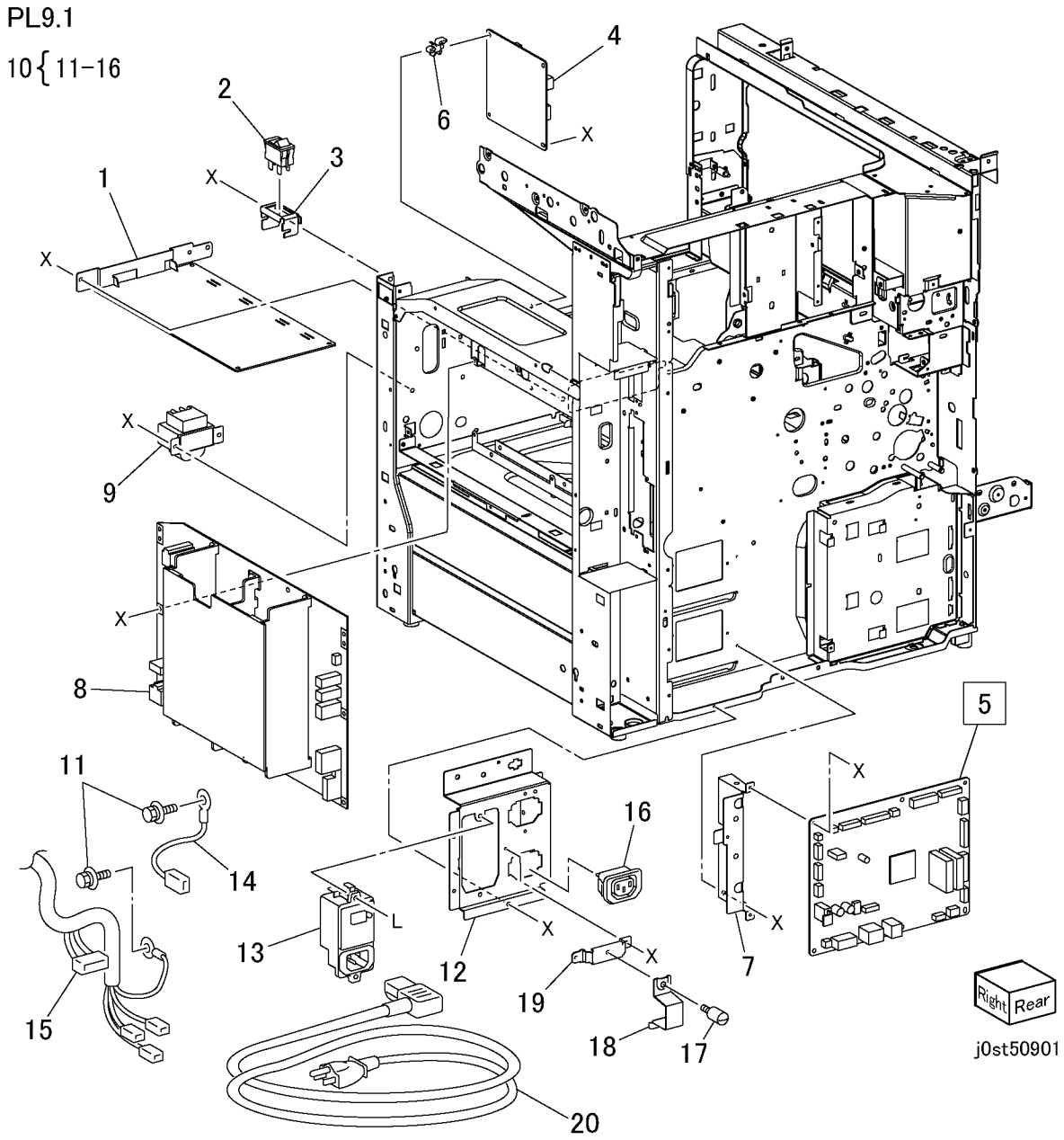
PL 8.2 Inner Chute Assembly

Item	Part	Description
1	–	Stopper (P/O PL 8.1 Item 19)
2	–	Lock (P/O PL 8.1 Item 19)
3	–	Bearing (P/O PL 8.1 Item 19)
4	–	Pin (P/O PL 8.1 Item 19)
5	–	Outer Chute (P/O PL 8.1 Item 19)
6	–	Inner Chute (P/O PL 8.1 Item 19)
7	–	Duplex Roller (P/O PL 8.1 Item 19)
8	–	Duplex Roller Assembly (P/O PL 8.1 Item 19)
9	604K20460	4 Roller 1 Kit (1Set:4)
10	604K20470	4 Spring 1 Kit (1Set 4)



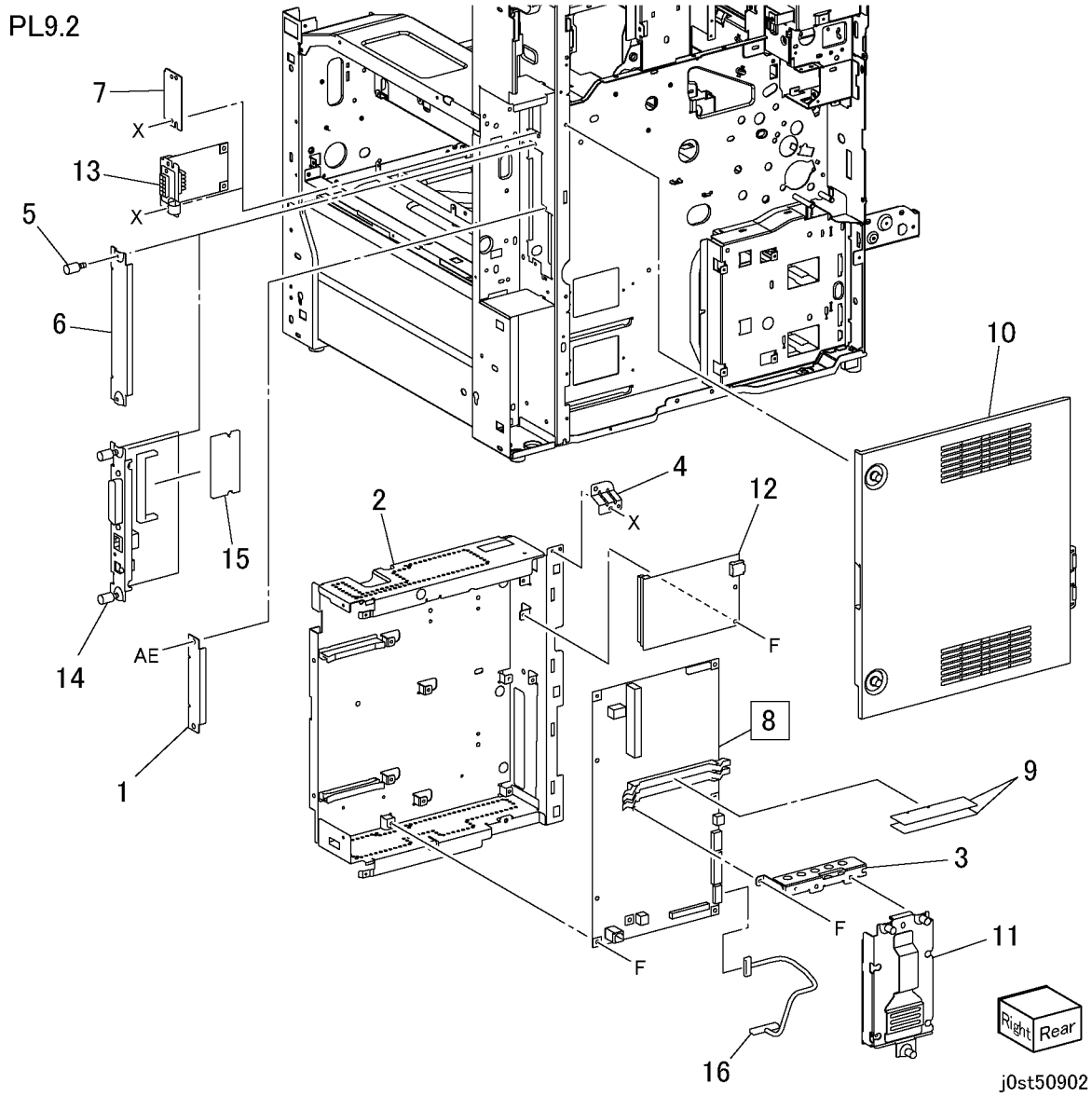
PL 9.1 Electrical

Item	Part	Description
1	–	HVPS-Y1
2	110E11230	Main Switch
3	–	Bracket (Not Spared)
4	160K94211	Exit PWB
5	160K94205	MCU PWB (23/28CPM Model)(REP 9.1.1)
–	960K09910	MCU PWB (33CPM Model)(REP 9.1.1)
6	–	PWB Support (Not Spared)
7	–	Bracket (Not Spared)
8	105E11370	Power Unit-B1 (110/127V)
–	105E11380	Power Unit-B1H (220/240V)
9	104E94080	Choke Coil (220/240V)
10	101K45360	Chassis Assembly AC XC (23/28CPM Model)
–	101K51660	Chassis Assembly AC XC (33CPM Model)
11	–	Screw (P/O PL 9.1 Item 10)
12	–	Bracket (P/O PL 9.1 Item 10)
13	908W01201	GFI Breaker
14	962K18690	Wire Harness
15	–	Wire Harness (P/O PL 9.1 Item 10)
16	–	Outlet (P/O PL 9.1 Item 10)
17	–	Screw (Not Spared)
18	–	Holder (Not Spared)
19	–	Bracket (Not Spared)
20	117E22550	110V Power Cord (US/Canada/etc)
–	117E22550	110V Power Cord (DMO-W)
–	117E10550	220V Power Cord (DMO-W)
–	152S06001	220V Power Cord (UK)
–	152S06000	220V Power Cord (Europe Generic)
–	152S06003	220V Power Cord (Switzer land)
–	152S06002	220V Power Cord (Denmark)



PL 9.2 ESS

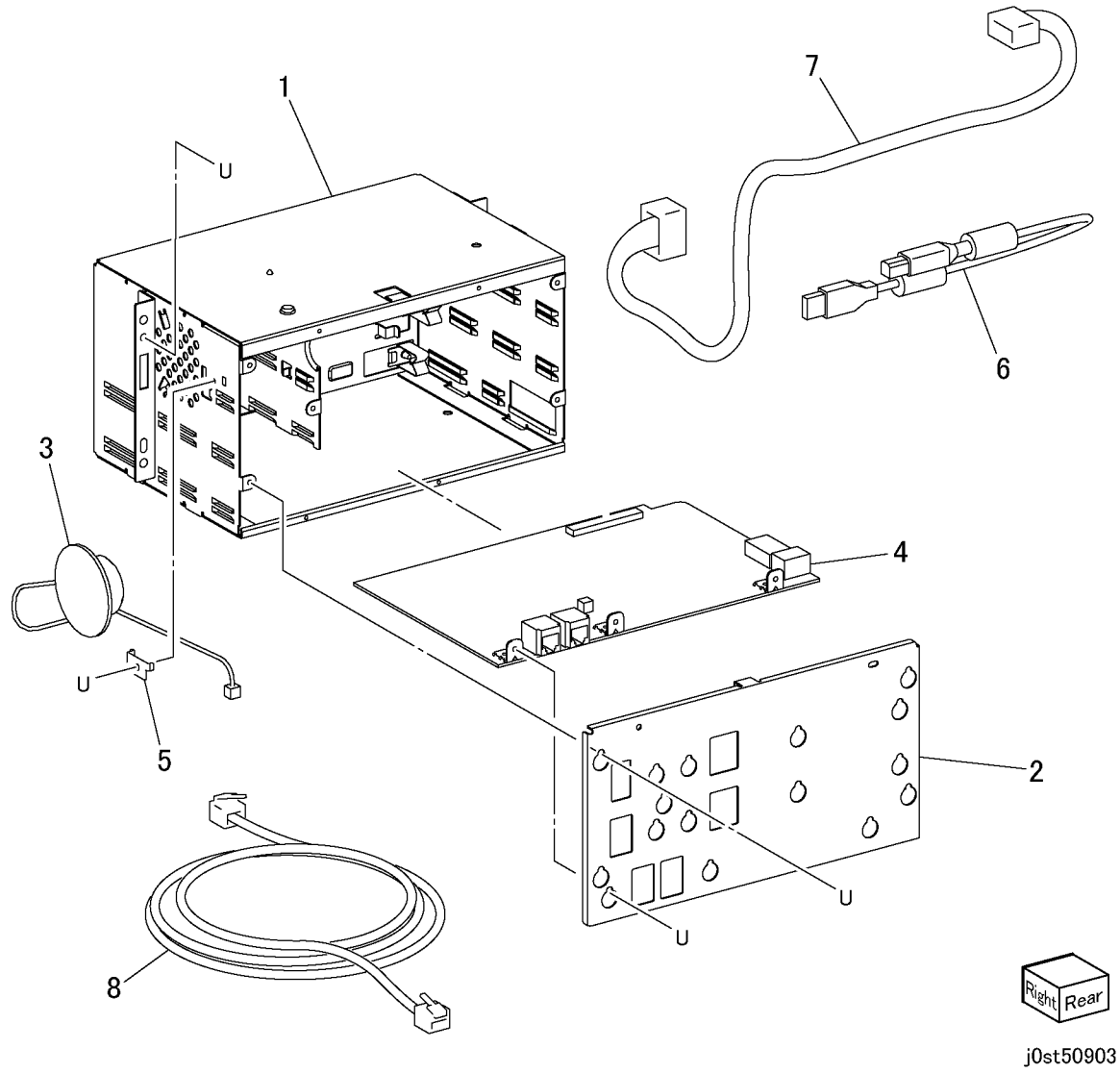
Item	Part	Description
1	–	Panel (Not Spared)
2	–	ESS Chassis Assembly (Not Spared)
3	–	Bracket (Not Spared)
4	–	Bracket (Not Spared)
5	–	Screw (Not Spared)
6	–	Panel (Not Spared)
7	–	Panel (Not Spared)
8	160K91660	ESS PWB (With Item9) (23/28CPM Model)(REP 9.1.1)
–	960K15700	ESS PWB (With Item9) (33CPM Model)(REP 9.1.1)
9	133K23830	DDR DIMM (128MB)
–	–	DDR DIMM (256MB) (Option) (Not Spared)
10	–	ESS Cover Assembly (Not Spared)
11	960K01120	HDD (20GB)
12	160K94250	FMO PWB (FAX)
13	101K46110	Accessory IF PWB (Option)
14	101K46070	Printer PWB
15	537K68270	PS DIMM (Option)
16	–	Wire Harness (Not Spared)



PL 9.3 FAX Unit

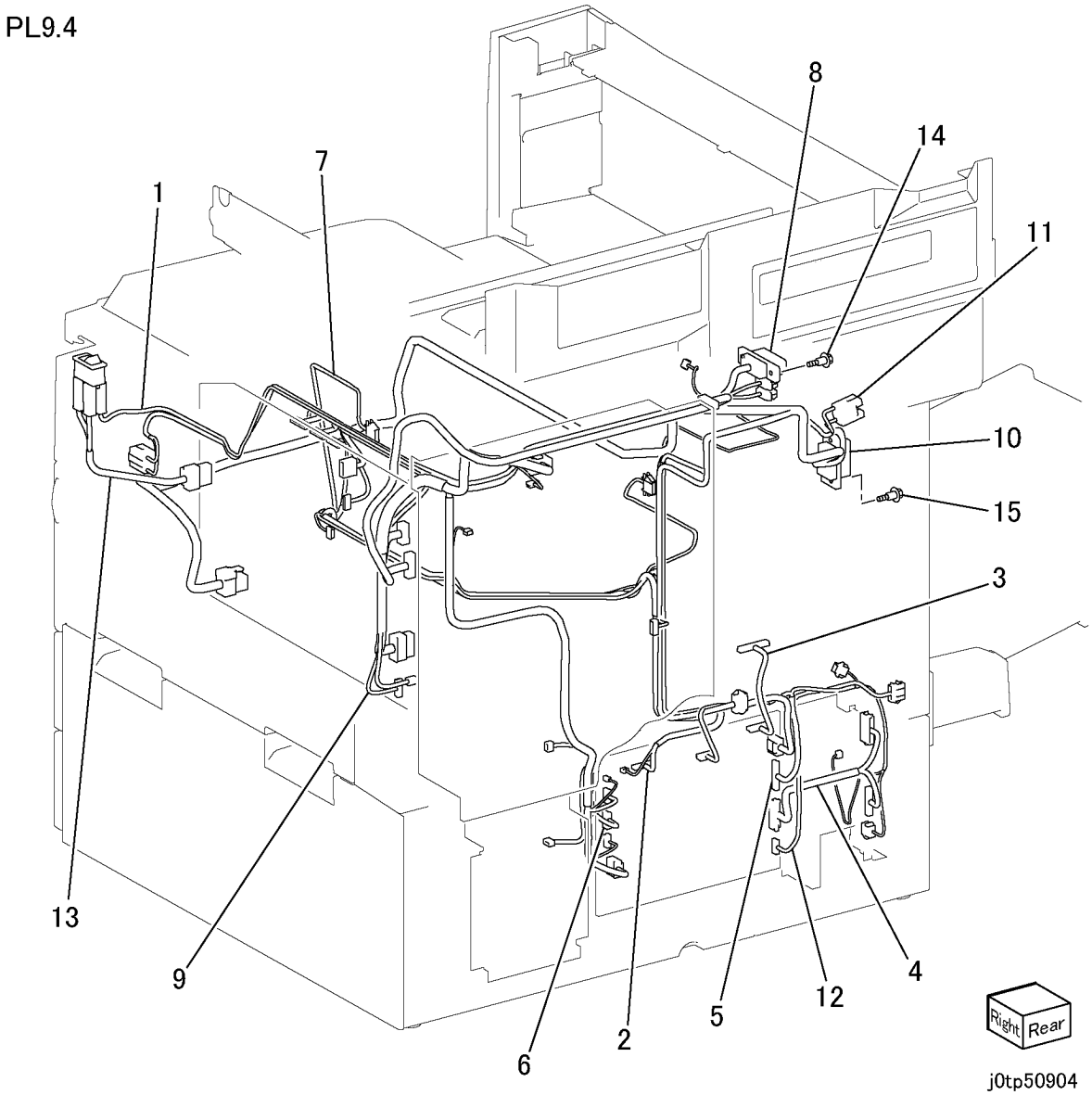
Item	Part	Description
1	–	FAX Box Assembly (Not Spared)
2	–	Panel (Not Spared)
3	–	Speaker (Not Spared)
4	160K95903	FCB PWB (XC)
–	160K97643	FCB XE PWB (EU)
–	960K00333	FCB PWB (ARZ)
5	–	Bracket (Not Spared)
6	117K35790	USB Cable (Alternate)
–	117K36490	USB Cable (Alternate)
–	117K36500	USB Cable (Alternate)
7	117K35800	Wire Harness
8	–	Data Cable (Not Spared)

PL9.3



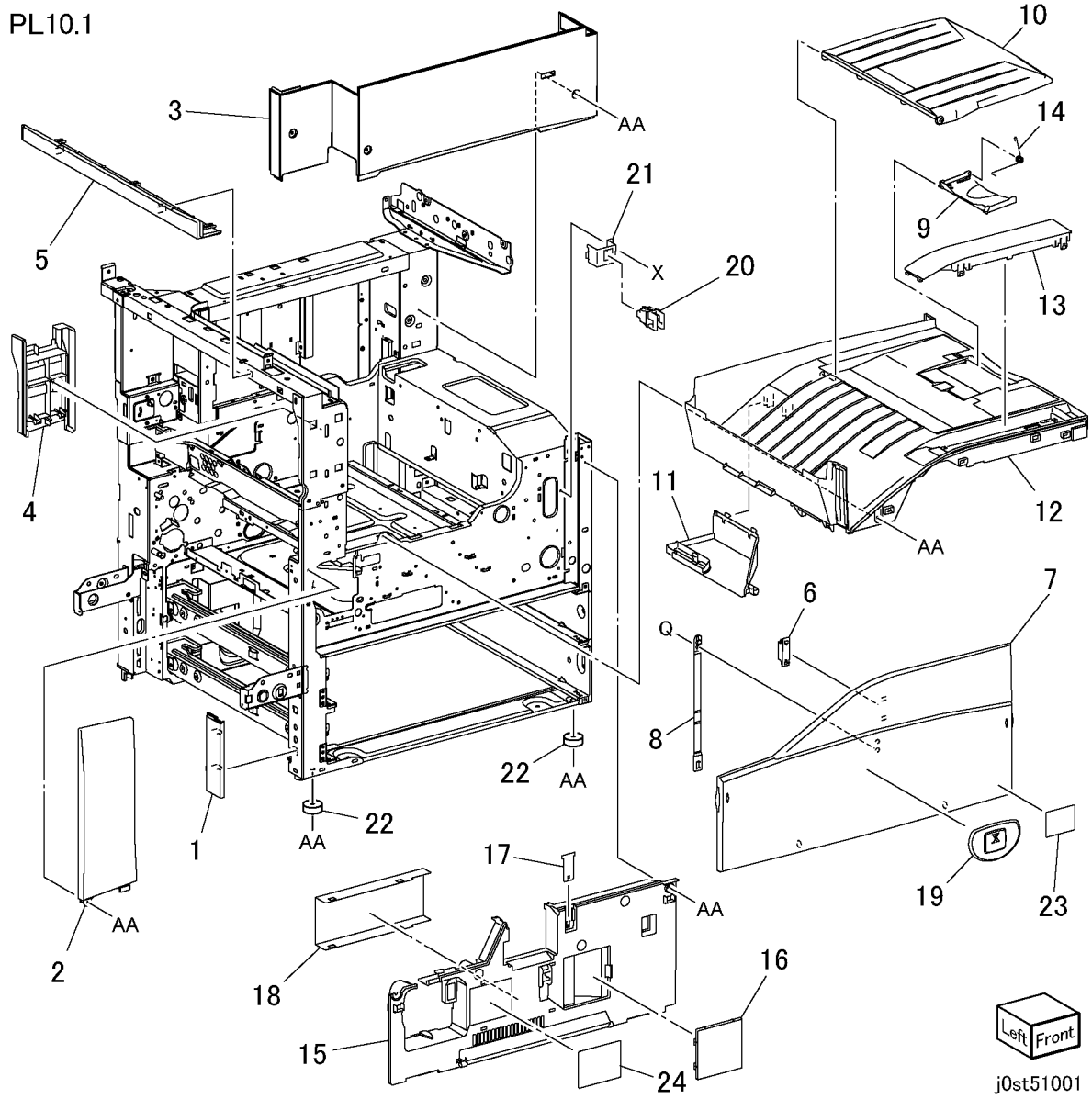
PL 9.4 Wire Harness

Item	Part	Description
1	962K13510	Wire Harness Switch 2
2	962K13080	Wire Harness ROS
3	962K13090	Wire Harness Drive
4	962K13100	Wire Harness Feeder(23/28CPM Model)
–	962K13240	Wire Harness Feeder(33CPM Model)
5	962K13111	Wire Harness PH(23/28CPM Model)
–	962K32120	Wire Harness PH(33CPM Model)
6	962K13140	Wire Harness Size
7	962K13200	Wire Harness Crum
8	962K13211	Wire Harness Exit
9	962K13250	Wire Harness LVPS Power(23/28CPM Model)
–	962K32130	Wire Harness LVPS Power(33CPM Model)
10	962K13301	Wire Harness Fuser AC
11	962K19220	Wire Harness Interlock
12	962K23600	Wire Harness MPT
13	962K13500	Wire Harness Switch 1
14	–	Shoulder Screw (Not Spared)
15	–	Shoulder Screw (Not Spared)



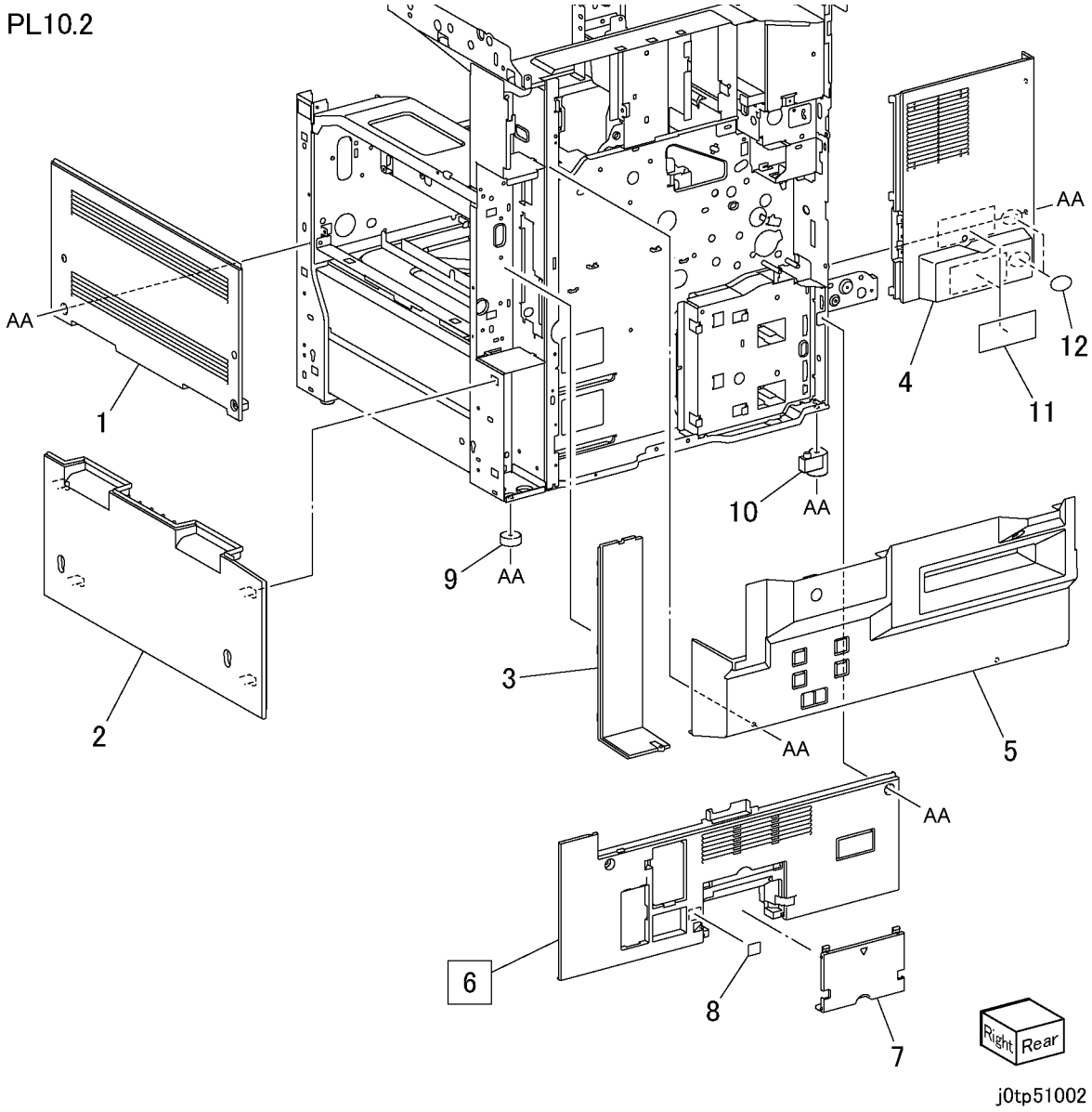
PL 10.1 Cover-Front, Left

Item	Part	Description
1	802E55221	Left Front Cover
2	802E55391	Front Left Cover
3	–	Top Rear Cover (Not Spared)
4	802E55430	Exit Cover
5	–	Left Cover (Not Spared)
6	–	Magnet (Not Spared)
7	802E55341	Front Cover
8	–	Strip (Not Spared)
9	–	Stopper (Not Spared)
10	–	ADD Tray (Not Spared)
11	–	Duct (Not Spared)
12	802E55191	Top Cover
13	–	Panel Cover (Not Spared)
14	–	Spring (Not Spared)
15	802E55311	Inner Cover
16	–	Cap (Not Spared)
17	–	Plate (Not Spared)
18	–	Sheete Guide (Not Spared)
19	802K62050	Logo Label
20	110E94770	Front Cover Interlock Switch
21	–	Bracket (Not Spared)
22	–	Foot (Not Spared)
23	–	E-Star Label (Not Spared)
24	892E99040	XERO/Developer Cartridge Label



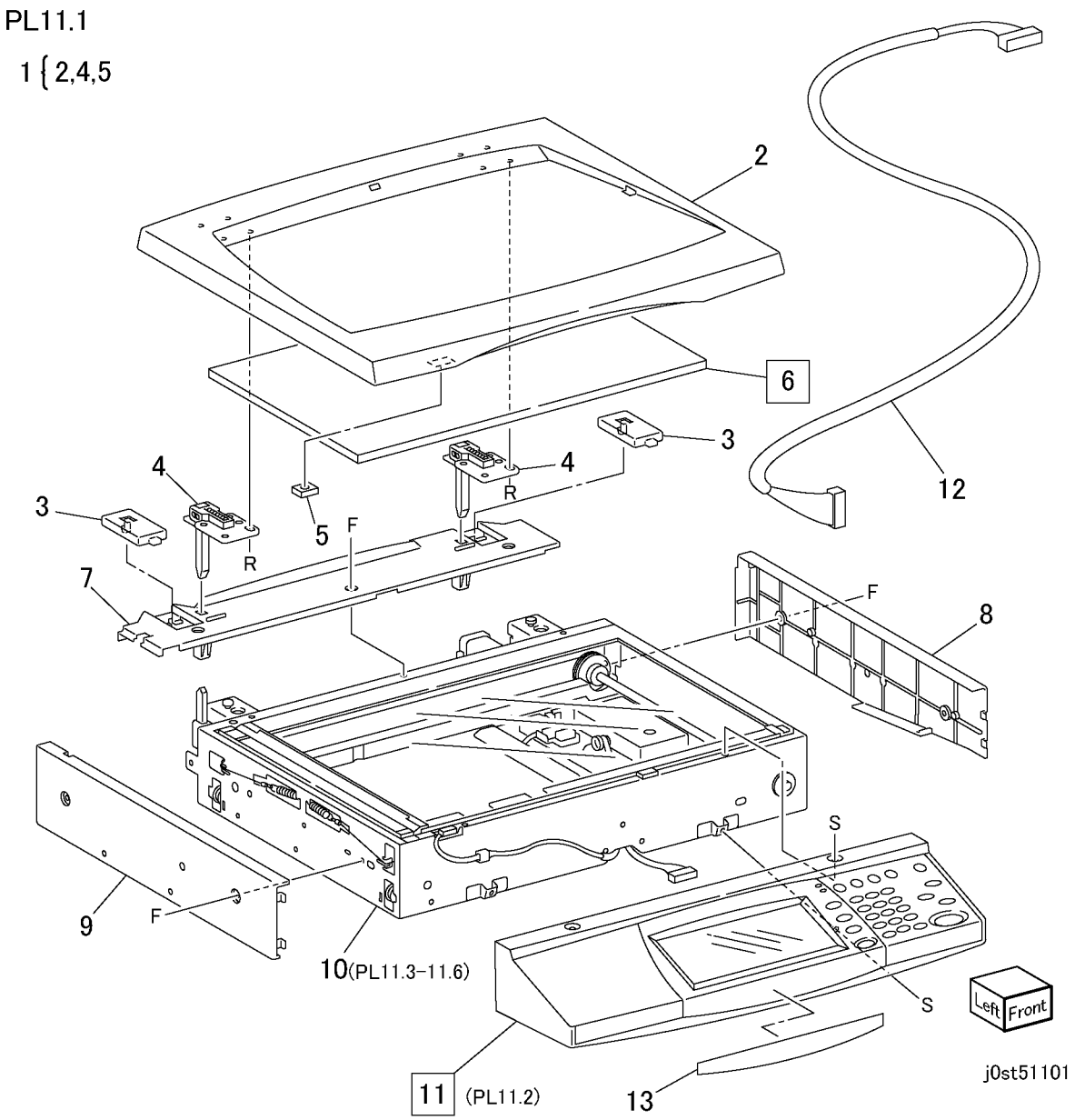
PL 10.2 Cover-Rear, Right

Item	Part	Description
1	802E55230	Right Upper Cover
2	802E55241	Right Lower Cover
3	–	ESS Right Cover (Not Spared)
4	802E75270	Rear Middle Cover (23/28CPM Model)
–	802E55231	Rear Middle Cover (33CPM Model)
5	802E55411	Rear Upper Cover
6	802E55281	Rear Lower Cover (REP 10.2.1)
7	–	Cover (Not Spared)
8	–	Label (Not Spared)
9	–	Foot (Not Spared)
10	–	Foot (Not Spared)
11	–	Data Plate (Not Spared)
12	–	Label(220V) (Not Spared)



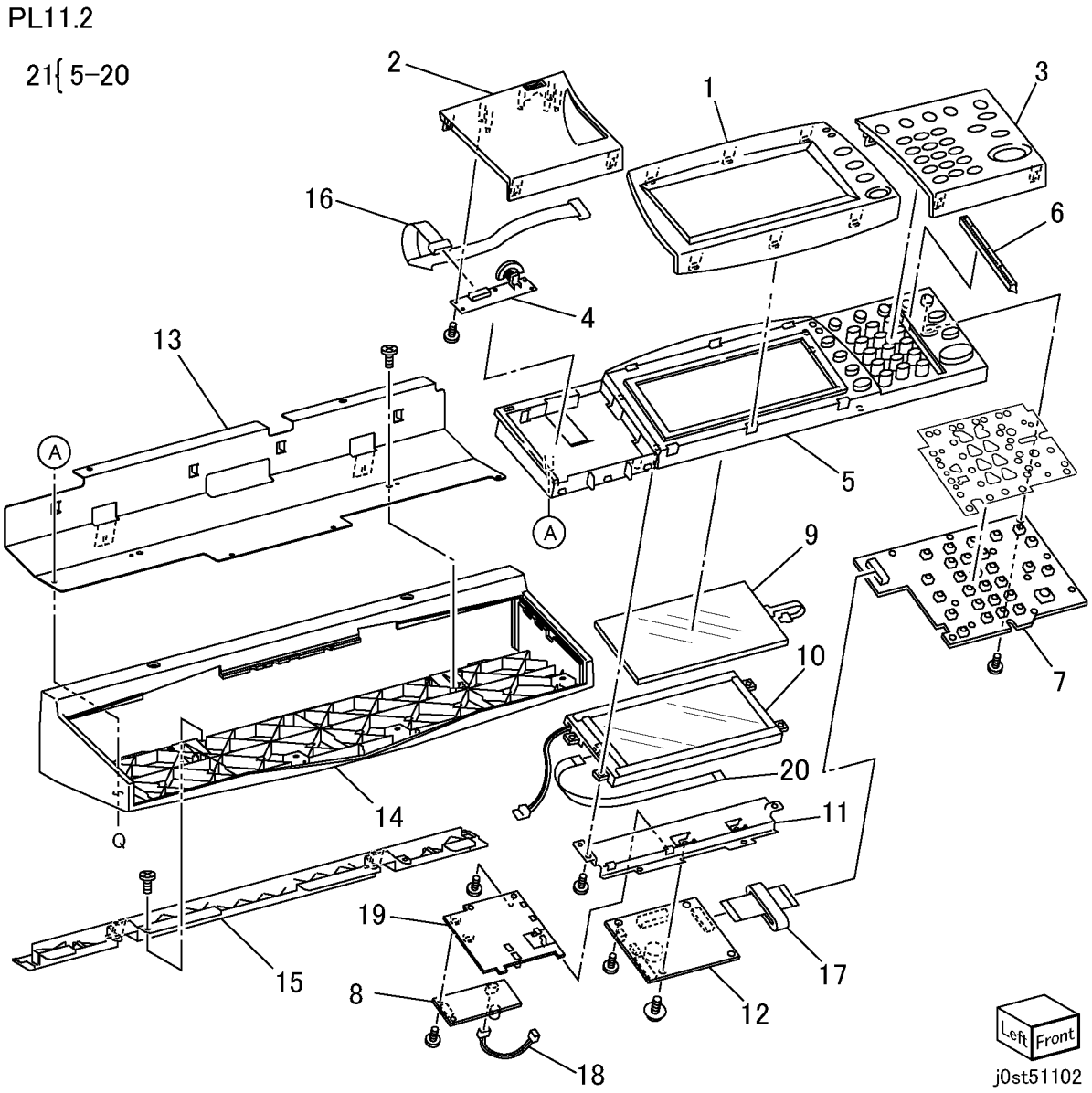
PL 11.1 Platen/Cover

Item	Part	Description
1	802K55690	Platen Cover Assembly
2	802K59200	Platen Cover (With Item5)
3	–	Hinge Cover (Not Spared)
4	–	Hinge (P/O PL 11.1 Item 1)
5	–	Magnet (P/O PL 11.1 Item 1)
6	004E13450	Platen Cushion (REP 11.1.1)
7	802E54560	Top Cover
8	802E54551	Right Cover
9	802E54541	Left Cover
10	062K15572	Frame Assembly (PL 11.3,PL 11.4,PL 11.5,PL 11.6)
11	086S16209	Control Panel Assembly (PL 11.2) (REP 11.1.2)
12	–	UI Cable (Not Spared)
13	893E04480	Name Plate Copy Centre C123
–	893E04500	Name Plate Copy Centre C128
–	893E04490	Name Plate Work Centre M123
–	893E04510	Name Plate Work Centre M128
–	–	Name Plate Work Centre Pro123 (Not Spared)
–	–	Name Plate Work Centre Pro128 (Not Spared)
–	–	Name Plate Copy Centre 133 (Not Spared)
–	–	Name Plate Work Centre 133 (Not Spared)
–	–	Name Plate Work Centre Pro 133 (Not Spared)



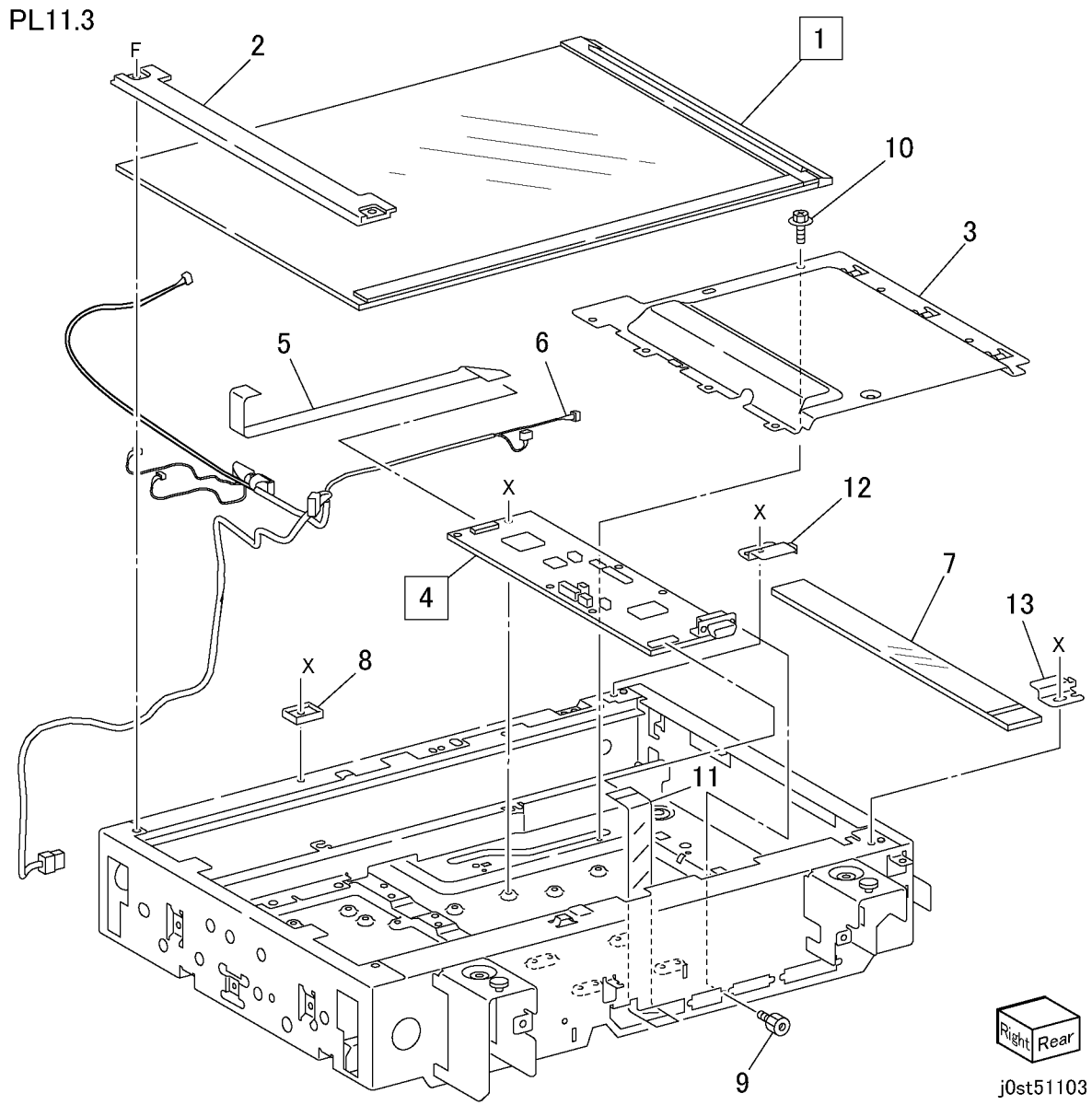
PL 11.2 Control Panel

Item	Part	Description
1	802E55521	Panel (Center)
2	802K60061	Panel (Left) (with Item4)
3	802E55532	Panel (Right)
4	–	Contrast PWB (P/O PL 11.2 Item 2)
5	–	Panel Housing (P/O PL 11.2 Item 21)
6	–	Adjust Pen (P/O PL 11.2 Item 21)
7	–	Control Panel PWB (P/O PL 11.2 Item 21)
8	160K91630	Inverter PWB
9	110K11610	Touch Panel
10	123K94950	Display Assembly
11	–	Bracket (P/O PL 11.2 Item 21)
12	960K02441	UI PWB
13	–	UI Base Frame (P/O PL 11.2 Item 21)
14	802E55550	UI Top Cover
15	–	UI Lower Cover (P/O PL 11.2 Item 21)
16	–	Wire Harness (P/O PL 11.2 Item 21)
17	–	Wire Harness (P/O PL 11.2 Item 21)
18	–	Wire Harness (P/O PL 11.2 Item 21)
19	–	Support (P/O PL 11.2 Item 21)
20	–	Wire Harness (P/O PL 11.2 Item 21)
21	802K64711	Control Panel (P/O PL 11.2 Item 21)



PL 11.3 Platen Glass

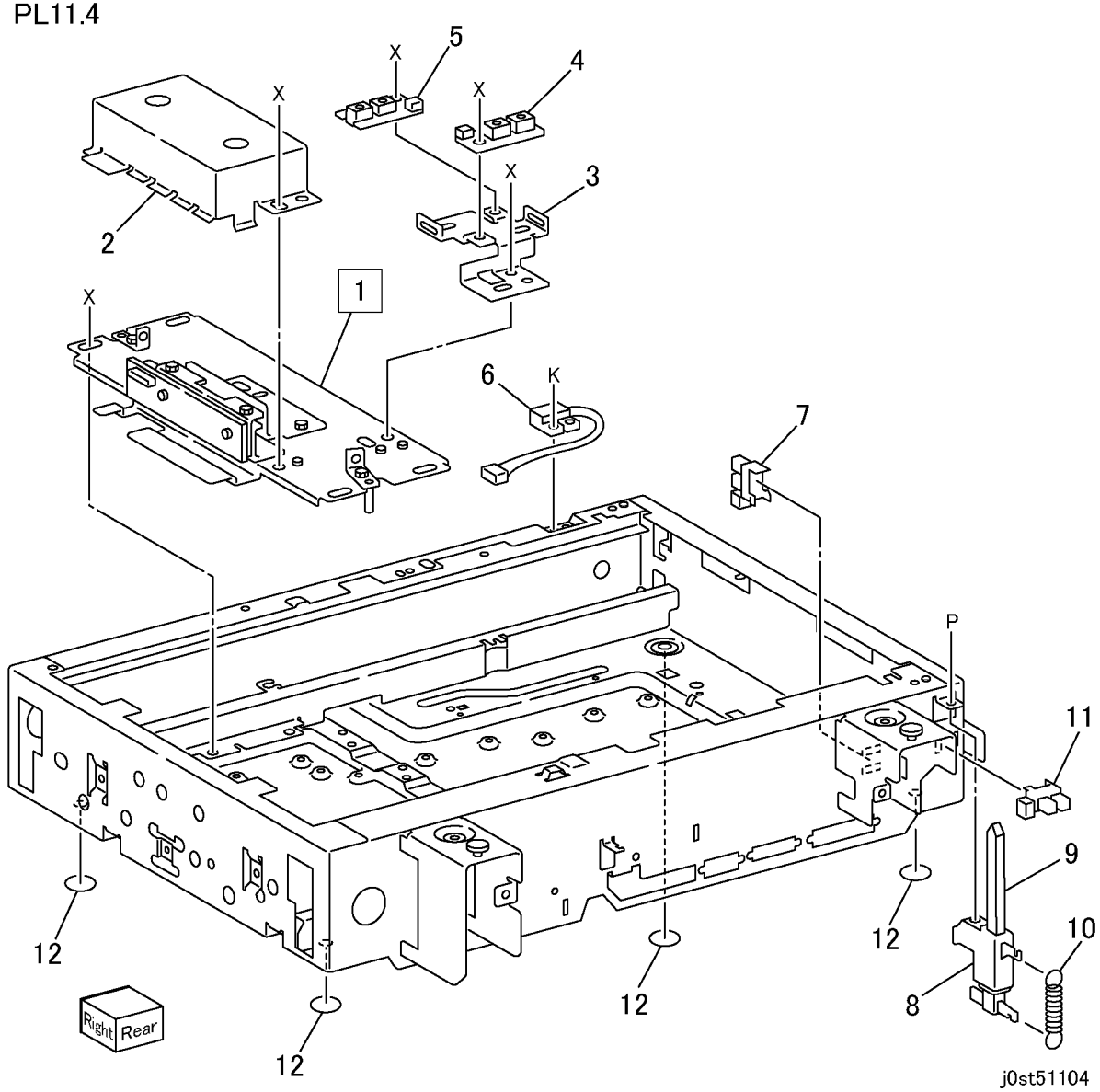
Item	Part	Description
1	090K02331	Platen Glass (REP 11.3.1)
2	815E04811	Right Side Plate
3	–	IPS Cover (P/O PL 11.1 Item 10)
4	160K99811	IIT/IPS PWB (REP 11.3.2)
5	117E21630	CCD Flat Cable
6	–	Wire Harness (P/O PL 11.1 Item 10)
7	090K93011	Left Side Plate
8	–	Platen Glass Plate (P/O PL 11.1 Item 10)
9	–	Lock Screw (P/O PL 11.1 Item 10)
10	–	Screw (Not Spared)
11	–	ESS Flat Cable (Not Spared)
12	–	Support Glass (P/O PL 11.1 Item 10)
13	–	Support Glass (P/O PL 11.1 Item 10)



PL 11.4 CCD PWB, Sensor

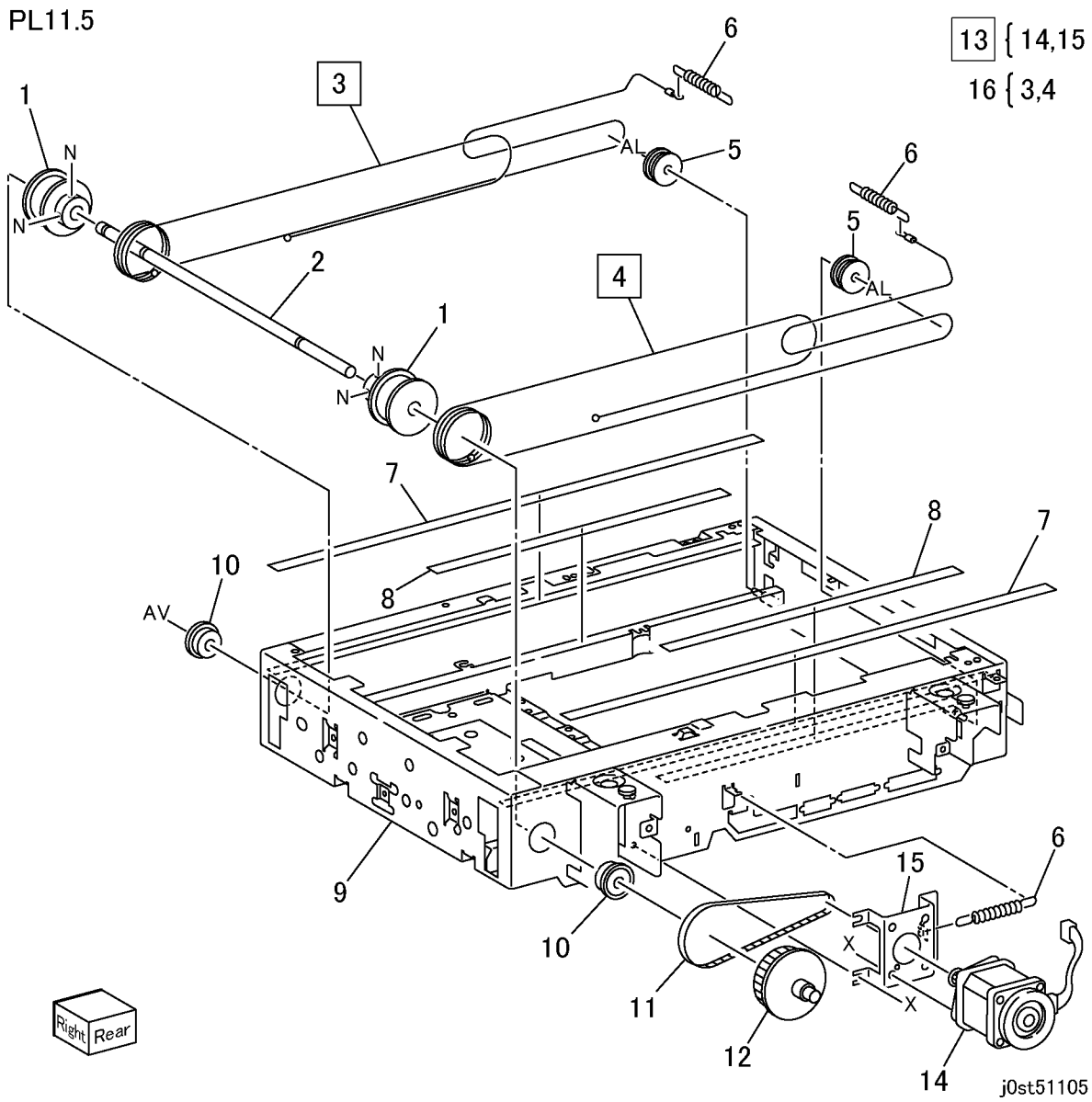
Item	Part	Description
1	062K14502	Lens Kit Assembly (REP 11.4.1)
2	–	Lens Cover (P/O PL 11.1 Item 10)
3	–	Bracket (P/O PL 11.1 Item 10)
4	130K64150	APS Sensor
5	130K64150	APS Sensor
6	110K11960	Platen Open Switch
7	130E85970	IIT Registration Sensor
8	–	Support (P/O PL 11.1 Item 10)
9	120E22030	Actuator
10	–	Spring (P/O PL 11.1 Item 10)
11	130E85970	Platen Angle Sensor
12	–	Seal (P/O PL 11.1 Item 10)

PL11.4



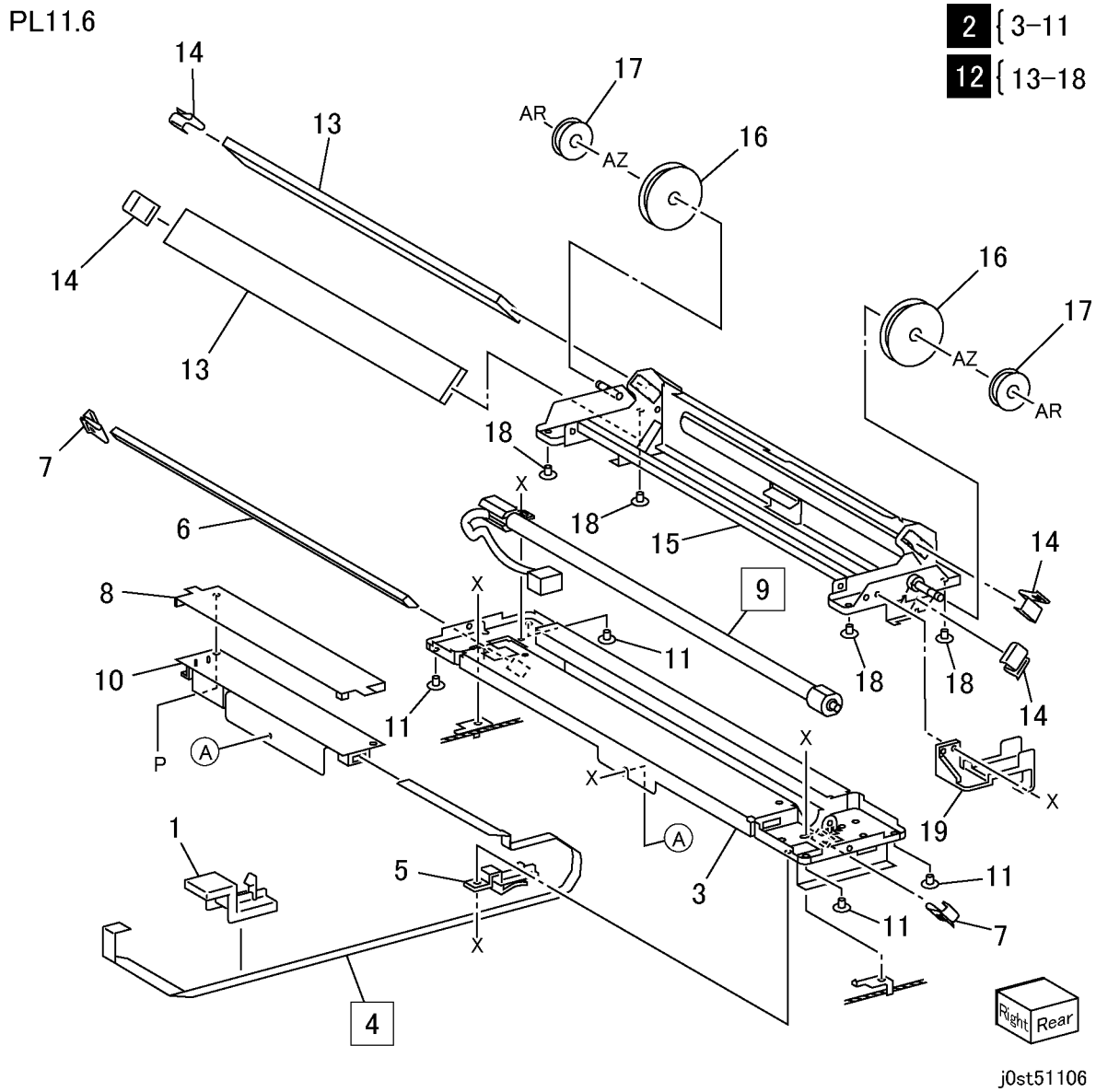
PL 11.5 Carriage Cable/Motor

Item	Part	Description
1	–	Capstan Pulley (P/O PL 11.1 Item 10)
2	–	Capstan Shaft (P/O PL 11.1 Item 10)
3	–	Front Carriage Cable (REP 11.5.1) (P/O PL 11.5 Item 16)
4	–	Rear Carriage Cable (REP 11.5.1) (P/O PL 11.5 Item 16)
5	020E37030	Pulley
6	604K20440	Spring Kit
7	–	Tape (P/O PL 11.1 Item 10)
8	–	Tape (P/O PL 11.1 Item 10)
9	–	Frame (P/O PL 11.1 Item 10)
10	–	Bearing (P/O PL 11.1 Item 10)
11	023E21210	Belt
12	–	Timing Pulley (P/O PL 11.1 Item 10)
13	127K38190	Carriage Motor Assembly (Item14.15) (REP 11.5.2)
14	–	Carriage Motor (P/O PL 11.5 Item 13)
15	–	Bracket (P/O PL 11.5 Item 13)
16	604K20510	Cable Kit



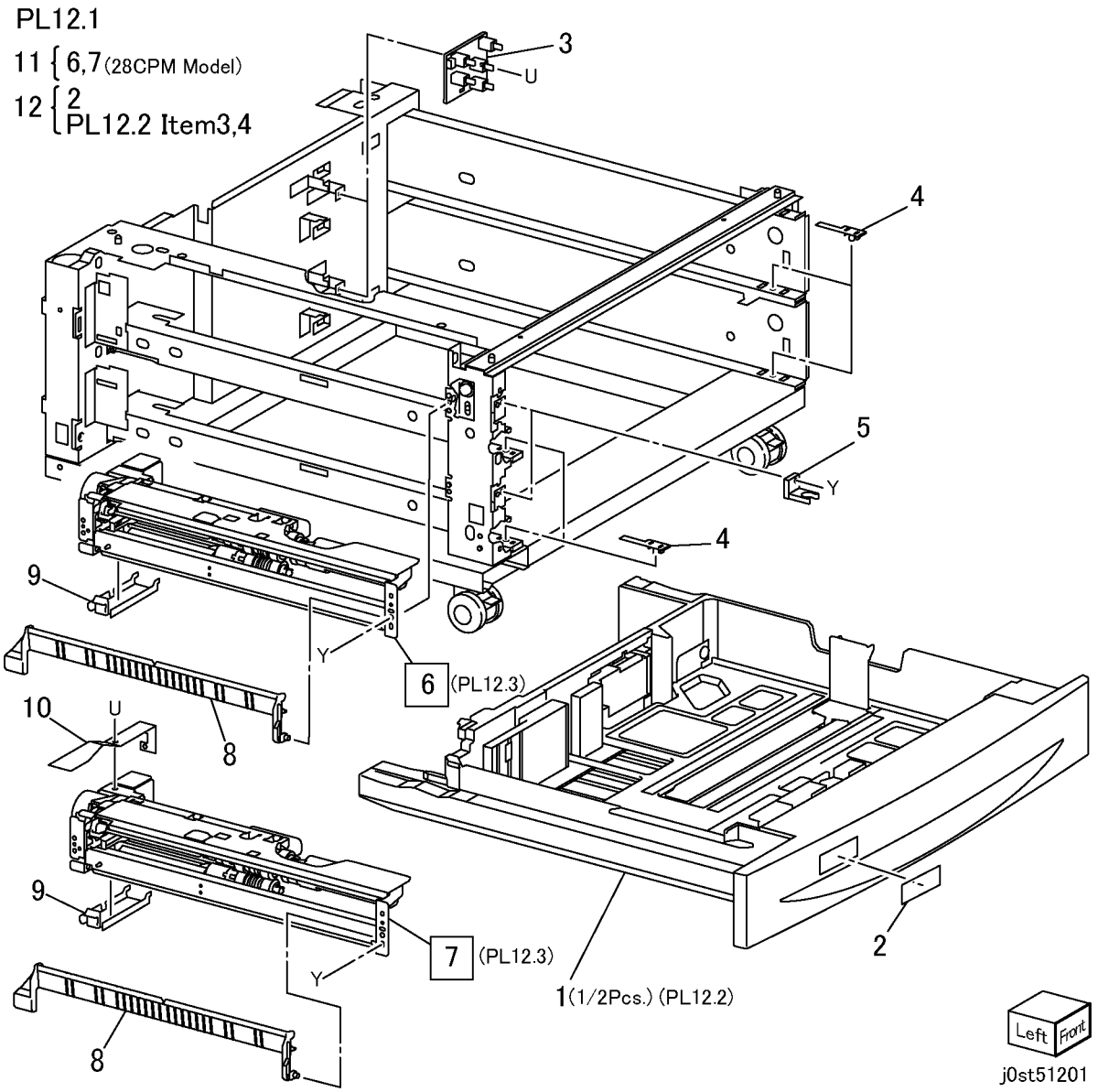
PL 11.6 Full/Half Rate Carriage

Item	Part	Description
1	–	Harness Guide (P/O PL 11.6 Item 2)
2	041K94470	Full Rate Carriage Assembly (Item1,3-11) (ADJ 11.6.11)
3	–	Full Rate Carriage (P/O PL 11.6 Item 2)
4	117E21570	Lamp Wire Harness (REP 11.6.2)
5	–	Guide (P/O PL 11.6 Item 2)
6	062E10800	No.1 Mirror
7	–	Clip (P/O PL 11.6 Item 2)
8	–	Insulator (P/O PL 11.6 Item 2)
9	122K93480	Exposure Lamp (REP 11.6.1)
10	105E12140	Lamp Ballast PWB
11	–	Pad (P/O PL 11.6 Item 2)
12	041K94440	Half Rate Carriage Assembly (Item13-18) (ADJ 11.6.1)
13	–	No.2,No.3 Mirror (P/O PL 11.6 Item 12)
14	–	Clip (P/O PL 11.6 Item 12)
15	–	Half Rate Carriage (P/O PL 11.6 Item 12)
16	–	Pulley (P/O PL 11.6 Item 12)
17	–	Pulley (P/O PL 11.6 Item 12)
18	–	Pad (P/O PL 11.6 Item 12)
19	–	Guide (P/O PL 11.6 Item 12)



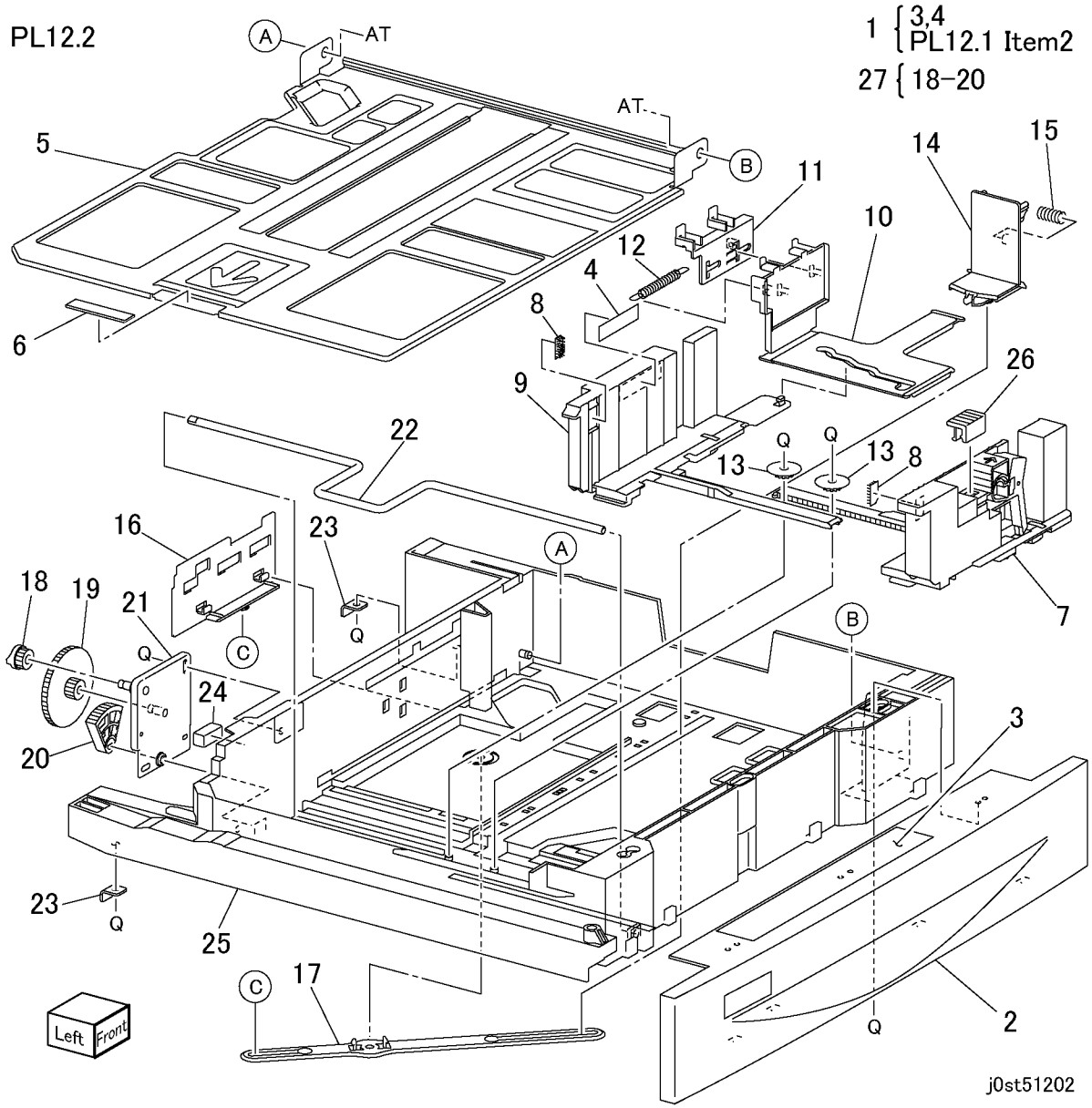
PL 12.1 Tray, Feeder Assembly-2Tray

Item	Part	Description
1	050K49840	Tray 3/4 Assembly (PL 12.2)
2	–	Label (No.3) (P/O PL 12.1 Item 12)
–	–	Label (No.4) (P/O PL 12.1 Item 12)
3	110K 11680	Tray 3/4 Paper Size Switch
4	014E 51110	Tray Spacer
5	003E 61510	Tray Stopper
6	–	Tray 3 Feeder (28CPM Model)(REP 12.1.1) (P/O PL 12.1 Item 11)
–	059K40370	Tray 3 Feeder (33CPM Model)(REP 12.1.1)
7	–	Tray 4 Feeder (28CPM Model)(REP 12.1.2) (P/O PL 12.1 Item 11)
–	059K40370	Tray 4 Feeder (33CPM Model)(REP 12.1.2)
8	054E 25722	Feed Out Chute
9	–	Sensor Cover (Not Spared)
10	–	Cover (Not Spared)
11	604K 20710	Tray 3/4 Feeder Kit (28CPM Model)
12	604K 20550	Tray Label Kit



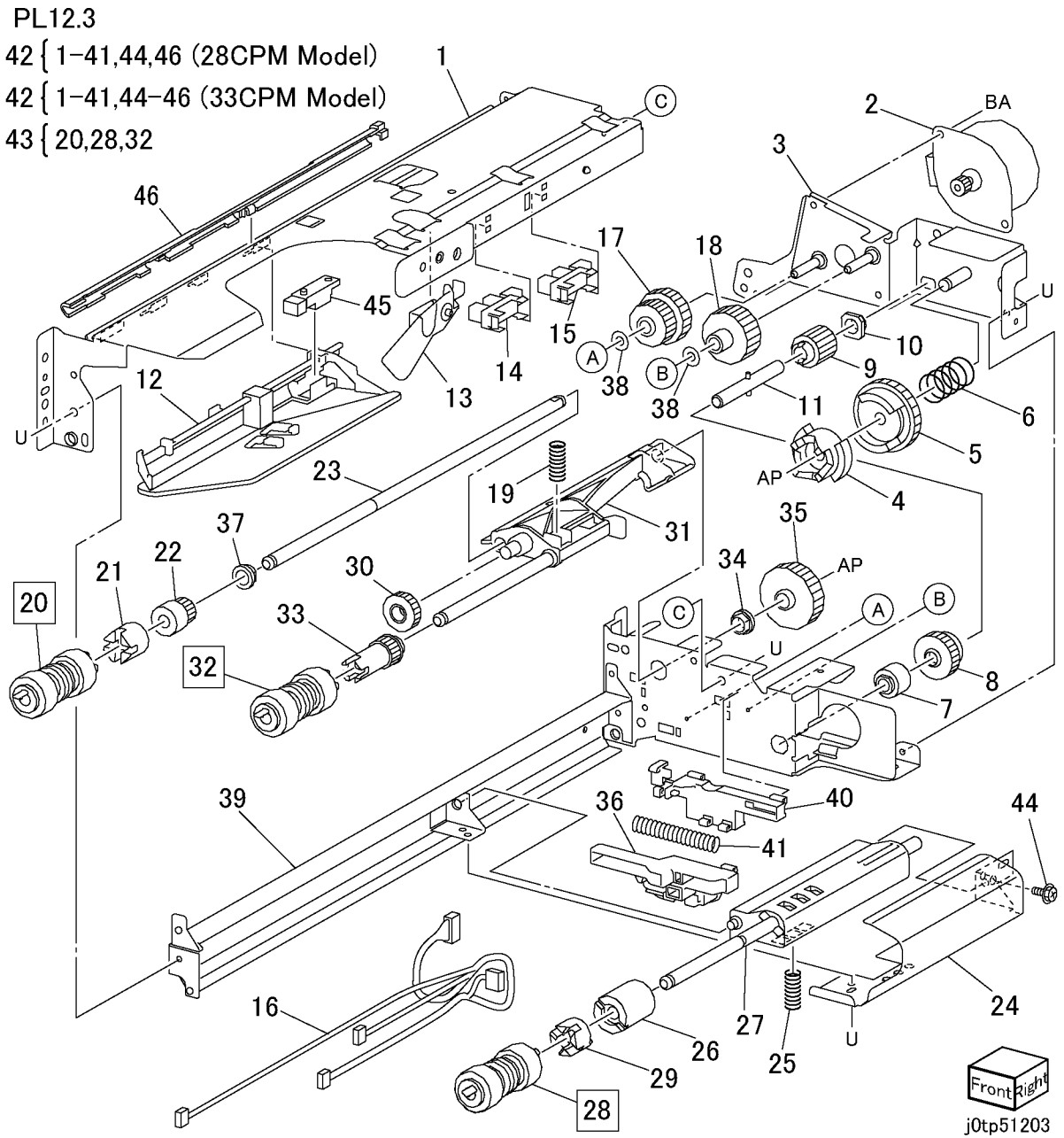
PL 12.2 Tray 3/4 Assembly-2Tray

Item	Part	Description
1	604K20550	Tray Label Kit
2	–	Tray Cover (P/O PL 12.1 Item 1)
3	–	Label (Instruction) (P/O PL 12.2 Item 1)
4	–	Label (Max) (P/O PL 12.2 Item 1)
5	–	Bottom Plate (P/O PL 12.1 Item 1)
6	–	Bottom Pad (P/O PL 12.1 Item 1)
7	–	Front Side Guide (P/O PL 12.1 Item 1)
8	–	Tray Pad (P/O PL 12.1 Item 1)
9	–	Rear Side Guide (P/O PL 12.1 Item 1)
10	–	Side Guide Actuator (P/O PL 12.1 Item 1)
11	–	Guide Actuator (P/O PL 12.1 Item 1)
12	–	Spring (P/O PL 12.1 Item 1)
13	–	Pinion Gear (P/O PL 12.1 Item 1)
14	–	End Guide (P/O PL 12.1 Item 1)
15	–	Spring (P/O PL 12.1 Item 1)
16	–	End Guide Actuator (P/O PL 12.1 Item 1)
17	–	Link (P/O PL 12.1 Item 1)
18	–	Coupling Gear (13T) (P/O PL 12.2 Item 27)
19	–	Gear (13T/60T) (P/O PL 12.2 Item 27)
20	–	Sector Gear (60T) (P/O PL 12.2 Item 27)
21	–	Bracket (P/O PL 12.1 Item 1)
22	–	Lift Up Shaft (P/O PL 12.1 Item 1)
23	–	Stopper (P/O PL 12.1 Item 1)
24	–	Seal (P/O PL 12.1 Item 1)
25	–	Tray (P/O PL 12.1 Item 1)
26	010E93341	Slide Lock
27	604K20540	Tray Gear Kit



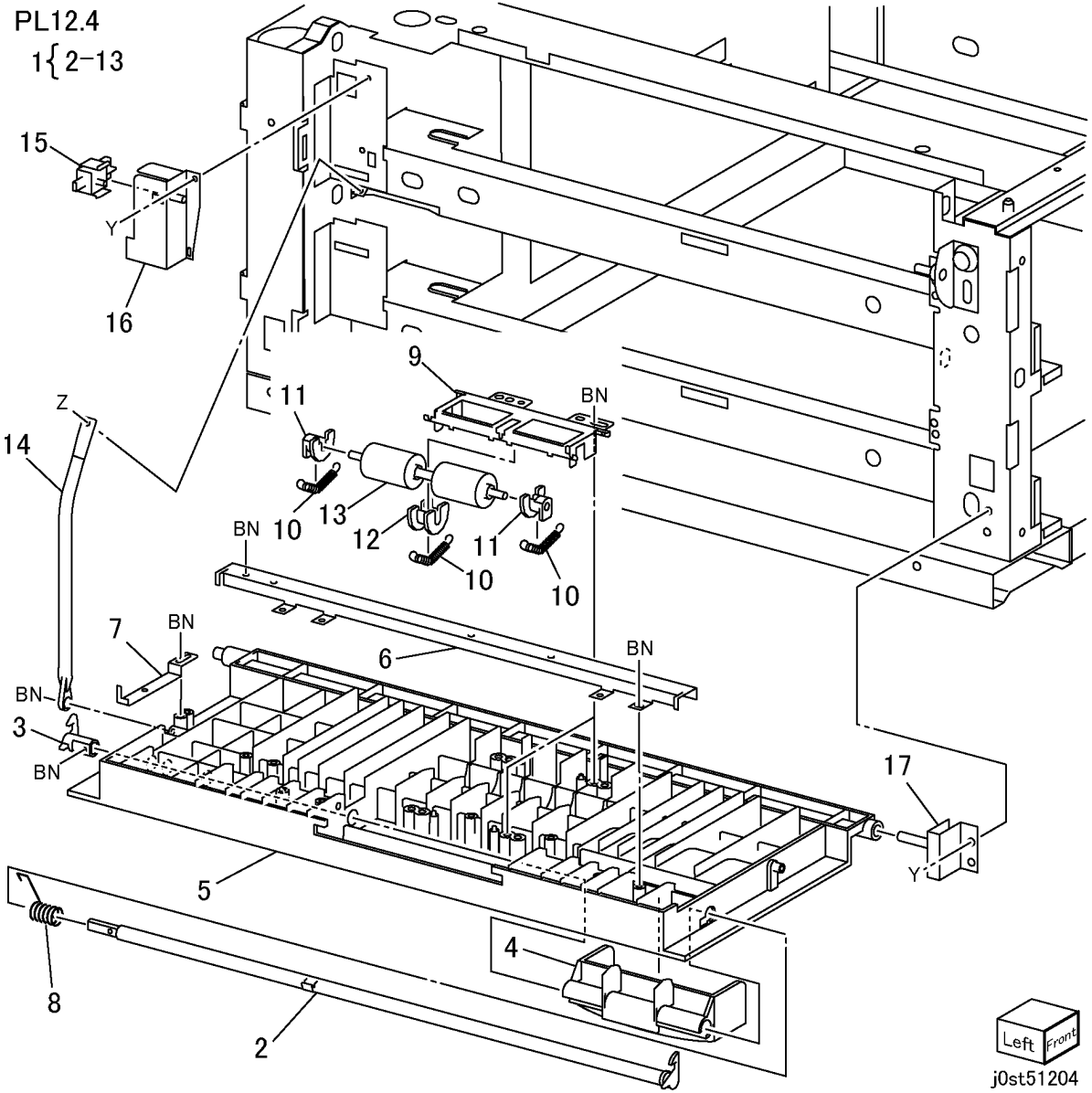
PL 12.3 Tray 3/4 Feeder-2Tray

Item	Part	Description
1	–	Upper Frame (P/O PL 12.3 Item 42)
2	127K38170	Tray 3/4 Feed/Lift Up Motor
3	–	Bracket (P/O PL 12.3 Item 42)
4	–	Spacer (P/O PL 12.3 Item 42)
5	–	Gear (31T) (P/O PL 12.3 Item 42)
6	–	Spring (P/O PL 12.3 Item 42)
7	–	Oneway Clutch (P/O PL 12.3 Item 42)
8	–	Oneway Gear (P/O PL 12.3 Item 42)
9	–	Gear (33T) (P/O PL 12.3 Item 42)
10	–	Bearing (P/O PL 12.3 Item 42)
11	–	Shaft (P/O PL 12.3 Item 42)
12	–	Front Chute (P/O PL 12.3 Item 42)
13	120E22481	Actuator
14	930W00113	Tray 3/4 Level Sensor
15	930W00113	Tray 3/4 No Paper Sensor
16	962K19691	Wire Harness (28CPM Model)
–	962K18912	Wire Harness (33CPM Model)
17	–	Gear (28T/21T) (P/O PL 12.3 Item 42)
18	–	Gear (29T) (P/O PL 12.3 Item 42)
19	–	Spring (P/O PL 12.3 Item 42)
20	–	Feed Roll (REP 12.3.1) (P/O PL 12.3 Item 43)
21	005K05890	Oneway Clutch
22	005K06760	Oneway Gear (22T)
23	–	Shaft (P/O PL 12.3 Item 42)
24	–	Chute (P/O PL 12.3 Item 42)
25	–	Spring (P/O PL 12.3 Item 42)
26	005K07010	Friction Clutch
27	–	Support Assembly
28	–	Retard Roll (REP 12.3.1) (P/O PL 12.3 Item 43)
29	–	Spacer (P/O PL 12.3 Item 42)
30	–	Gear (13T) (P/O PL 12.3 Item 42)
31	–	Support Assembly
32	–	Nudger Roll (REP 12.3.1) (P/O PL 12.3 Item 43)
33	–	Gear (25T) (P/O PL 12.3 Item 42)
34	–	Bearing (P/O PL 12.3 Item 42)
35	–	Gear (34T) (P/O PL 12.3 Item 42)
36	–	Lever (P/O PL 12.3 Item 42)
37	–	Bearing (P/O PL 12.3 Item 42)
38	–	Washer (P/O PL 12.3 Item 42)
39	–	Lower Frame (P/O PL 12.3 Item 42)
40	–	Holder (P/O PL 12.3 Item 42)
41	–	Spring (P/O PL 12.3 Item 42)
42	–	Tray 3/4 Feeder Assembly (P/O PL 12.1 Item 11)(28CPM Model)
–	–	Tray 3/4 Feeder Assembly (P/O PL 12.1 Item 6)(33CPM Model)
43	604K20530	Feeder Roll Kit (Feed/Nudger/ Retard)
44	–	Screw (P/O PL 12.3 Item 42)
45	930W00211	Tray3/4 Per Feed Sensor (33CPM Model)
46	–	Harness Holder(CTR) (28CPM Model) (P/O PL 12.3 Item 42)
–	113E37571	Harness Holder(CTR) (33CPM Model)



PL 12.4 Left Cover-2Tray

Item	Part	Description
1	802K 53502	Left Cover Assembly
2	–	Latch (P/O PL 12.4 Item 1)
3	–	Hook (P/O PL 12.4 Item 1)
4	–	Handle (P/O PL 12.4 Item 1)
5	–	Left Cover (P/O PL 12.4 Item 1)
6	–	Chute (P/O PL 12.4 Item 1)
7	–	Actuator (P/O PL 12.4 Item 1)
8	–	Spring (P/O PL 12.4 Item 1)
9	–	Bracket (P/O PL 12.4 Item 1)
10	–	Spring (P/O PL 12.4 Item 1)
11	–	Bearing (P/O PL 12.4 Item 1)
12	–	Bearing (P/O PL 12.4 Item 1)
13	059E98190	Pinch Roll
14	830E45710	Support
15	110E10620	Tray Module Left Cover Interlock Switch
16	–	Bracket Assembly (Not Spared)
17	–	Bracket (Not Spared)

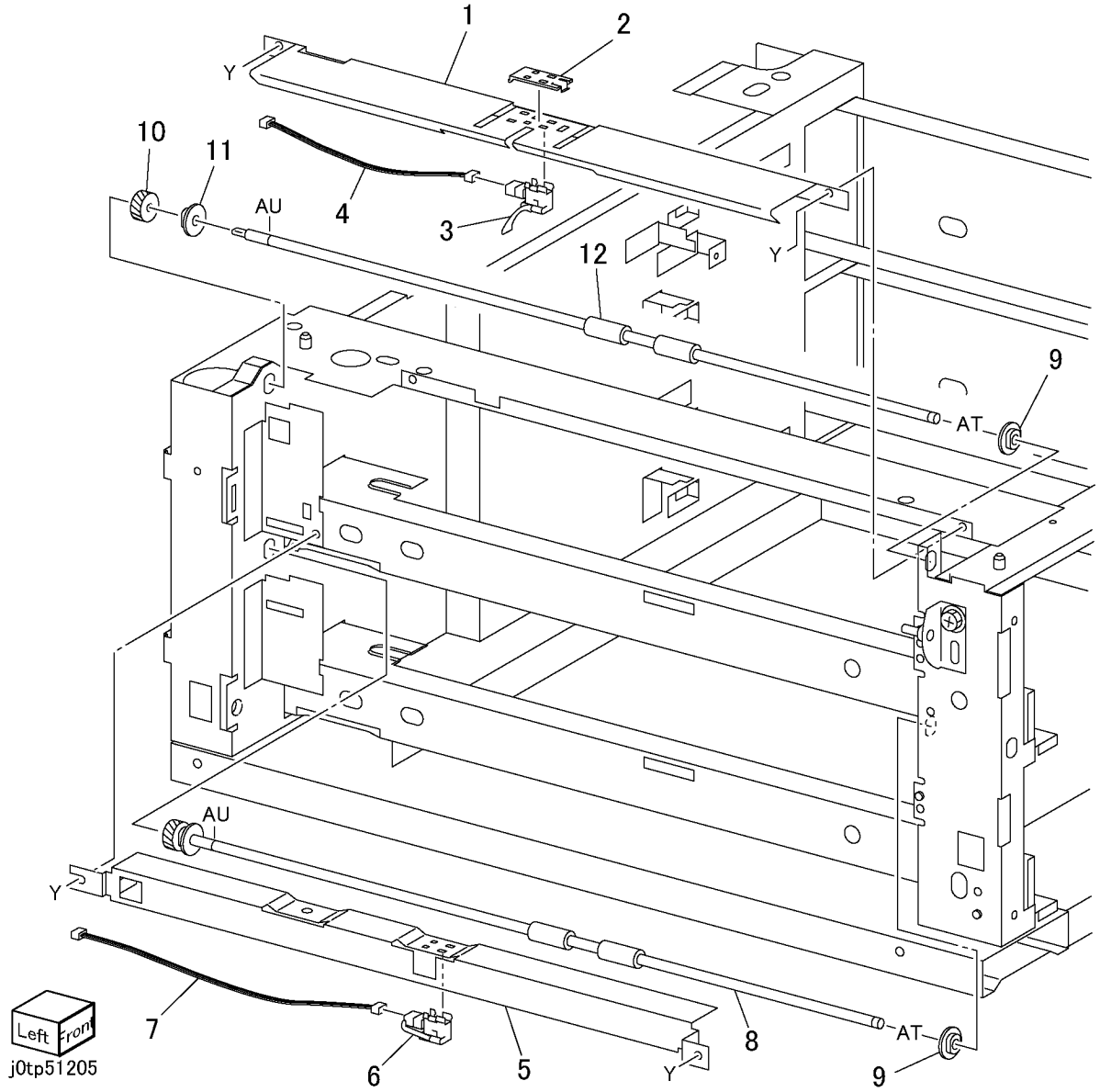


PL 12.5 Takeaway Roll-2Tray

Item	Part	Description
1	–	Chute (Not Spared)
2	–	Cover (Not Spared)
3	130K64121	Tray 3 Feed Out Sensor
4	962K18171	Wire Harness
5	–	Chute (Not Spared)
6	130K64471	Tray 4 Feed Out Sensor
7	962K18900	Wire Harness
8	059K26250	Takeaway Roll Assembly (Item 10-12)(28CPM Model)
9	604K20720	Bearing Kit
10	–	Gear(16T)(28CPM Model)(P/O PL 12.5 Item 8)
–	807E08650	Gear(16T)(33CPM Model)
11	–	Bearing(28CPM Model)(P/O PL 12.5 Item 8)
–	–	Bearing(33CPM Model)
12	–	Takeaway Roll(28CPM Model)(P/O PL 12.5 Item 8)
–	059K40380	Takeaway Roll(33CPM Model)

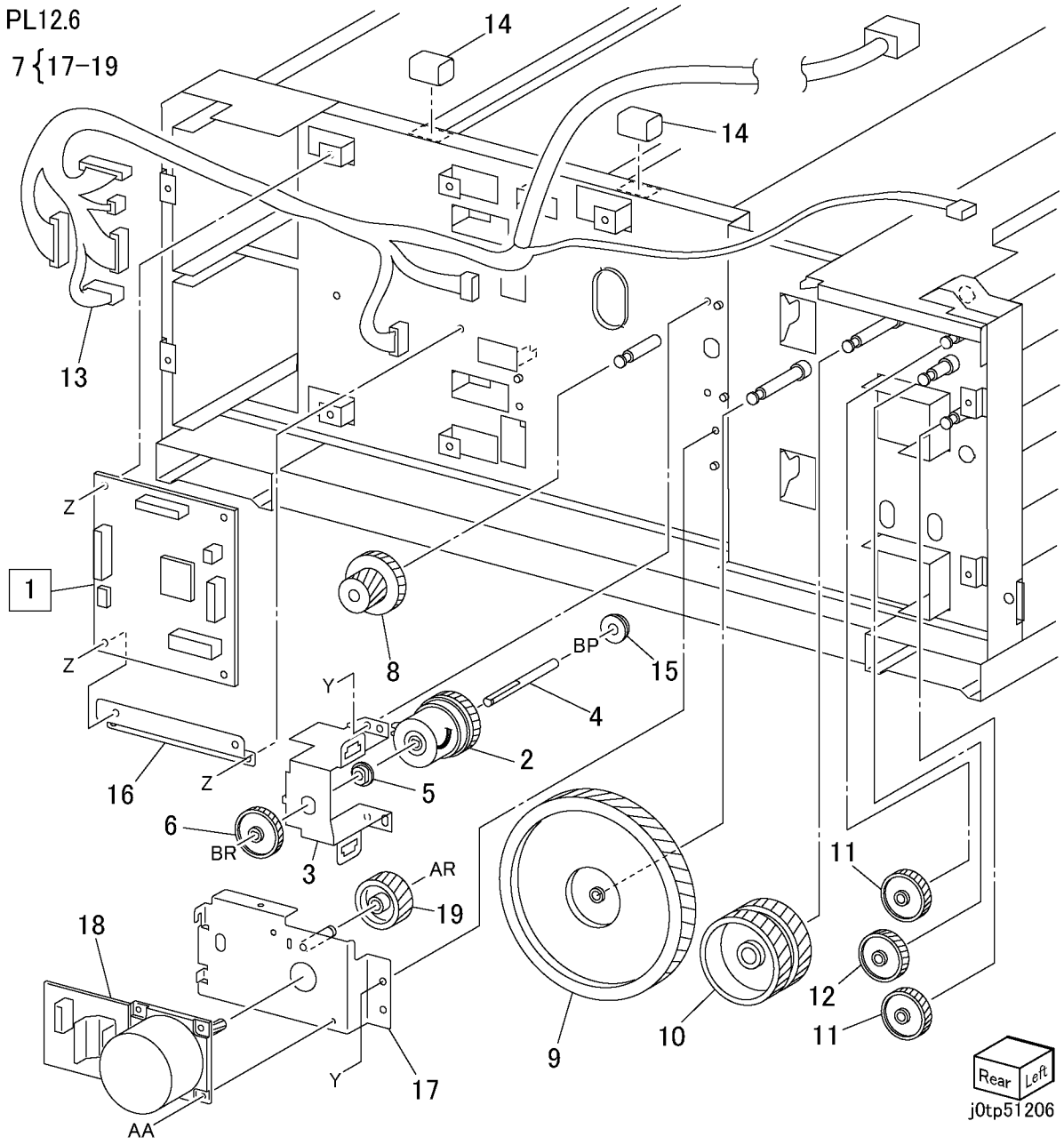
PL12.5

8 {10-12 (28CPM Model)



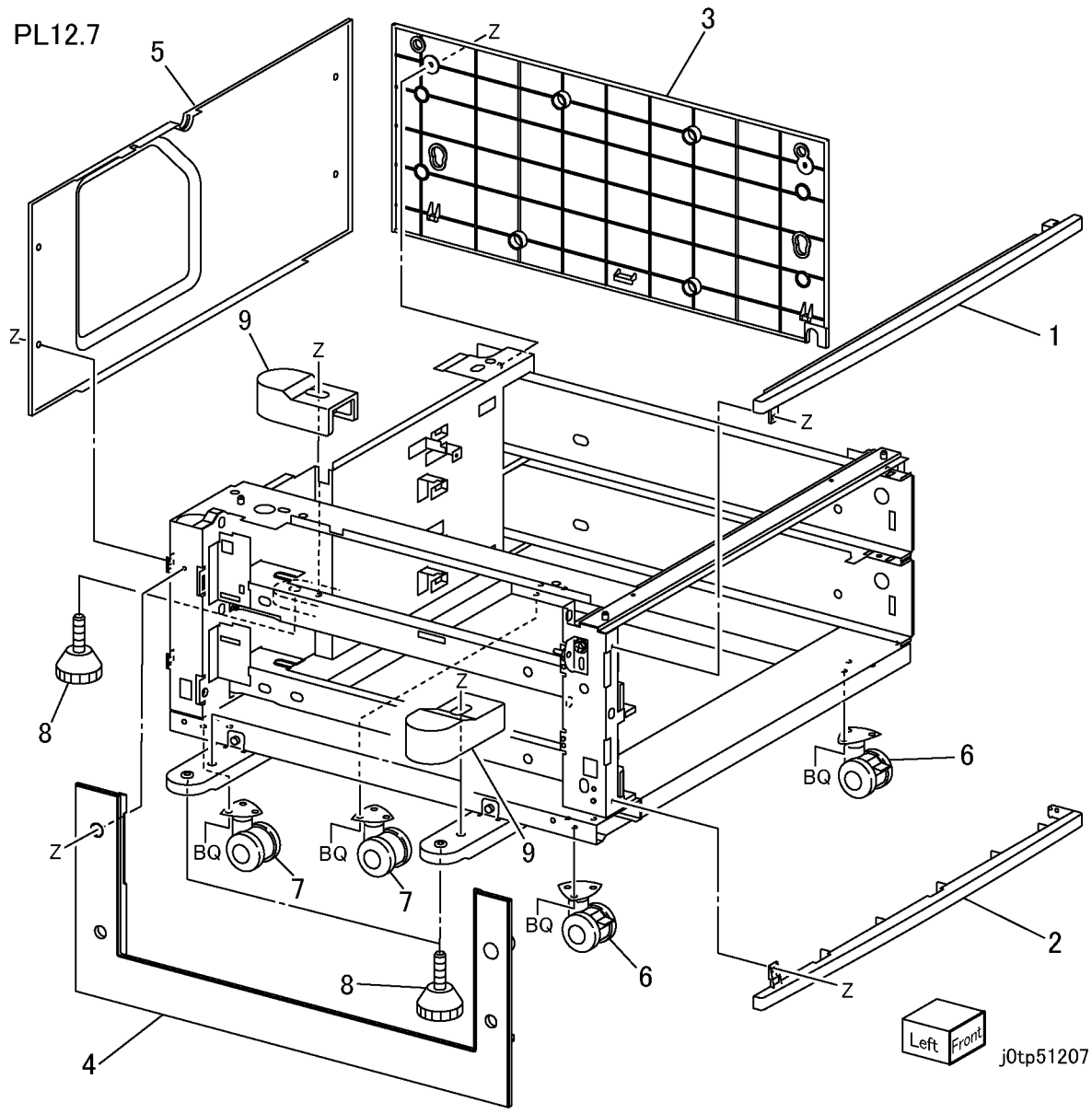
PL 12.6 Electrical-2Tray

Item	Part	Description
1	160K97456	2Tray Module PWB(28CPM Model)(REP 12.6.1)
–	960K05030	2Tray Module PWB(33CPM Model)(REP 12.6.1)
2	121K31530	2Tray Module Takeaway Roll Clutch
3	–	Bracket (Not Spared)
4	–	Shaft (Not Spared)
5	–	Bearing (Not Spared)
6	–	Gear (38T) (Not Spared)
7	007K89301	2Tray Module Takeaway Motor Assembly (Item17-19)(28CPM Model)
–	007K93800	2Tray Module Takeaway Motor Assembly (Item17-19)(33CPM Model)
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	962K18162	Wire Harness(28CPM Model)
–	962K30410	Wire Harness(33CPM Model)
14	–	Gasket (Not Spared)
15	604K20720	Bearing
16	–	Bracket (33CPM Model)(Not Spared)
17	–	Bracket (P/O PL 12.6 Item 7)
18	–	2Tray Module Takeaway Motor (28CPM Model) (P/O PL 12.6 Item 7)
–	127K48490	2Tray Module Takeaway Motor (33CPM Model)
19	–	Gear(36T/72T) (28CPM Model) (P/O PL 12.6 Item 7)
–	–	Gear(50T) (33CPM Model) (P/O PL 12.6 Item 7)



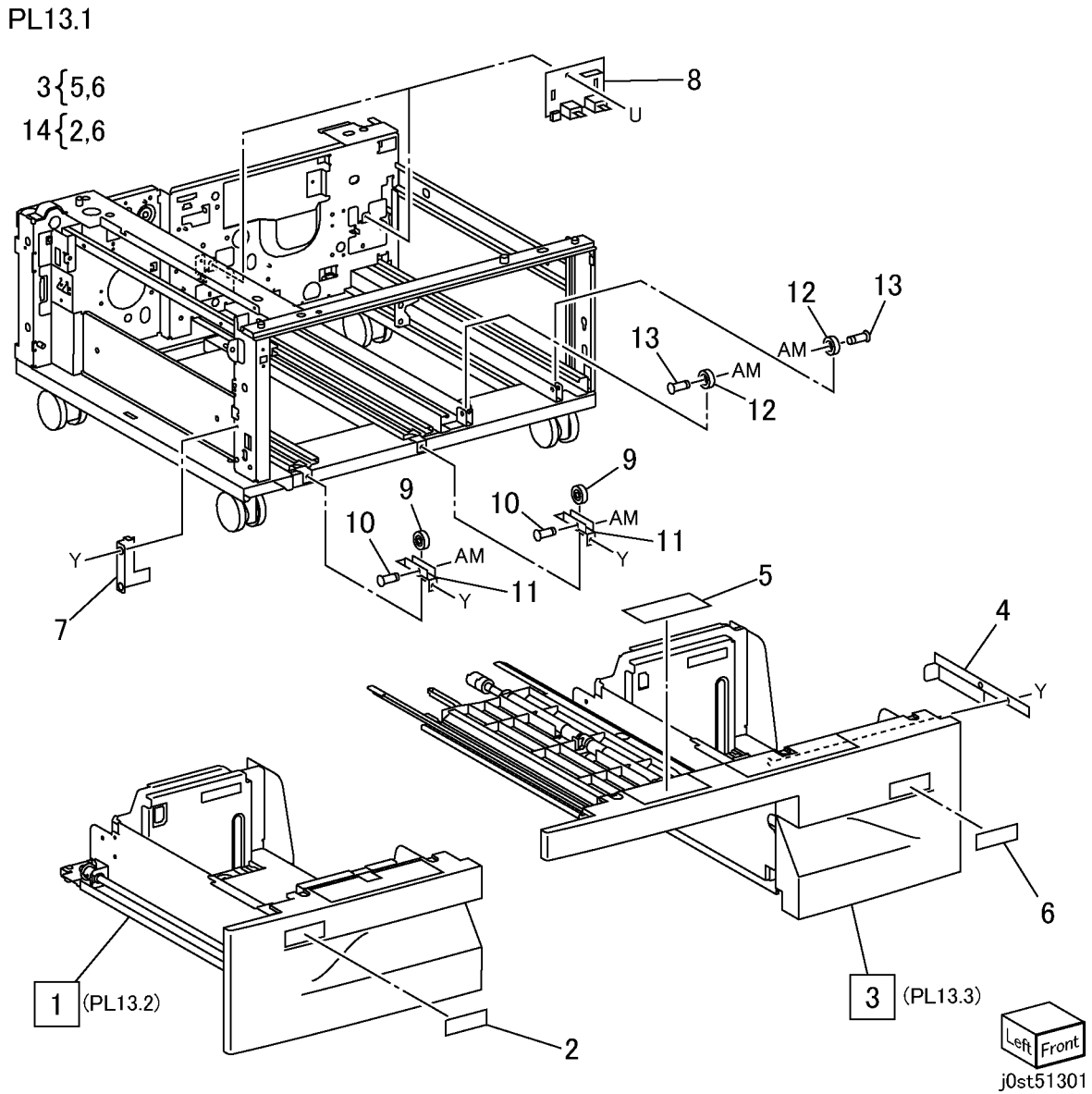
PL 12.7 Cover-2Tray

Item	Part	Description
1	–	Top Cover (Not Spared)
2	–	Foot Cover (Not Spared)
3	802E54750	Right Cover
4	802E54762	Left Cover
5	802E54771	Rear Cover
6	–	Caster (Stopper) (Not Spared)
7	–	Caster (Not Spared)
8	–	Foot (Not Spared)
9	–	Foot Cover (Not Spared)



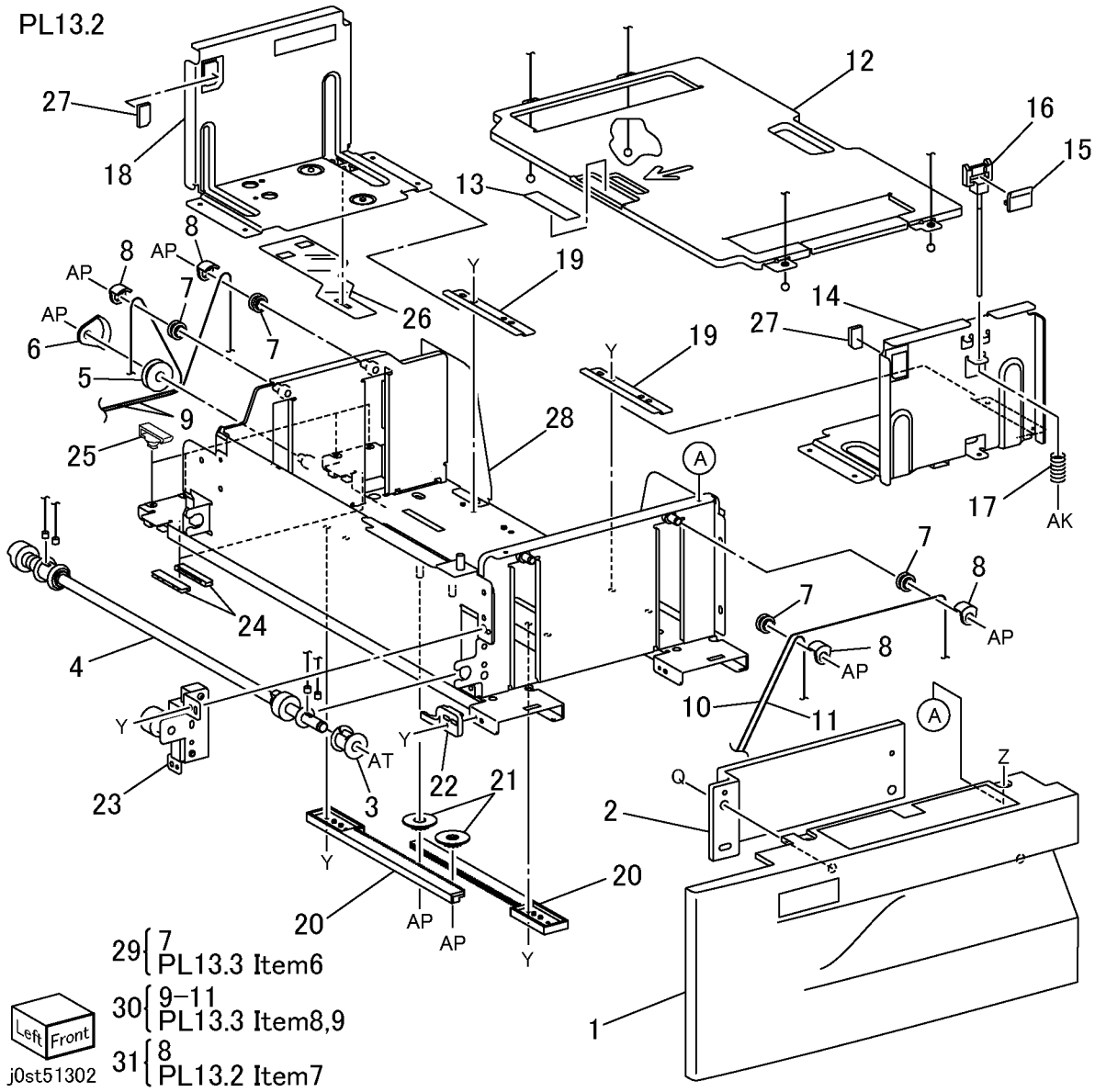
PL 13.1 Tray 3/4 Assembly-Tandem Tray

Item	Part	Description
1	050K49430	Tray 3 Assembly (PL 13.2) (REP 13.1.1) (with Item2)
2	–	Label (3) (P/O PL 13.1 Item 14)
3	050K49410	Tray 4 Assembly (PL 13.3) (REP 13.1.2) (With Item5,6)
4	–	Tray 4 Stopper (P/O PL 13.1 Item 3)
5	–	Label (P/O PL 13.1 Item 3)
6	–	Label (4) (P/O PL 13.1 Item 14)
7	–	Tray 3 Stopper (Not Spared)
8	110K11820	Tray 3/4 Paper Size Switch
9	059E98210	Roll
10	–	Shaft (Not Spared)
11	–	Bracket (Not Spared)
12	059E98210	Roll
13	–	Shaft (Not Spared)
14	604K20550	Tray Label Kit



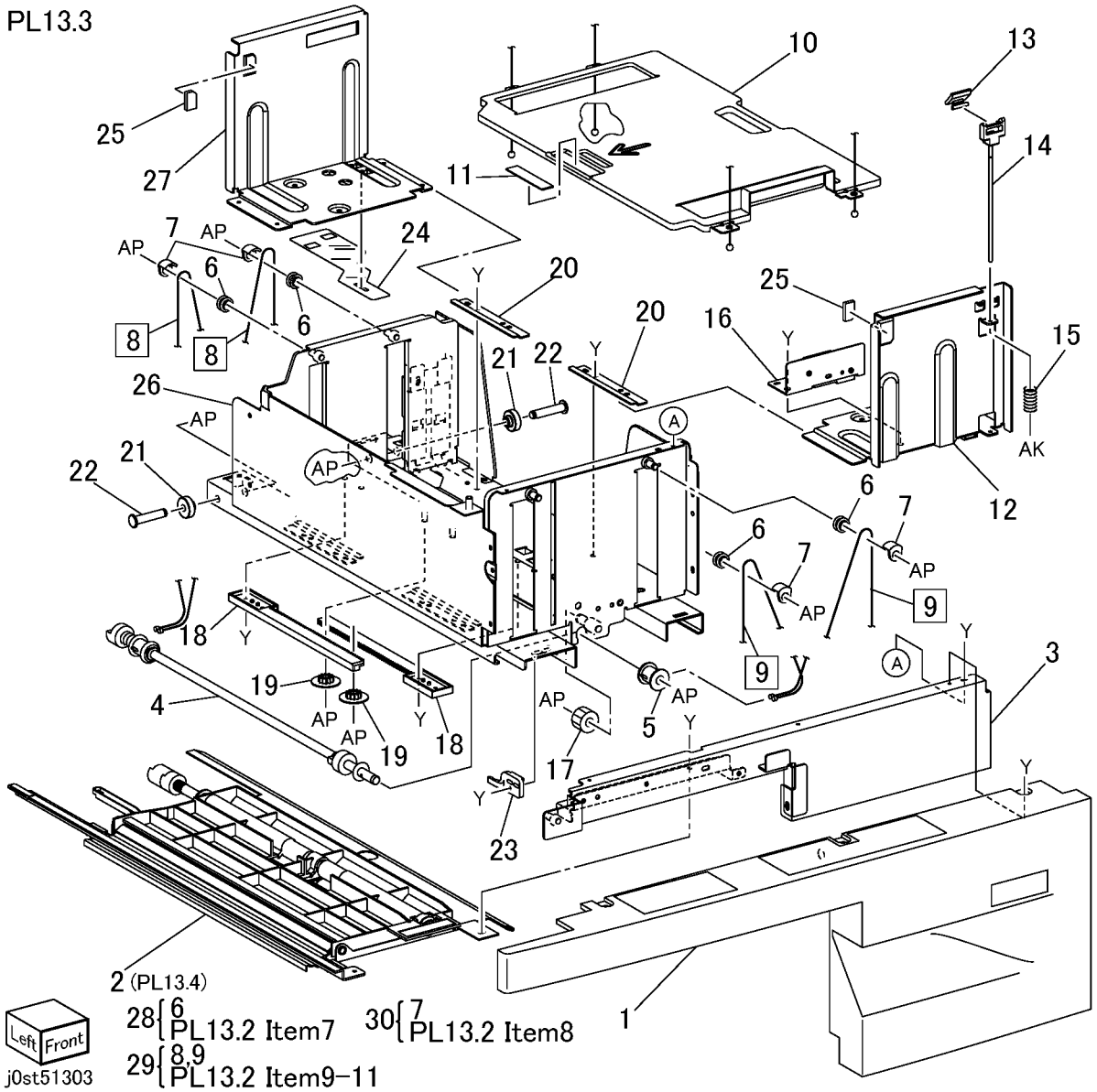
PL 13.2 Tray 3 Assembly-Tandem Tray

Item	Part	Description
1	–	Tray 3 Cover (P/O PL 13.1 Item 1)
2	–	Handle Tray (P/O PL 13.1 Item 1)
3	–	Pulley (P/O PL 13.1 Item 1)
4	006K23011	Lift Shaft Assembly
5	020E36560	Pulley
6	032E20890	Cable Guide
7	–	Pulley (P/O PL 13.2 Item 29)
8	–	Cable Guide (P/O PL 13.2 Item 31)
9	–	Tray Cable (P/O PL 13.2 Item 30)
10	–	Tray Cable (P/O PL 13.2 Item 30)
11	–	Tray Cable (P/O PL 13.2 Item 30)
12	–	Bottom Plate (P/O PL 13.1 Item 1)
13	–	Pad (P/O PL 13.1 Item 1)
14	–	Front Side Guide (P/O PL 13.1 Item 1)
15	–	Knob (P/O PL 13.1 Item 1)
16	–	Knob Assembly (P/O PL 13.1 Item 1)
17	–	Spring (P/O PL 13.1 Item 1)
18	–	Rear Side Guide (P/O PL 13.1 Item 1)
19	–	Bracket (P/O PL 13.1 Item 1)
20	–	Lack Gear (P/O PL 13.1 Item 1)
21	–	Pinion (P/O PL 13.1 Item 1)
22	003E49861	Stopper
23	030K75540	Brake Bracket
24	–	Rail Spacer (P/O PL 13.1 Item 1)
25	–	Spacer (P/O PL 13.1 Item 1)
26	–	Actuator (P/O PL 13.1 Item 1)
27	–	Pad (P/O PL 13.1 Item 1)
28	–	Frame Assembly (P/O PL 13.1 Item 1)
29	604K20730	Pulley Kit
30	604K20750	Tray Cable Kit
31	604K20740	Cable Guide Kit



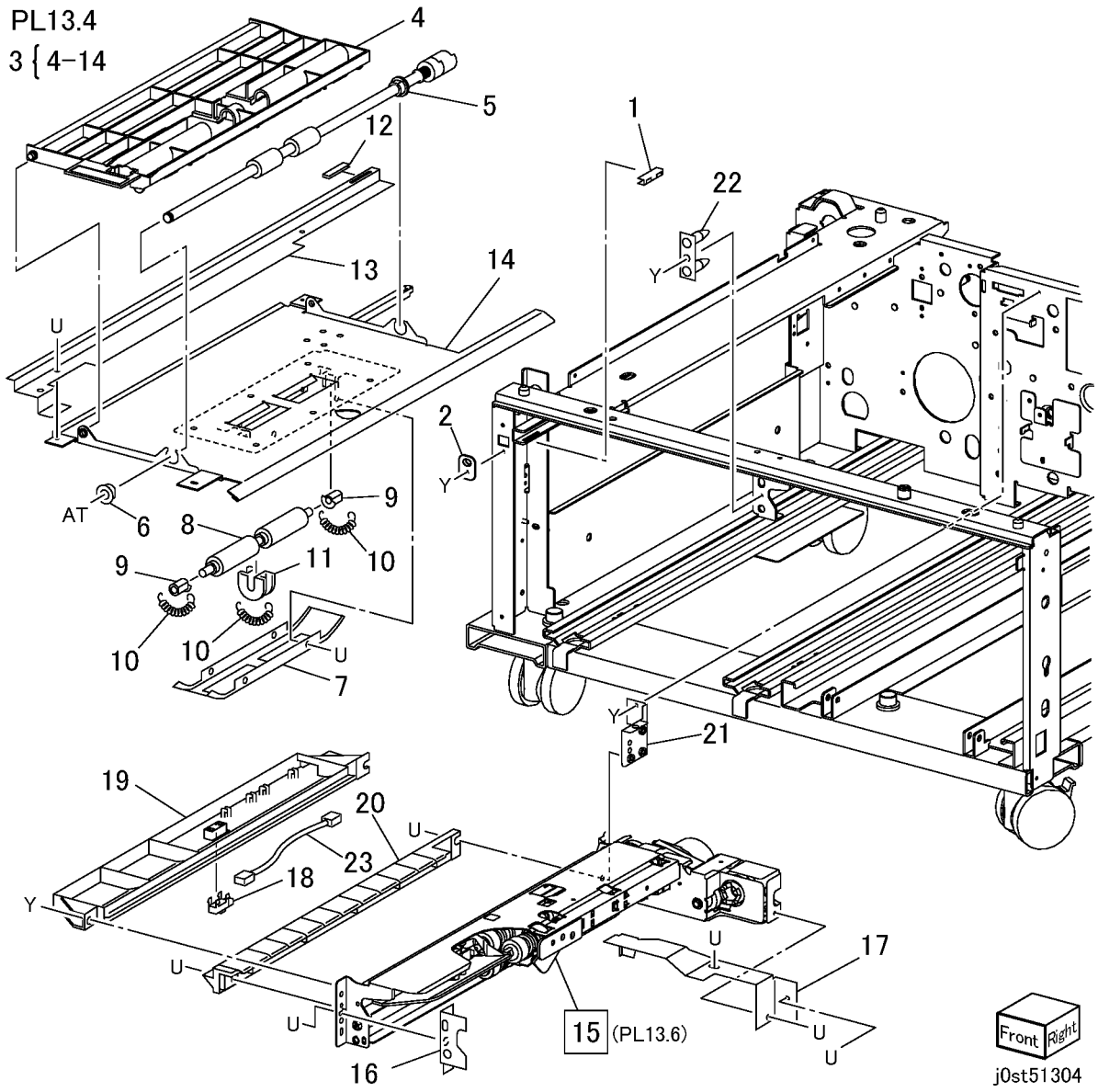
PL 13.3 Tray 4 Assembly-Tandem Tray

Item	Part	Description
1	–	Tray 4 Cover (P/O PL 13.1 Item 3)
2	059K26340	Tray 4 Transport Assembly (PL 13.4)
3	–	Frame Assembly (P/O PL 13.1 Item 3)
4	006K23011	Lift Shaft Assembly
5	020E36820	Pulley
6	–	Pulley (P/O PL 13.3 Item 28)
7	–	Cable Guide (P/O PL 13.3 Item 30)
8	–	Rear Tray Cable (REP 13.3.1) (P/O PL 13.3 Item 29)
9	–	Front Tray Cable (REP 13.3.1) (P/O PL 13.3 Item 29)
10	–	Bottom Plate (P/O PL 13.1 Item 3)
11	–	Pad (P/O PL 13.1 Item 3)
12	–	Front Side Guide (P/O PL 13.1 Item 3)
13	–	Knob (P/O PL 13.1 Item 3)
14	–	Knob Assembly (P/O PL 13.1 Item 3)
15	–	Spring (P/O PL 13.1 Item 3)
16	–	Brake Bracket (P/O PL 13.1 Item 3)
17	007E78390	Gear
18	–	Rack Gear (P/O PL 13.1 Item 3)
19	–	Pinion (P/O PL 13.1 Item 3)
20	–	Bracket (P/O PL 13.1 Item 3)
21	–	Rail Roll (P/O PL 13.1 Item 3)
22	–	Shaft (P/O PL 13.1 Item 3)
23	003E49861	Stopper
24	–	Actuator (P/O PL 13.1 Item 3)
25	–	Pad (P/O PL 13.1 Item 3)
26	–	Frame Assembly (P/O PL 13.1 Item 3)
27	–	Rear Side Guide (P/O PL 13.1 Item 3)
28	604K20730	Pulley Kit
29	604K20750	Tray Cable Kit
30	607K20740	Cable Guide Kit



PL 13.4 Paper Feed (1/2)-Tandem Tray

Item	Part	Description
1	–	Spacer (Not Spared)
2	–	Guide (Not Spared)
3	–	Tray 4 Transport Assembly (P/O PL 13.3 Item 2)
4	–	Upper Chute (P/O PL 13.4 Item 3)
5	059K26350	Takeaway Roll Assembly
6	–	Bearing (P/O PL 13.4 Item 3)
7	–	Cover (P/O PL 13.4 Item 3)
8	059E98860	Pinch Roll
9	–	Bearing (P/O PL 13.4 Item 3)
10	–	Spring (P/O PL 13.4 Item 3)
11	–	Bearing (P/O PL 13.4 Item 3)
12	–	Spacer (P/O PL 13.4 Item 3)
13	–	Transport Rail (P/O PL 13.4 Item 3)
14	–	Lower Chute (P/O PL 13.4 Item 3)
15	059K26953	Tray 4 Feeder (28CPM Model)(PL 13.6) (REP 13.4.1)
–	059K42530	Tray 4 Feeder (33CPM Model)(PL 13.6) (REP 13.4.1)
16	–	Bracket (Not Spared)
17	–	Cover (Not Spared)
18	930W00212	Tray 4 Feed Out Sensor
19	–	Upper Chute (Not Spared)
20	–	Lower Chute (Not Spared)
21	–	Bracket (Not Spared)
22	–	Stand Bracket (Not Spared)
23	–	Wire Harness (Not Spared)

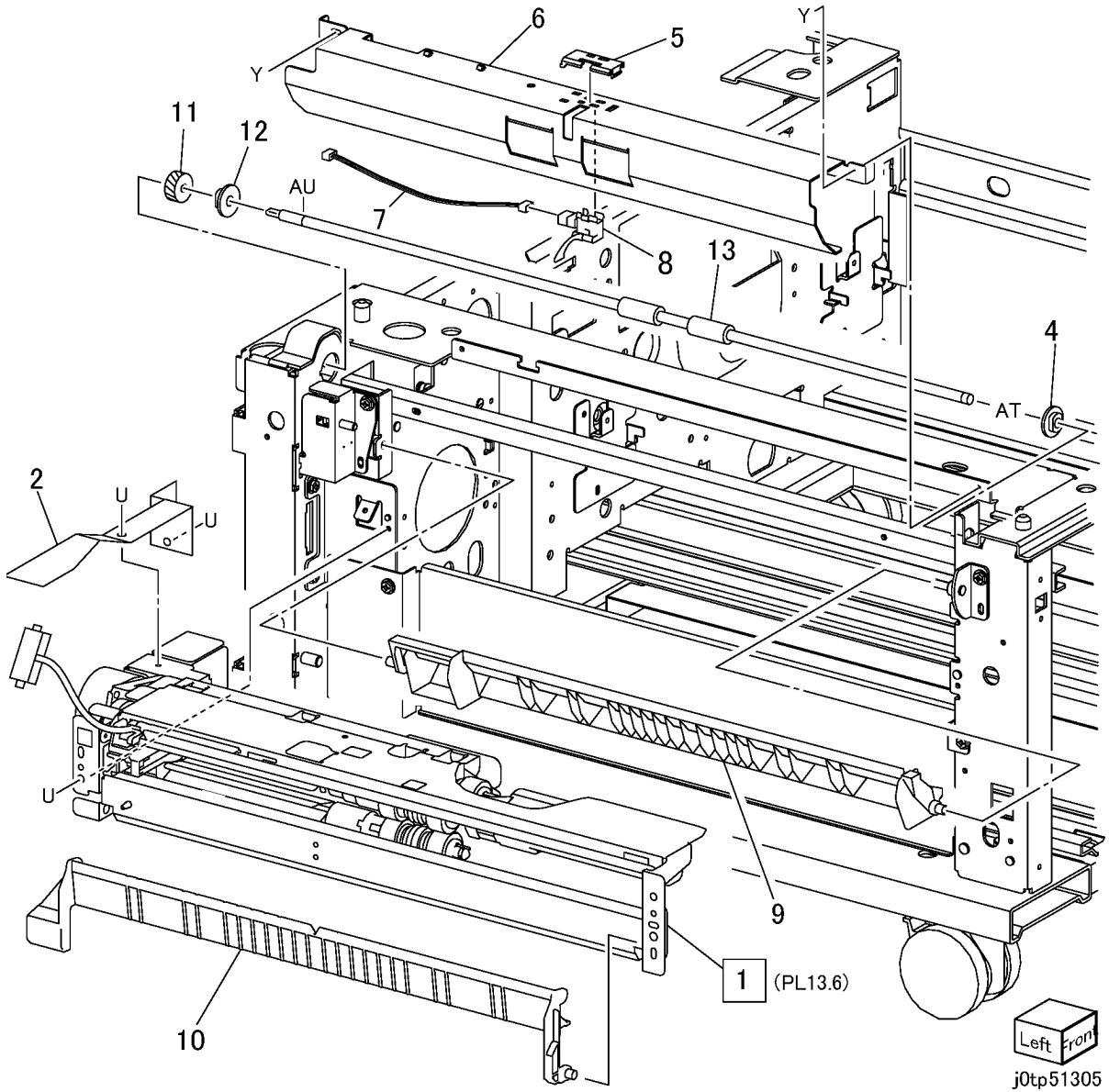


PL 13.5 Paper Feed (2/2)-Tandem Tray

Item	Part	Description
1	059K26953	Tray 3 Feeder (28CPM Model) (PL 13.6) (REP 13.5.1)
–	059K42530	Tray 3 Feeder (33CPM Model) (PL 13.6) (REP 13.5.1)
2	–	Cover (Not Spared)
3	059K26250	Takeaway Roll Assembly (Item11-13)(28CPM Model)
4	–	Bearing (Not Spared)
5	–	Cover (Not Spared)
6	–	Chute (Not Spared)
7	962K18171	Wire Harness
8	130K64121	Tray 3 Feed Out Sensor
9	–	Upper Chute (Not Spared)
10	054E25722	Lower Chute
11	–	Gear(16T)(28CPM Model)(P/O PL 13.5 Item 3)
–	807E08650	Gear(16T)(33CPM Model)
12	–	Bearing (28CPM Model)(P/O PL 13.5 Item 3)
–	–	Bearing (33CPM Model)(Not Spared)
13	–	Takeaway Roll (28CPM Model)(P/O PL 13.5 Item 3)
–	059K40380	Takeaway Roll (33CPM Model)

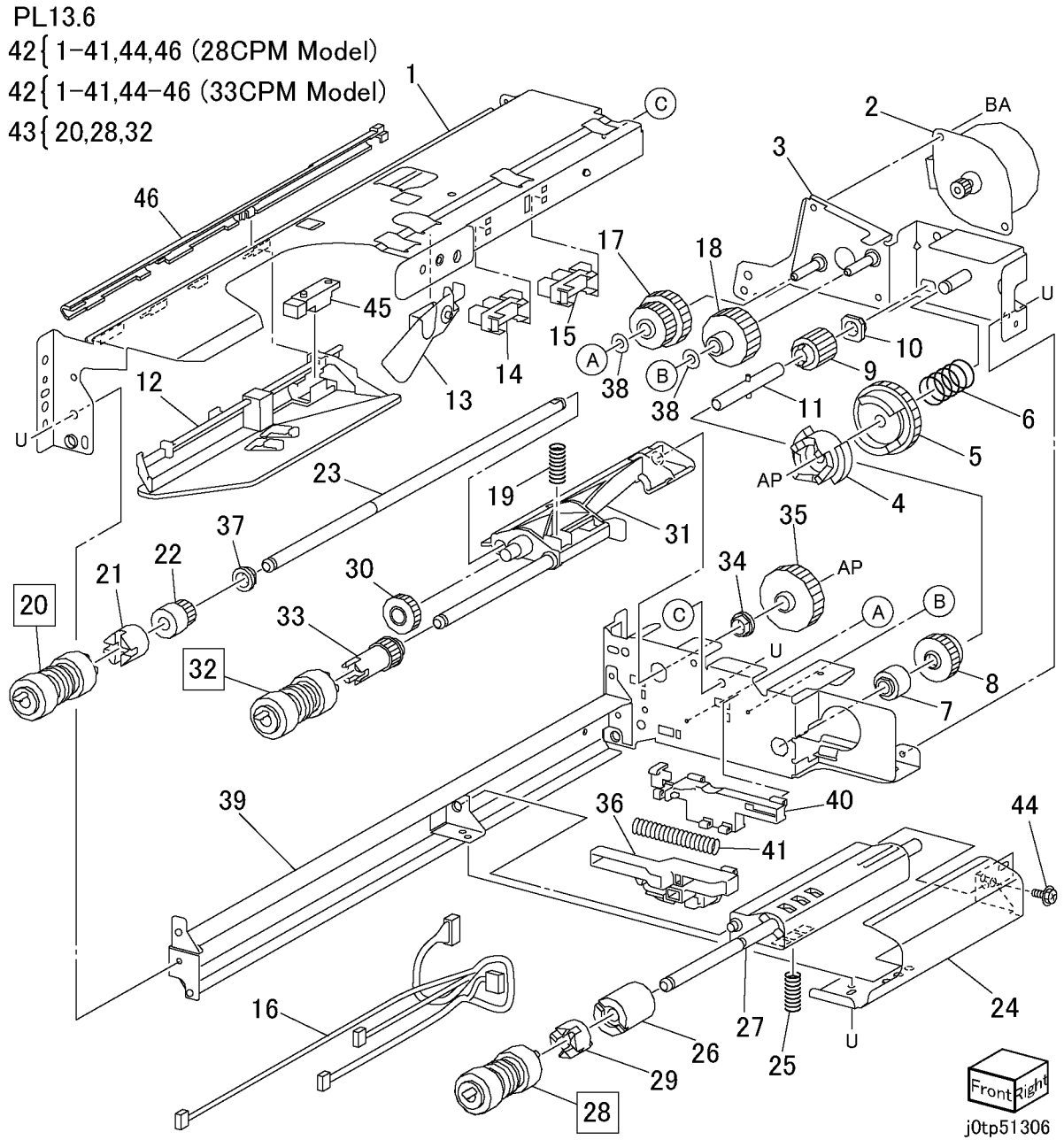
PL13.5

3 {11-13 (28CPM Model)



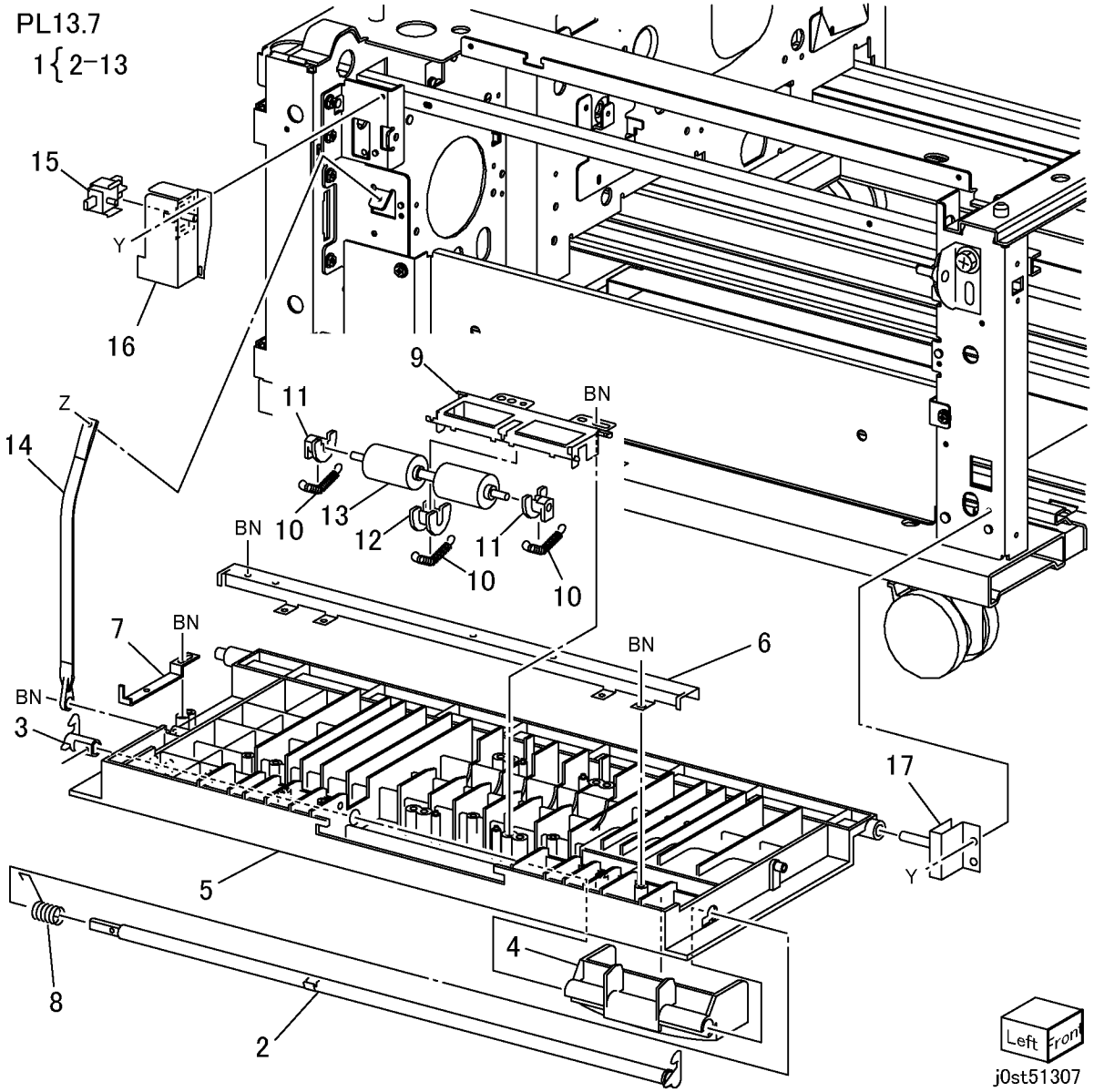
PL 13.6 Tray 3/4 Feeder-Tandem Tray

Item	Part	Description
1	–	Upper Frame (P/O PL 13.6 Item 42)
2	127K38170	Tray 3/4 Feed/Lift Up Motor
3	–	Bracket (P/O PL 13.6 Item 42)
4	014E44770	Spacer
5	–	Gear (31T) (P/O PL 13.6 Item 42)
6	–	Spring (P/O PL 13.6 Item 42)
7	–	Oneway Clutch (P/O PL 13.6 Item 42)
8	–	Oneway Gear (P/O PL 13.6 Item 42)
9	–	Gear (33T) (P/O PL 13.6 Item 42)
10	–	Bearing (P/O PL 13.6 Item 42)
11	–	Shaft (P/O PL 13.6 Item 42)
12	–	Front Chute (P/O PL 13.6 Item 42)
13	120E22481	Actuator
14	930W00113	Tray 3/4 Level Sensor (P/O PL 13.6 Item 42)
15	930W00113	Tray 3/4 No Paper Sensor
16	962K19691	Wire Harness (28CPM Model)
–	962K18912	Wire Harness (33CPM Model)
17	–	Gear (28T/21T) (P/O PL 13.6 Item 42)
18	–	Gear (29T) (P/O PL 13.6 Item 42)
19	–	Spring (P/O PL 13.6 Item 42)
20	–	Feed Roll (REP 12.3.1) (P/O PL 13.6 Item 43)
21	005K05890	Oneway Clutch
22	005K06760	Oneway Gear (22T)
23	–	Shaft (P/O PL 13.6 Item 42)
24	054E23170	Chute
25	–	Spring (P/O PL 13.6 Item 42)
26	005K07010	Friction Clutch
27	–	Support Assembly (P/O PL 13.6 Item 42)
28	–	Retard Roll (REP 12.3.1) (P/O PL 13.6 Item 43)
29	–	Spacer (P/O PL 13.6 Item 42)
30	–	Gear (13T) (P/O PL 13.6 Item 42)
31	–	Support Assembly
32	–	Nudger Roll (REP 12.3.1) (P/O PL 13.6 Item 43)
33	–	Gear (25T) (P/O PL 13.6 Item 42)
34	–	Bearing (P/O PL 13.6 Item 42)
35	–	Gear (34T) (P/O PL 13.6 Item 42)
36	–	Lever (P/O PL 13.6 Item 42)
37	–	Bearing (P/O PL 13.6 Item 42)
38	–	Washer (P/O PL 13.6 Item 42)
39	–	Lower Frame (P/O PL 13.6 Item 42)
40	–	Holder (P/O PL 13.6 Item 42)
41	–	Spring (P/O PL 13.6 Item 42)
42	–	Tray 3/4 Feeder Assembly (P/O PL 13.5 Item 1)
43	604K20530	Feeder Roll Kit (Feed/Nudger/ Retard)
44	–	Screw (P/O PL 13.6 Item 42)
45	930W00211	Tray3/4 Pre Feed Sensor (33CPM Model)
46	–	Harness Holder (28CPM Model) (P/O PL 13.6 Item 42)
–	113E37571	Harness Holder (33CPM Model)



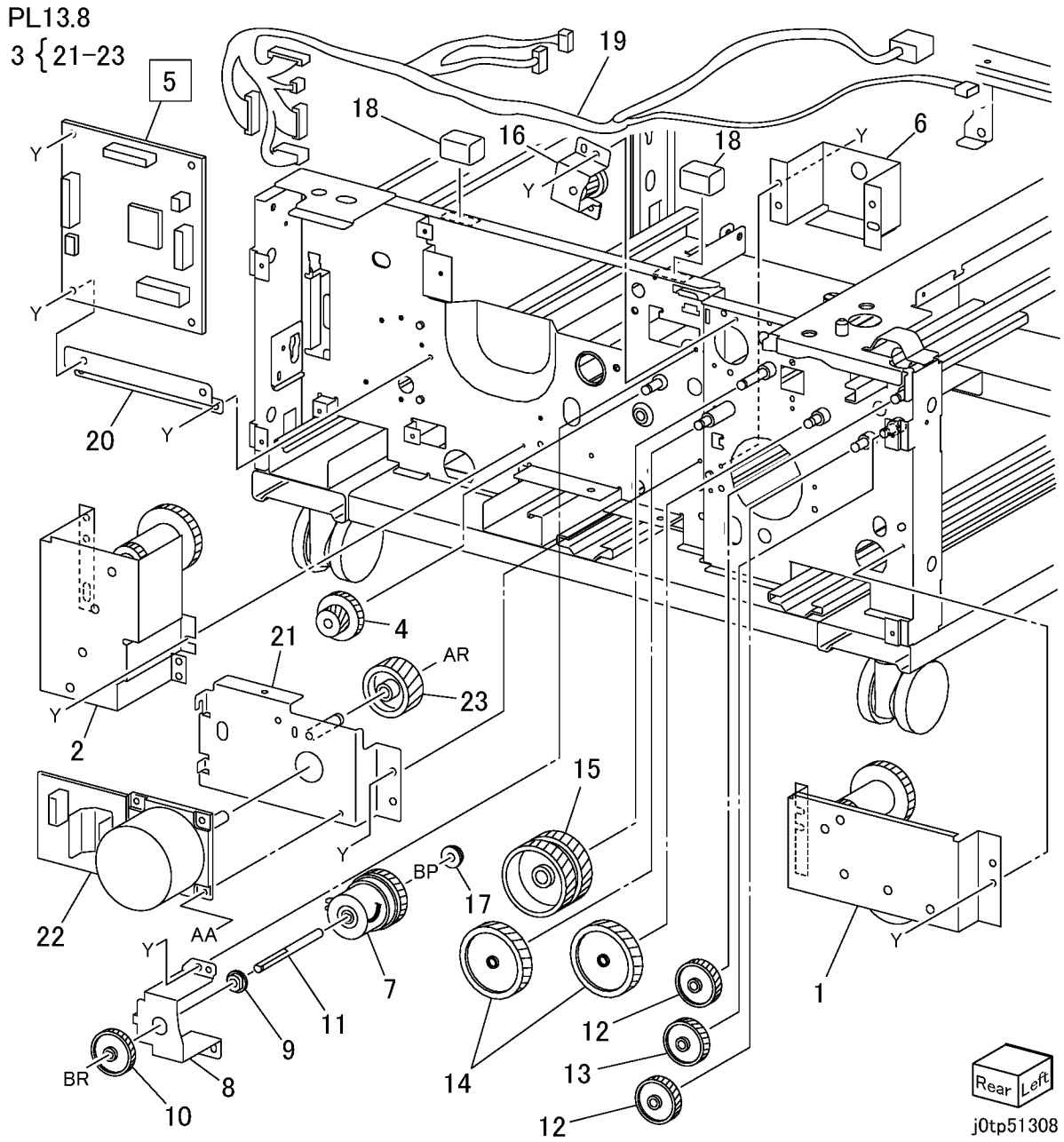
PL 13.7 Left Cover Assembly-Tandem Tray

Item	Part	Description
1	802K53485	Left Cover Assembly (Item2-13)
2	–	Latch (P/O PL 13.7 Item 1)
3	–	Hook (P/O PL 13.7 Item 1)
4	–	Handle (P/O PL 13.7 Item 1)
5	–	Left Cover (P/O PL 13.7 Item 1)
6	–	Chute (P/O PL 13.7 Item 1)
7	–	Actuator (P/O PL 13.7 Item 1)
8	–	Spring (P/O PL 13.7 Item 1)
9	–	Bracket (P/O PL 13.7 Item 1)
10	–	Spring (P/O PL 13.7 Item 1)
11	–	Bearing (P/O PL 13.7 Item 1)
12	–	Bearing (P/O PL 13.7 Item 1)
13	059E98190	Pinch Roll
14	830E45710	Support
15	110E10620	Tray Module Left Cover Interlock Switch
16	–	Bracket (Not Spared)
17	–	Bracket (Not Spared)



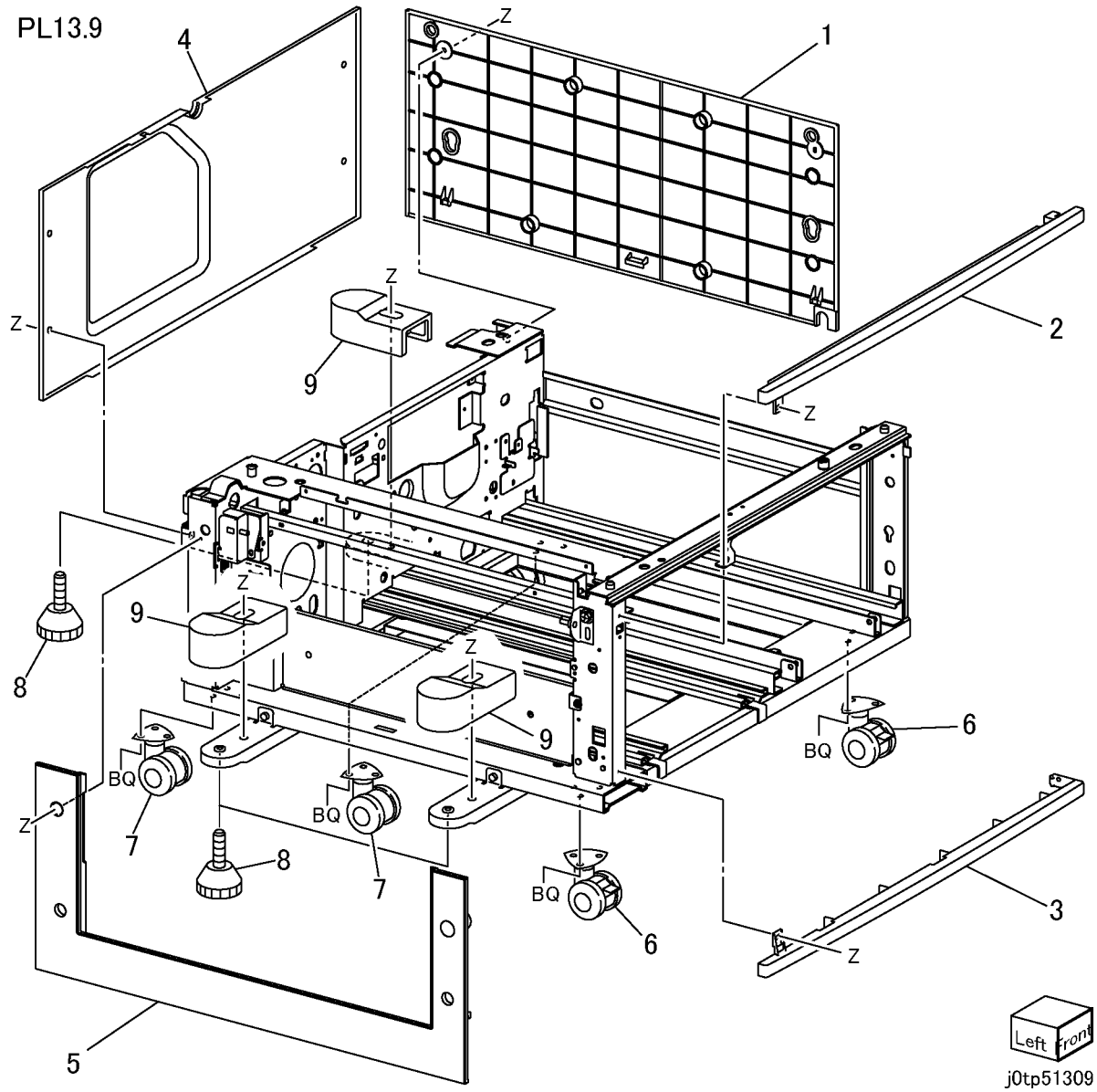
PL 13.8 Electrical-Tandem Tray

Item	Part	Description
1	–	Gear Assembly (Tray 3) (Not Spared)
2	–	Gear Assembly (Tray 4) (Not Spared)
3	007K89301	Tandem Tray Module Takeaway Motor Assembly (Item 20-23)(28CPM Model)
–	007K93800	Tandem Tray Module Takeaway Motor Assembly (Item 20-23)(33CPM Model)
4	–	Gear (22T/40T) (Not Spared)
5	160K97456	Tandem Tray Module PWB(28CPM Model)(REP 13.8.1)
–	960K05030	Tandem Tray Module PWB(33CPM Model)(REP 13.8.1)
6	–	Bracket (Not Spared)
7	121K31530	Tandem Tray Module Takeaway Roll Clutch
8	–	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	–	Bracket Assembly (Not Spared)
17	–	Bearing (Not Spared)
18	–	Gasket (Not Spared)
19	–	Wire Harness (Not Spared)
20	–	Bracket (Not Spared)
21	–	Bracket (P/O PL 13.8 Item 3)
22	–	Tanden Tray Module Takeaway Motor (28CPM Model) (P/O PL 13.8 Item 3)
–	127K48490	Tanden Tray Module Takeaway Motor (33CPM Model)
23	–	Gear (36T/72T)(28CPM model) (P/O PL 13.8 Item 3)
–	–	Gear (50T)(33CPM model) (P/O PL 13.8 Item 3)



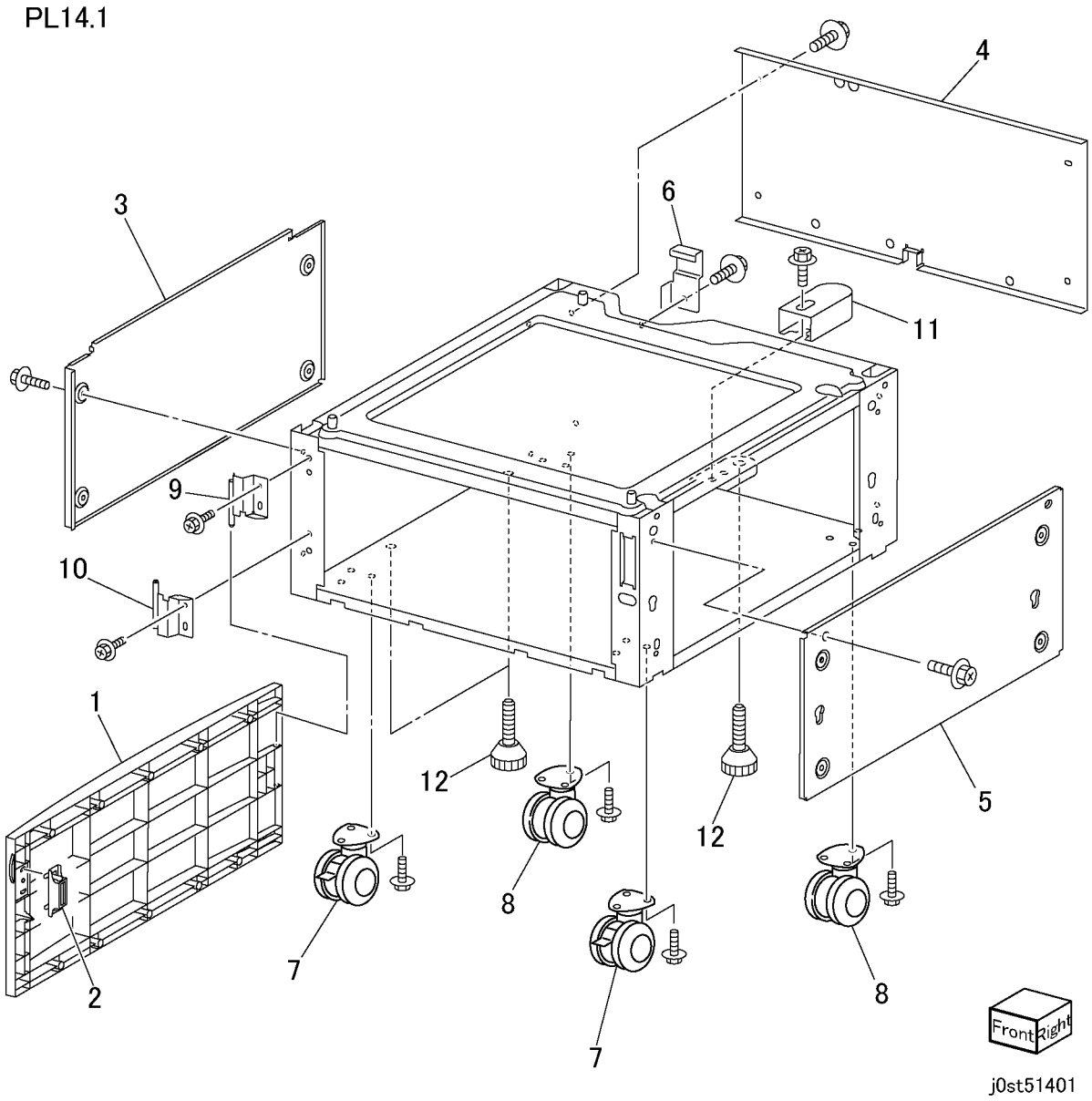
PL 13.9 Cover-Tandem Tray

Item	Part	Description
1	802E54750	Right Cover
2	–	Top Cover (Not Spared)
3	–	Foot Cover (Not Spared)
4	802E54771	Rear Cover
5	802E54762	Left Lower Cover
6	–	Caster (S) (Not Spared)
7	–	Caster (Not Spared)
8	–	Foot (Not Spared)
9	–	Foot Cover (Not Spared)



PL 14.1 Mobile Stand

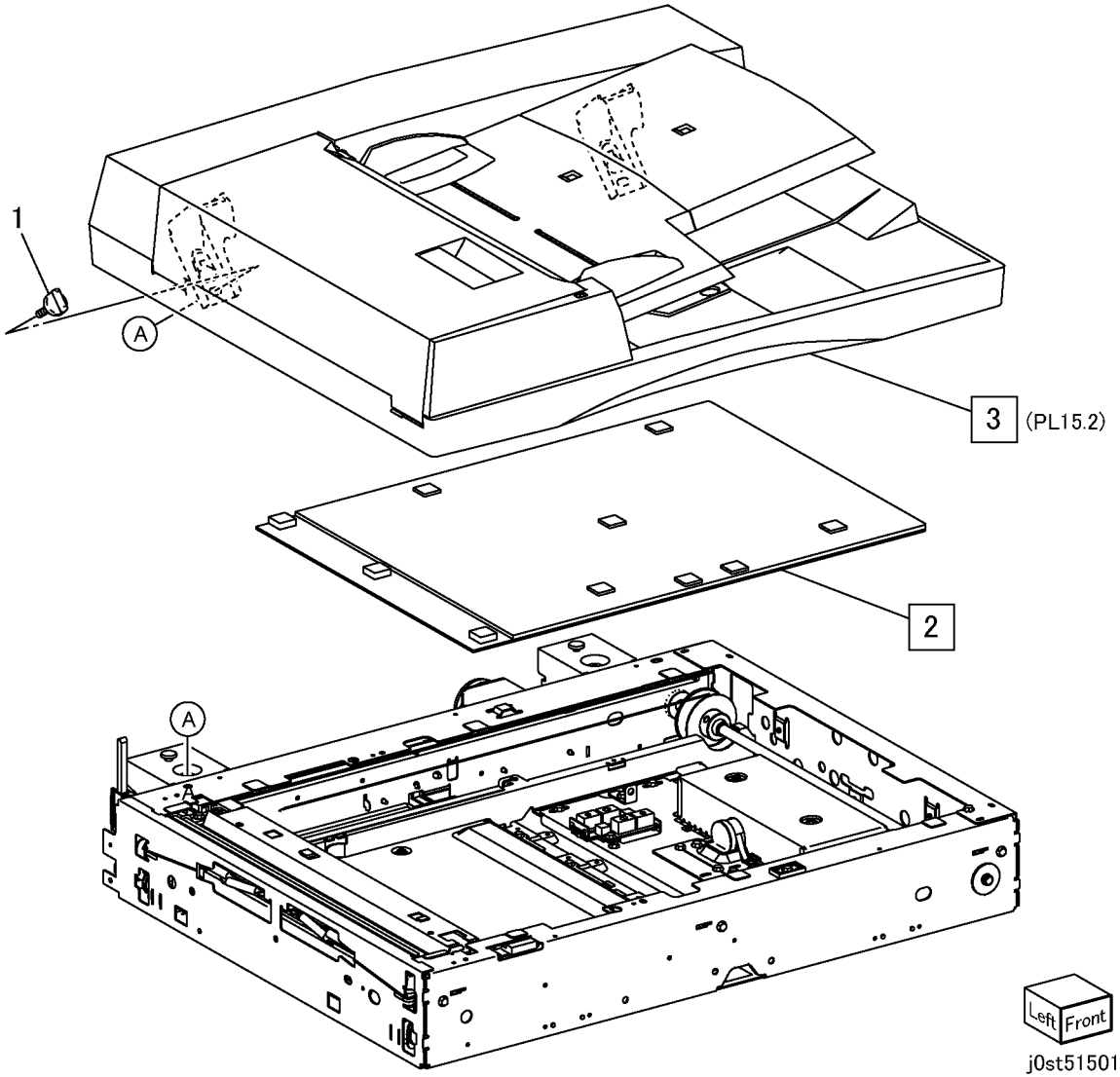
Item	Part	Description
1	–	Front Cover (Not Spared)
2	–	Magnet (Not Spared)
3	–	Left Cover (Not Spared)
4	–	Rear Cover (Not Spared)
5	–	Right Cover (Not Spared)
6	–	Bracket (Not Spared)
7	–	Caster (s) (Not Spared)
8	–	Caster (Not Spared)
9	–	Upper Hinge (Not Spared)
10	–	Lower Hinge (Not Spared)
11	–	Foot Cover (Not Spared)
12	–	Foot (Not Spared)



PL 15.1 DADF Accessory

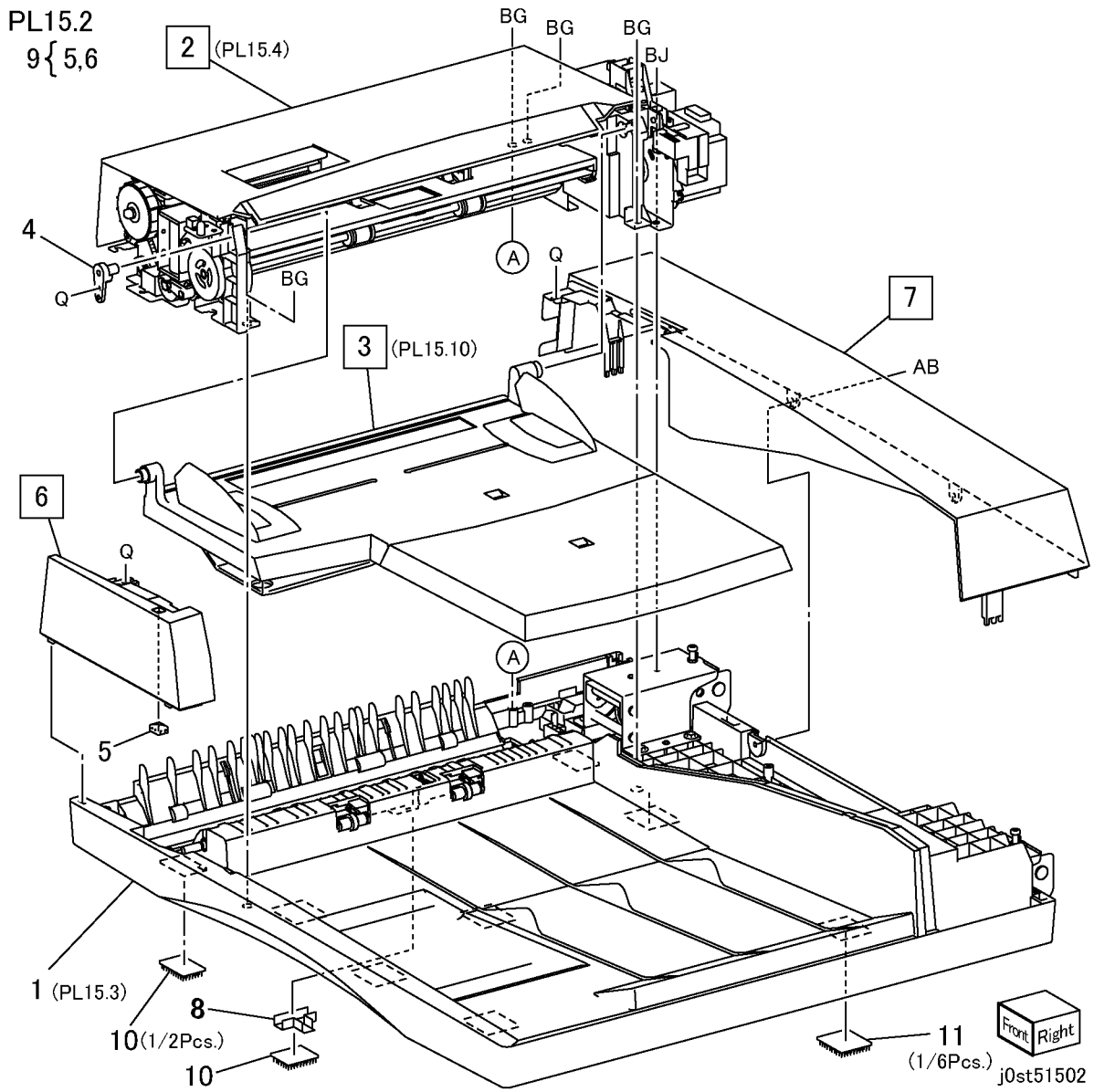
Item	Part	Description
1	–	Knob Screw (Not Spared)
2	004K02144	DADF Platen Cushion (REP 15.1.2)
3	059K31410	DADF (with Item2 without PL 15.3 Item 31) (PL 15.2) (REP 15.1.1)

PL15.1



PL 15.2 DADF Component, Cover

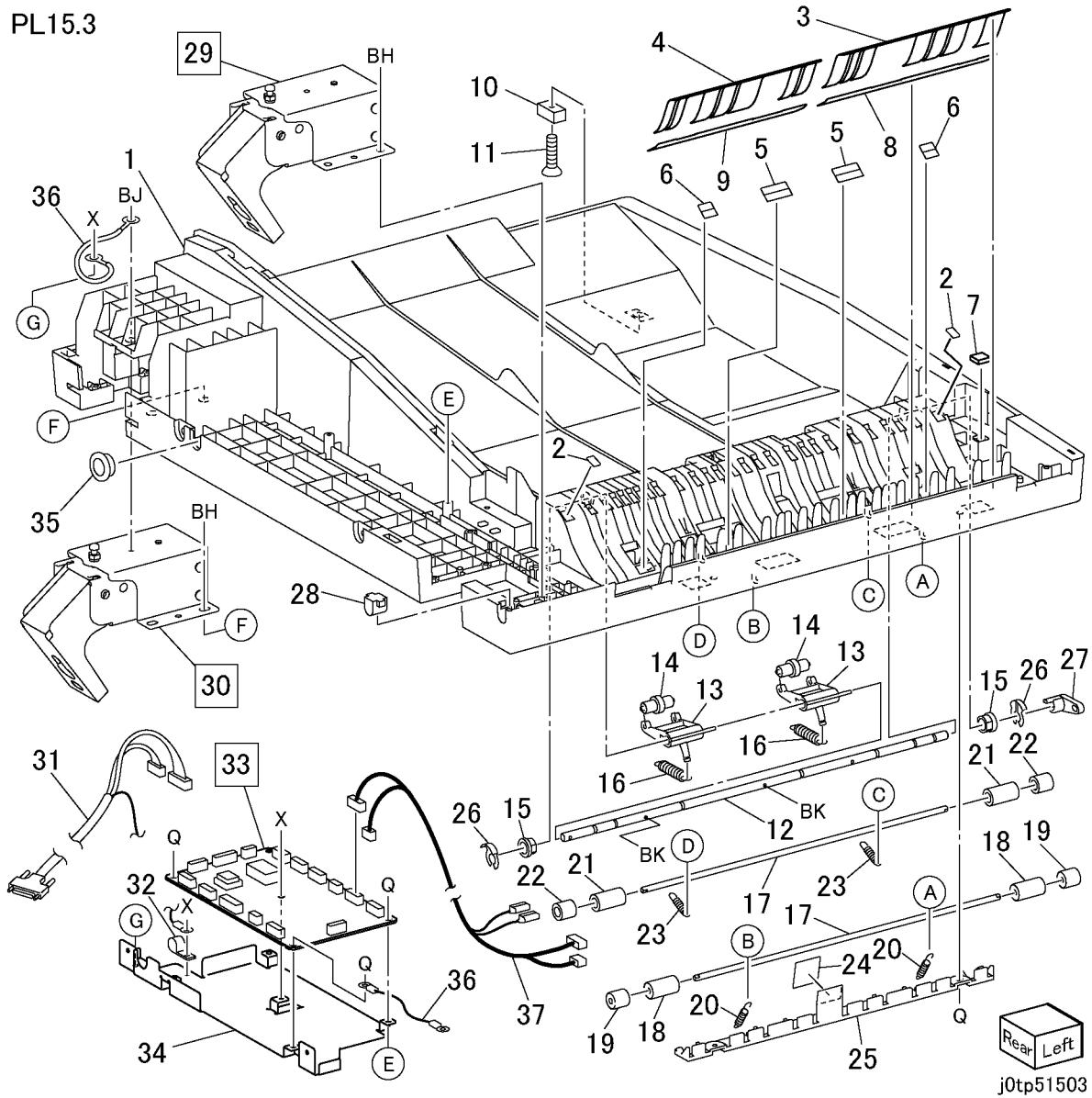
Item	Part	Description
1	801K05633	DADF Base Cover (without Counter Balance:PL 15.3 Item 29, PL 15.3 Item 30 DADF PWB:PL 15.3 Item 33) (PL 15.3)
2	–	DADF Feeder Assembly (PL 15.4) (REP 15.2.2) (P/O PL 15.1 Item 3)
3	050K49716	DADF Document Tray (PL 15.10) (REP 15.2.1)
4	–	Tray Holder (P/O PL 15.1 Item 3)
5	–	LED Cap (P/O PL 15.1 Item 3)
6	802E57292	DADF Front Cover (REP 15.2.3)
7	802E57441	DADF Rear Cover (REP 15.2.4)
8	–	Stamp Solenoid Connector Holder (P/O PL 15.1 Item 3)
9	–	DADF Front Cover (Not Spared)
10	–	Velcro Fastening (P/O PL 15.1 Item 3)
11	–	Velcro Fastening (P/O PL 15.2 Item 1)



PL 15.3 DADF Base Cover

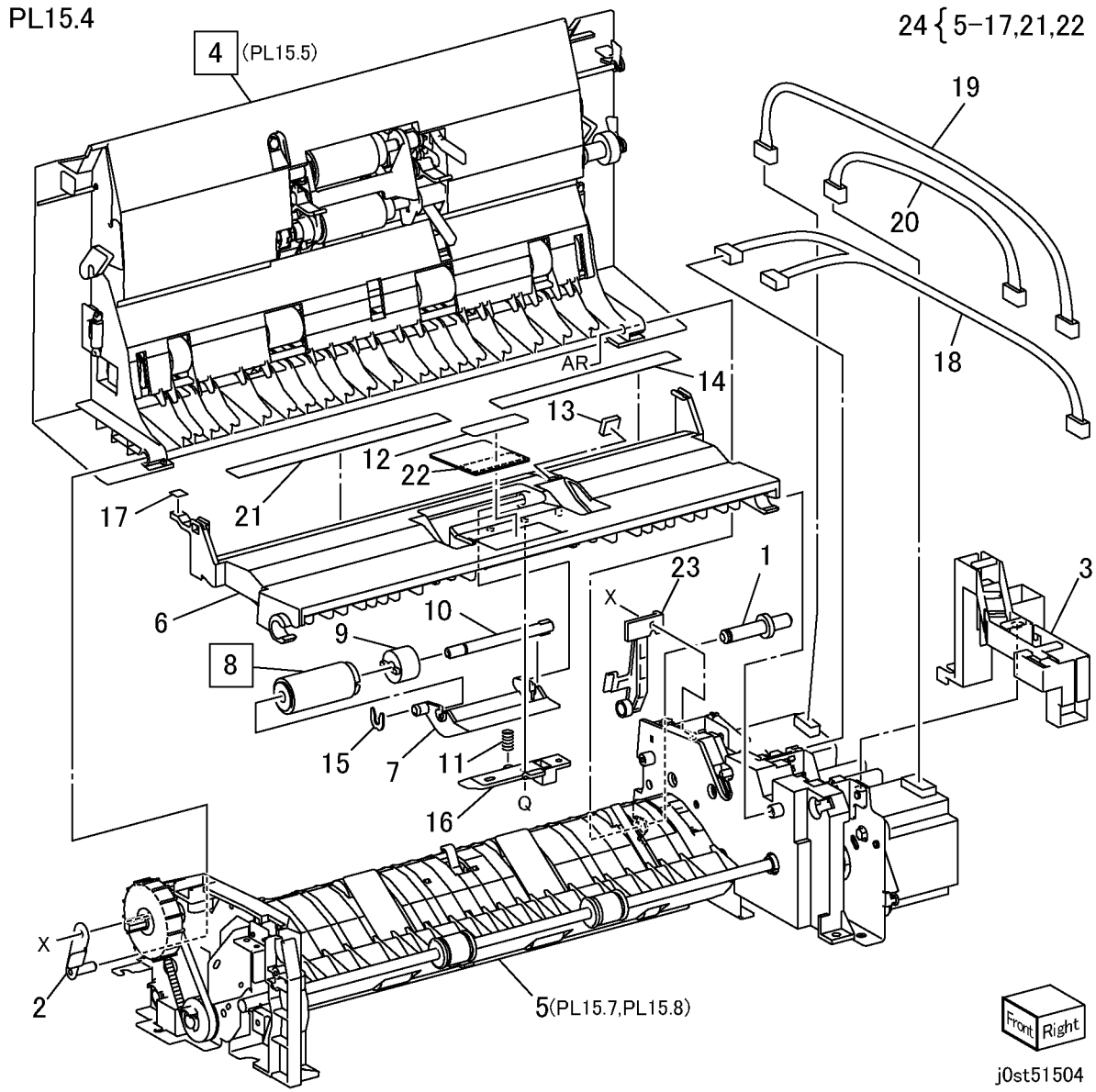
Component

Item	Part	Description
1	–	DADF Base Cover (P/O PL 15.2 Item 1)
2	–	Gate Pad (P/O PL 15.2 Item 1)
3	–	Seal (Chute:Front) (P/O PL 15.2 Item 1)
4	–	Seal (Chute:Rear) (P/O PL 15.2 Item 1)
5	–	Seal (Out Roll) (P/O PL 15.2 Item 1)
6	–	Seal (Out Roll) (P/O PL 15.2 Item 1)
7	–	Cushion (Solenoid) (P/O PL 15.2 Item 1)
8	–	Seal (Registration:Front) (P/O PL 15.2 Item 1)
9	–	Seal (Registration:Rear) (P/O PL 15.2 Item 1)
10	–	Magnet (Interlock) (Install with the white paint on N side facing outward) (P/O PL 15.2 Item 1)
11	–	Tapping Screw (P/O PL 15.2 Item 1)
12	–	Shaft (P/O PL 15.2 Item 1)
13	–	Holder (P/O PL 15.2 Item 1)
14	–	Pinch Roll (Exit) (P/O PL 15.2 Item 1)
15	–	Bearing (P/O PL 15.2 Item 1)
16	–	Spring (P/O PL 15.2 Item 1)
17	–	Shaft (P/O PL 15.2 Item 1)
18	–	Pinch Roll (Registration:Plastics) (P/O PL 15.2 Item 1)
19	–	Pinch Roll (Registration:Plastics) (P/O PL 15.2 Item 1)
20	–	Spring (Length:20mm) (Marking for identification) (P/O PL 15.2 Item 1)
21	–	Pinch Roll (Out Roll:Rubber) (P/O PL 15.2 Item 1)
22	–	Pinch Roll (Out Roll:Rubber) (P/O PL 15.2 Item 1)
23	–	Spring (Length:17mm) (P/O PL 15.2 Item 1)
24	–	Pad (Sensor) (P/O PL 15.2 Item 1)
25	–	Cover (P/O PL 15.2 Item 1)
26	028E94260	KL-Clip
27	–	Lever (Solenoid) (P/O PL 15.2 Item 1)
28	–	Cap (P/O PL 15.2 Item 1)
29	036K91551	Left Counter Balance (Panel Pressure Strong) (REP 15.3.2)
30	036K91561	Right Counter Balance (Panel Pressure Weak) (REP 15.3.3)
31	117E21621	IIT-DADF Cable
32	–	Clamp (P/O PL 15.2 Item 1)
33	160K97876	DADF PWB (REP 15.3.1)
34	–	PWB Bracket (P/O PL 15.2 Item 1)
35	–	Bush (P/O PL 15.2 Item 1)
36	–	Earth Wire (P/O PL 15.2 Item 1)
37	962K19790	Wire Harness (Feeder Front)



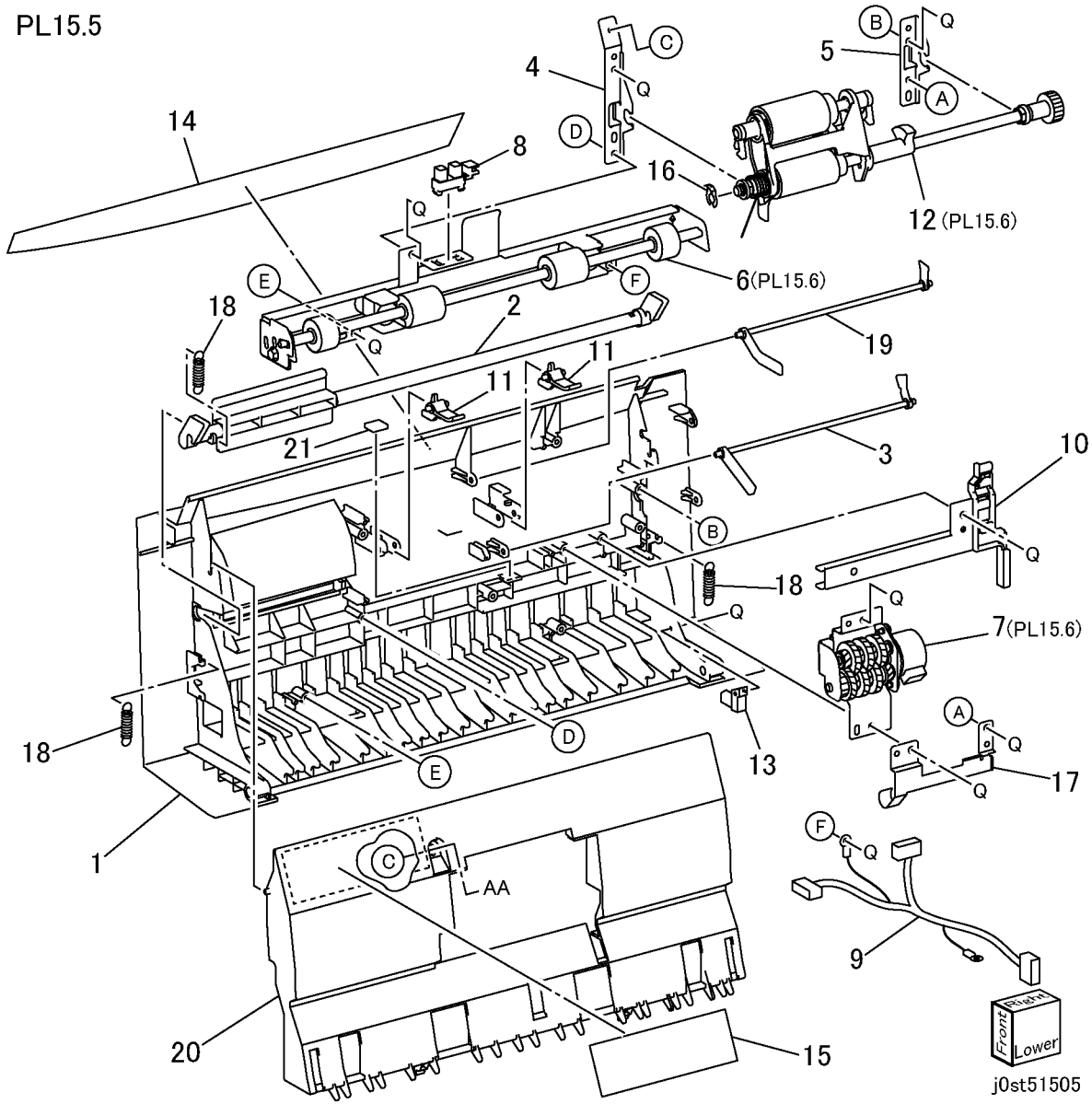
PL 15.4 DADF Feeder Component

Item	Part	Description
1	–	Stud (P/O PL 15.2 Item 2)
2	–	Stud Bracket (P/O PL 15.2 Item 2)
3	–	Harness Guide (P/O PL 15.2 Item 2)
4	059K36724	Top Cover (PL 15.5)
5	–	DADF Feeder (PL 15.7,PL 15.8) (P/O PL 15.4 Item 24)
6	–	Retard Roll Chute (P/O PL 15.4 Item 24)
7	–	Retard Roll Holder (P/O PL 15.4 Item 24)
8	–	Retard Roll (REP 15.4.1) (P/O PL 15.6 Item 30)
9	019K98770	Torque Limiter
10	–	Shaft (P/O PL 15.4 Item 24)
11	–	Spring (P/O PL 15.4 Item 24)
12	–	Pad (P/O PL 15.4 Item 24)
13	019K99070	Pad (Actuator)
14	–	Seal (Rear) (P/O PL 15.4 Item 24)
15	–	C-Clip (P/O PL 15.4 Item 24)
16	–	Guide (P/O PL 15.4 Item 24)
17	–	Label (P/O PL 15.4 Item 24)
18	962K19731	Wire Harness (Sensor)
19	962K19740	Wire Harness (Registration Motor)
20	962K19750	Wire Harness (Feed Motor)
21	–	Seal (Front) (P/O PL 15.4 Item 24)
22	–	Seal (Retard) (P/O PL 15.4 Item 24)
23	–	Guide (P/O PL 15.2 Item 2)
24	059K31315	DADF Feeder (With out Motor Unit: PL 15.8 Item 15)



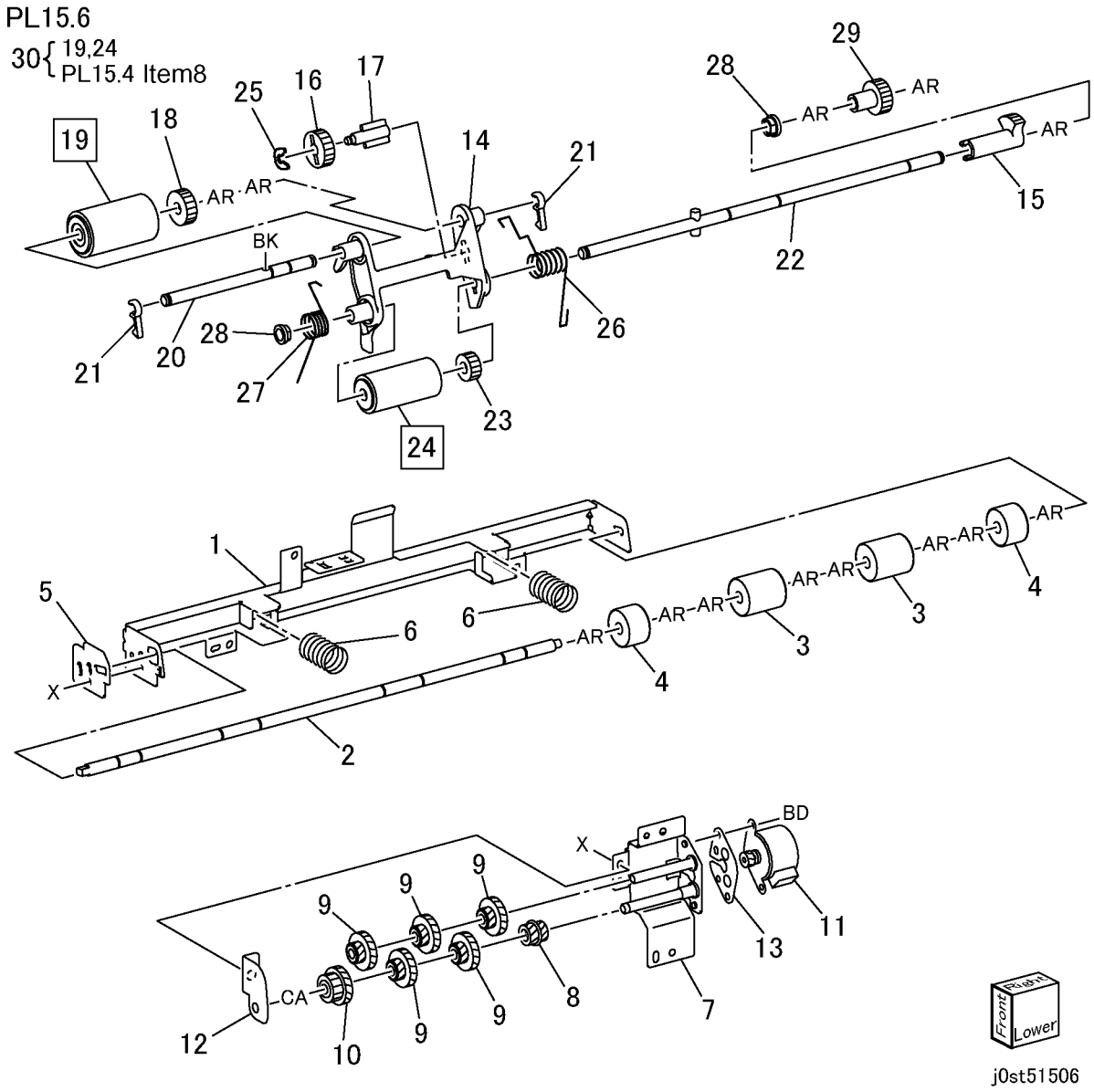
PL 15.5 Top Cover Component

Item	Part	Description
1	–	Top Cover (P/O PL 15.4 Item 4)
2	–	Handle Lever (P/O PL 15.4 Item 4)
3	–	Actuator (Feed Out) (P/O PL 15.4 Item 4)
4	–	Bracket (P/O PL 15.4 Item 4)
5	–	Bracket (P/O PL 15.4 Item 4)
6	059K31290	Takeaway Pinch Roll (PL 15.6)
7	127K38410	DADF Nudger Motor (PL 15.6)
8	930W00111	DADF Nudger Sensor
9	962K19703	Wire Harness
10	–	Harness Guide (P/O PL 15.4 Item 4)
11	–	Set Guide (P/O PL 15.4 Item 4)
12	059K31263	Nudger/Feed Roll Assembly (PL 15.6)
13	–	Harness Guide (P/O PL 15.4 Item 4)
14	–	Label (Size) (P/O PL 15.4 Item 4)
15	–	Label (Jam Clear) (P/O PL 15.4 Item 4)
16	028E94260	KL-Clip
17	–	Plate Spring (P/O PL 15.4 Item 4)
18	–	Spring (P/O PL 15.4 Item 4)
19	–	Actuator (Set) (P/O PL 15.4 Item 4)
20	–	Chute (P/O PL 15.4 Item 4)
21	–	Pad (P/O PL 15.4 Item 4)



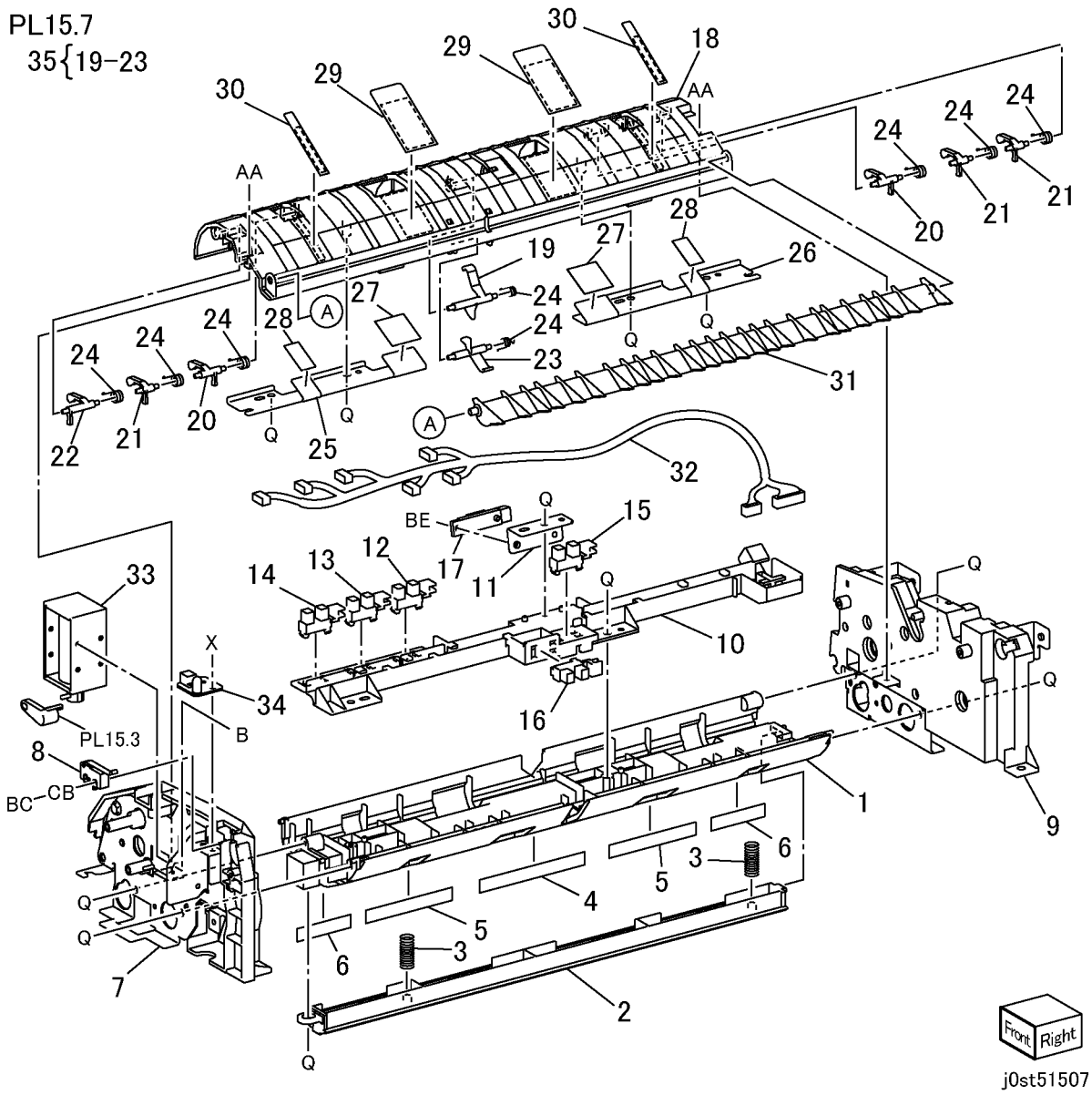
PL 15.6 Takeaway Pinch Roll, Nudger Motor, Nudger/Feed Roll

Item	Part	Description
1	–	Bracket (P/O PL 15.5 Item 6)
2	–	Shaft (Takeaway Pinch Roll) (P/O PL 15.5 Item 6)
3	–	Roll (P/O PL 15.5 Item 6)
4	–	Roll (P/O PL 15.5 Item 6)
5	–	Aligner Bracket (P/O PL 15.5 Item 6)
6	–	Spring (P/O PL 15.5 Item 6)
7	–	Gear Bracket (P/O PL 15.5 Item 7)
8	–	Gear (18T/19T) (P/O PL 15.5 Item 7)
9	–	Gear (36T/19T) (P/O PL 15.5 Item 7)
10	–	Gear (36T/16T) (P/O PL 15.5 Item 7)
11	–	DADF Nudger Motor (P/O PL 15.5 Item 7)
12	–	Bracket (P/O PL 15.5 Item 7)
13	–	Motor Bracket (P/O PL 15.5 Item 7)
14	–	Housing (P/O PL 15.5 Item 12)
15	–	Sector Gear (P/O PL 15.5 Item 12)
16	–	Gear (Idler:36T) (P/O PL 15.5 Item 12)
17	–	Shaft (P/O PL 15.5 Item 12)
18	–	Gear (Nudger:34T) (P/O PL 15.5 Item 12)
19	–	Nudger Roll (REP 15.6.1) (P/O PL 15.6 Item 30)
20	–	Shaft (Nudger) (P/O PL 15.5 Item 12)
21	–	Set Gate (P/O PL 15.5 Item 12)
22	–	Shaft (Feed) (P/O PL 15.5 Item 12)
23	807E00550	Gear (Feed:26T)
24	–	Feed Roll (REP 15.6.1) (P/O PL 15.6 Item 30)
25	–	C-Clip (P/O PL 15.5 Item 12)
26	–	Spring (P/O PL 15.5 Item 12)
27	–	Spring (P/O PL 15.5 Item 12)
28	–	Bearing (P/O PL 15.5 Item 12)
29	007K88751	Gear
30	604K20760	DADF Roll Kit (Feed/Nudger/ Retard)



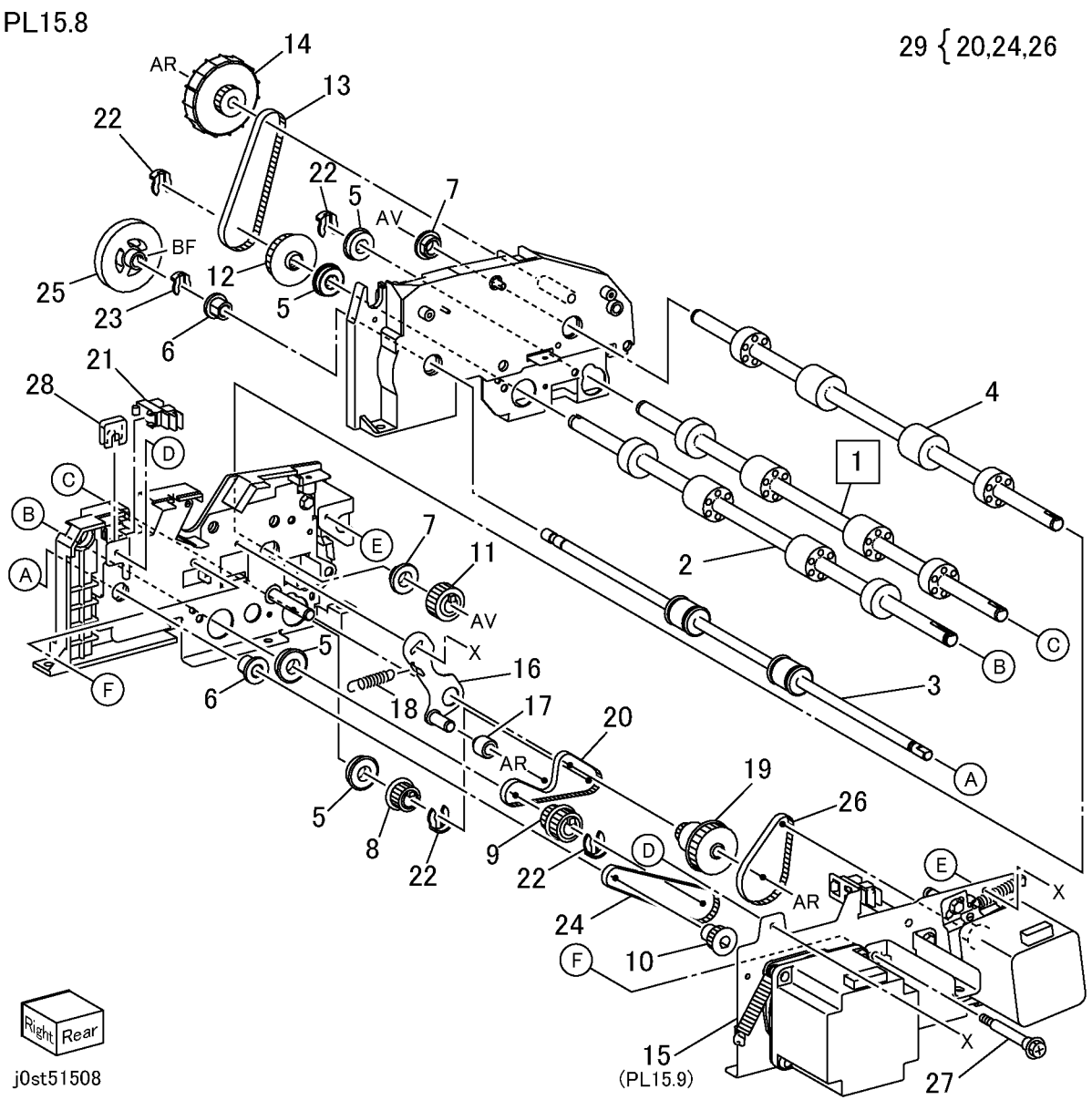
PL 15.7 DADF Feeder-Chute

Item	Part	Description
1	–	Lower Chute (P/O PL 15.4 Item 5)
2	–	Chute (Scan Position) (P/O PL 15.4 Item 5)
3	–	Spring (P/O PL 15.4 Item 5)
4	–	Seal (P/O PL 15.4 Item 5)
5	–	Seal (P/O PL 15.4 Item 5)
6	–	Seal (P/O PL 15.4 Item 5)
7	–	Frame (Front) (P/O PL 15.4 Item 5)
8	110K11981	DADF Interlock Switch
9	–	Frame (Rear) (P/O PL 15.4 Item 5)
10	–	Sensor Guide (P/O PL 15.4 Item 5)
11	–	Sensor Bracket (P/O PL 15.4 Item 5)
12	930W00111	DADF APS 1 Sensor
13	930W00111	DADF APS 2 Sensor
14	930W00111	DADF APS 3 Sensor
15	930W00111	DADF Pre Registration Sensor
16	930W00111	DADF Invert Sensor
17	130E87400	Registration Sensor
18	–	Feeder Housing
19	–	Actuator (Pre Registration) (P/O PL 15.7 Item 35)
20	–	Actuator (APS 1) (P/O PL 15.7 Item 35)
21	–	Actuator (APS 2) (P/O PL 15.7 Item 35)
22	–	Actuator (APS 3) (P/O PL 15.7 Item 35)
23	–	Actuator (Invert) (P/O PL 15.7 Item 35)
24	–	Spring (P/O PL 15.4 Item 5)
25	–	Bracket (Front) (P/O PL 15.4 Item 5)
26	–	Bracket (Rear) (P/O PL 15.4 Item 5)
27	–	Eliminator (P/O PL 15.4 Item 5)
28	–	Eliminator (P/O PL 15.4 Item 5)
29	–	Seal (P/O PL 15.4 Item 5)
30	–	Seal (P/O PL 15.4 Item 5)
31	–	Invert Guide (P/O PL 15.4 Item 5)
32	962K19721	Wire Harness
33	121K31912	Exit Nip Release Solenoid
34	160K97600	DADF Document Set LED
35	604K20770	Actuator Kit (Pre Registration/ APS1-3/Invert)



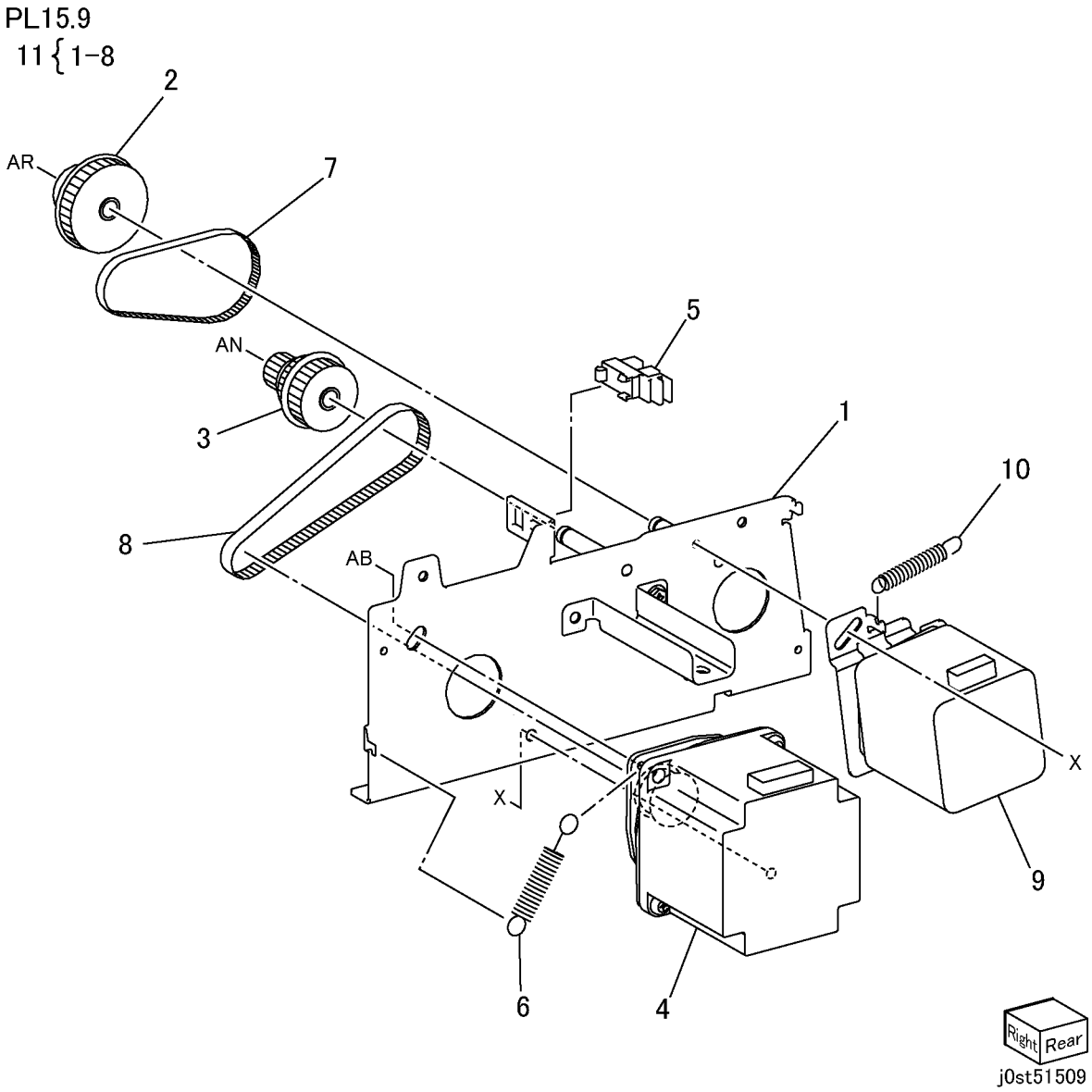
PL 15.8 DADF Feeder-Roll

Item	Part	Description
1	–	Registration Roll (REP 15.8.1) (P/O PL 15.4 Item 5)
2	–	Out Roll (P/O PL 15.4 Item 5)
3	–	Exit Roll (P/O PL 15.4 Item 5)
4	–	Takeaway Roll (P/O PL 15.4 Item 5)
5	–	Ball Bearing (P/O PL 15.4 Item 5)
6	–	Bearing (L:10mm) (P/O PL 15.4 Item 5)
7	–	Bearing (L:6mm) (P/O PL 15.4 Item 5)
8	–	Pulley (Registration) (P/O PL 15.4 Item 5)
9	–	Pulley (Out) (P/O PL 15.4 Item 5)
10	–	Pulley (Exit) (P/O PL 15.4 Item 5)
11	–	Gear (Takeaway) (P/O PL 15.4 Item 5)
12	–	Pulley (Out) (P/O PL 15.4 Item 5)
13	–	Belt (P/O PL 15.4 Item 5)
14	–	Handle Pulley (P/O PL 15.4 Item 5)
15	–	Motor Unit (PL 15.9) (P/O PL 15.1 Item 3)
16	–	Tension Bracket (P/O PL 15.4 Item 5)
17	–	Tension Roll (P/O PL 15.4 Item 5)
18	–	Spring (P/O PL 15.4 Item 5)
19	–	Pulley (P/O PL 15.4 Item 5)
20	–	Belt (P/O PL 15.8 Item 29)
21	930W00111	DADF Document Set Sensor
22	–	KL-Clip (P/O PL 15.4 Item 5)
23	–	KL-Clip (P/O PL 15.4 Item 5)
24	–	Belt (P/O PL 15.8 Item 29)
25	–	Disk (P/O PL 15.2 Item 2)
26	–	Belt (P/O PL 15.8 Item 29)
27	–	Stud Screw (P/O PL 15.2 Item 2)
28	–	Guide (P/O PL 15.2 Item 2)
29	604K20780	Belt Kit



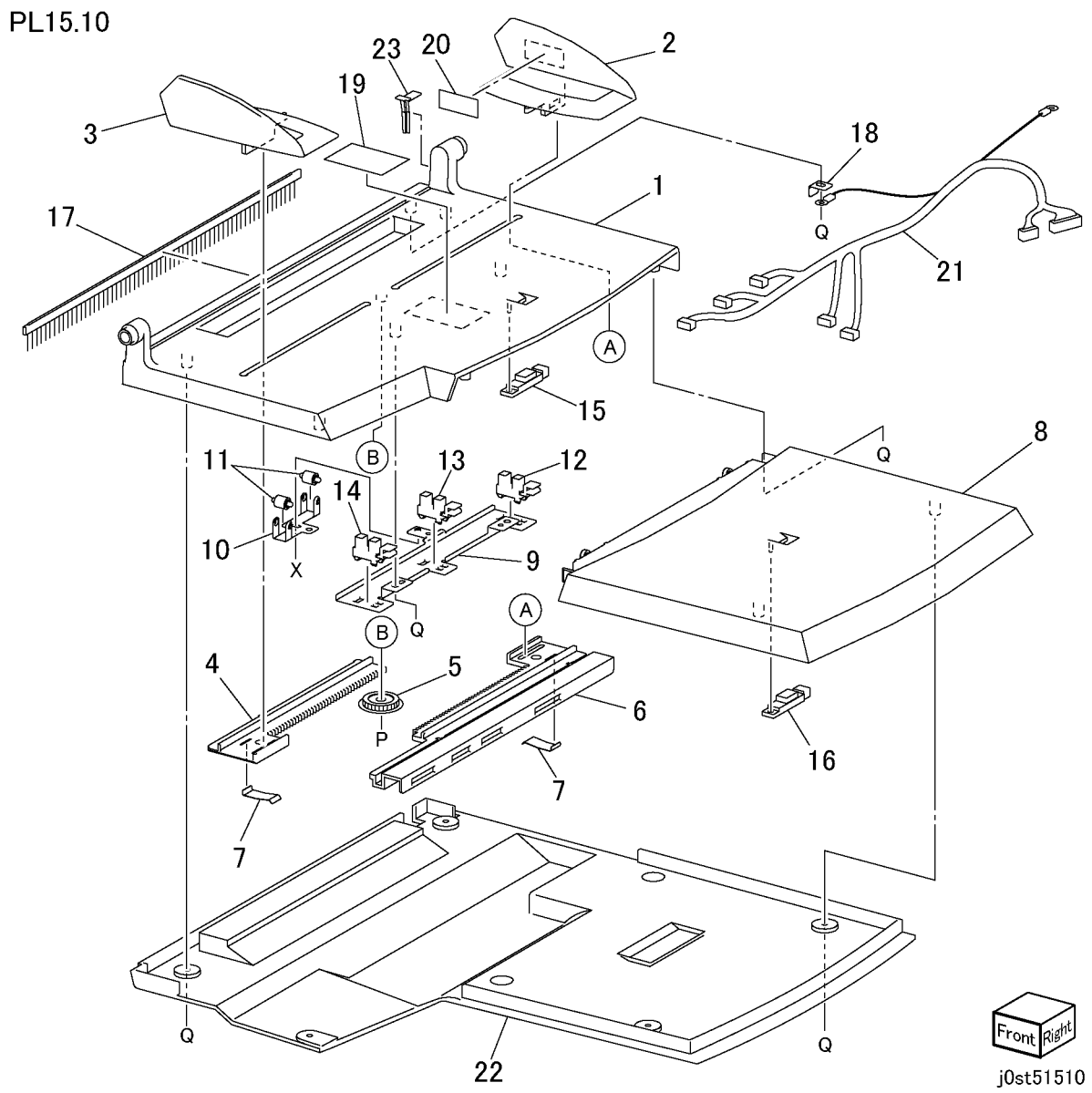
PL 15.9 Motor Unit

Item	Part	Description
1	–	Motor Bracket (P/O PL 15.9 Item 11)
2	–	Gear Pulley (20/50) (P/O PL 15.9 Item 11)
3	–	Gear Pulley (14/32/37) (P/O PL 15.9 Item 11)
4	127K38440	DADF Feed Motor
5	930W00111	DADF Feed Out Sensor
6	–	Spring (P/O PL 15.9 Item 11)
7	423W08055	Takeaway Belt (Width:4mm)
8	423W29955	Feed Belt (Width:6mm)
9	127K38460	DADF Registration Motor
10	809E50761	Spring
11	–	DADF Feed Motor Assembly (P/O PL 15.8 Item 15)



PL 15.10 DADF Document Tray

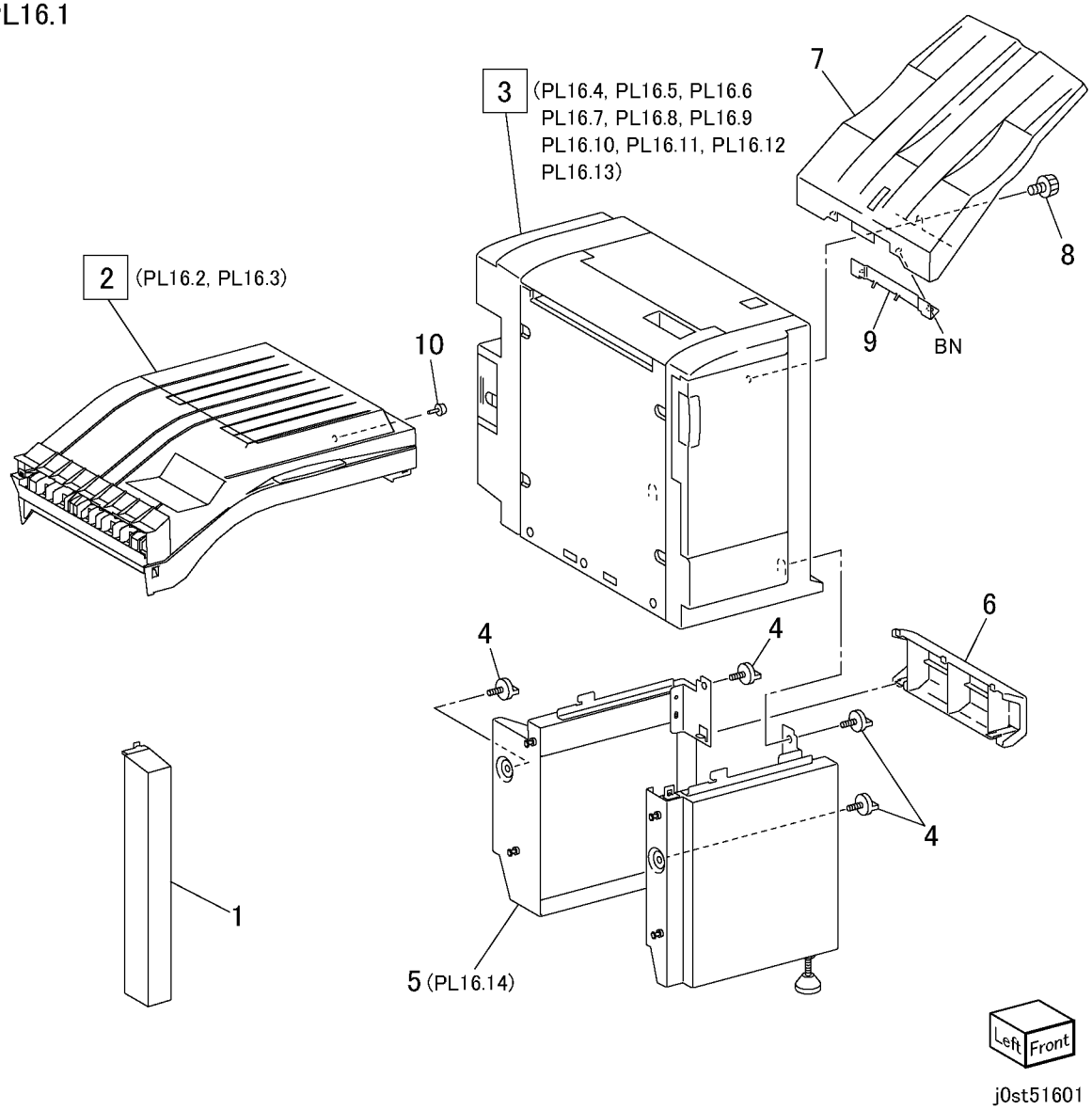
Item	Part	Description
1	–	Hinge Tray (P/O PL 15.2 Item 3)
2	–	Side Guide (Rear) (P/O PL 15.2 Item 3)
3	–	Side Guide (Front) (P/O PL 15.2 Item 3)
4	–	Rack Gear (P/O PL 15.2 Item 3)
5	–	Pinion Gear (P/O PL 15.2 Item 3)
6	120E22370	Rack Gear And Actuator
7	809E51860	Rack Spring
8	–	Tray Upper Cover (P/O PL 15.2 Item 3)
9	–	Sensor Bracket (P/O PL 15.2 Item 3)
10	–	Tray Spring (P/O PL 15.2 Item 3)
11	–	Roll (P/O PL 15.2 Item 3)
12	930W00111	DADF Tray Set Guide Sensor 1
13	930W00111	DADF Tray Set Guide Sensor 2
14	930W00111	DADF Tray Set Guide Sensor 3
15	130E87410	DADF Tray Size 1 Sensor
16	130E87410	DADF Tray Size 2 Sensor
17	105E06910	Eliminator
18	–	Earth Bracket (P/O PL 15.2 Item 3)
19	–	Label (Installation) (P/O PL 15.2 Item 3)
20	–	Label (Max) (P/O PL 15.2 Item 3)
21	962K19711	Tray Wire Harness
22	–	Tray Lower Cover (P/O PL 15.2 Item 3)
23	–	Harness Guide (P/O PL 15.2 Item 3)



PL 16.1 Finisher Unit

Item	Part	Description
1	–	Cover (Not Spared)
2	022K67720	H-Transport Assembly (PL 16.2,PL 16.3) (REP 16.1.1)
3	–	Staple Finisher (PL 16.4, PL 16.5, PL 16.6, PL 16.7, PL 16.8, PL 16.9, PL 16.10, PL 16.11, PL 16.12, PL 16.13) (REP 16.1.2) (Not Spared)
4	604K20790	Finisher Knob Kit (1Set:2)
5	–	Rack Assembly (PL 16.14) (Not Spared)
6	–	Right Cover (Not Spared)
7	050E19620	Stacker Tray
8	–	Screw (Not Spared)
9	–	Bracket (Not Spared)
10	–	Screw (Not Spared)

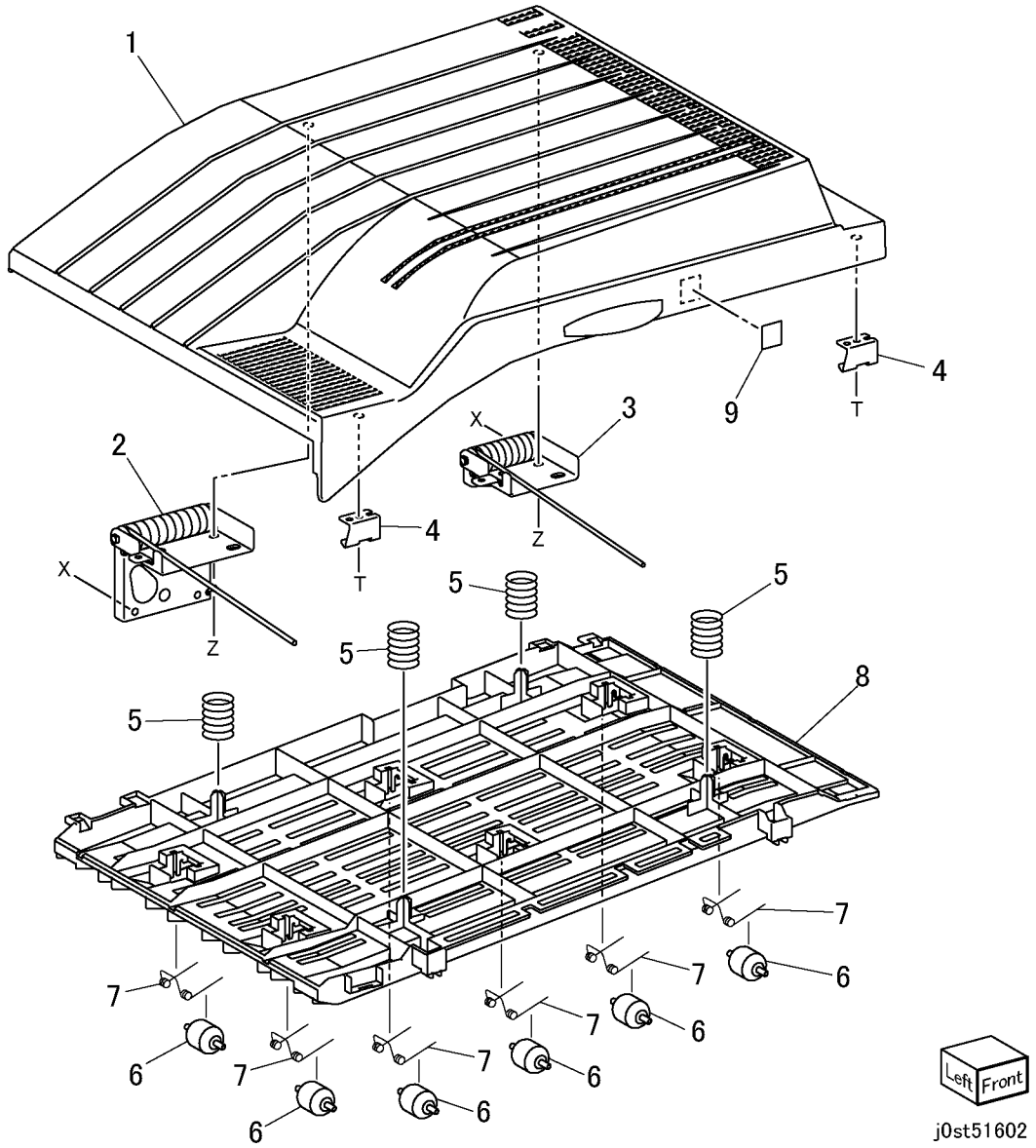
PL16.1



PL 16.2 H-Transport Assembly (1/2)

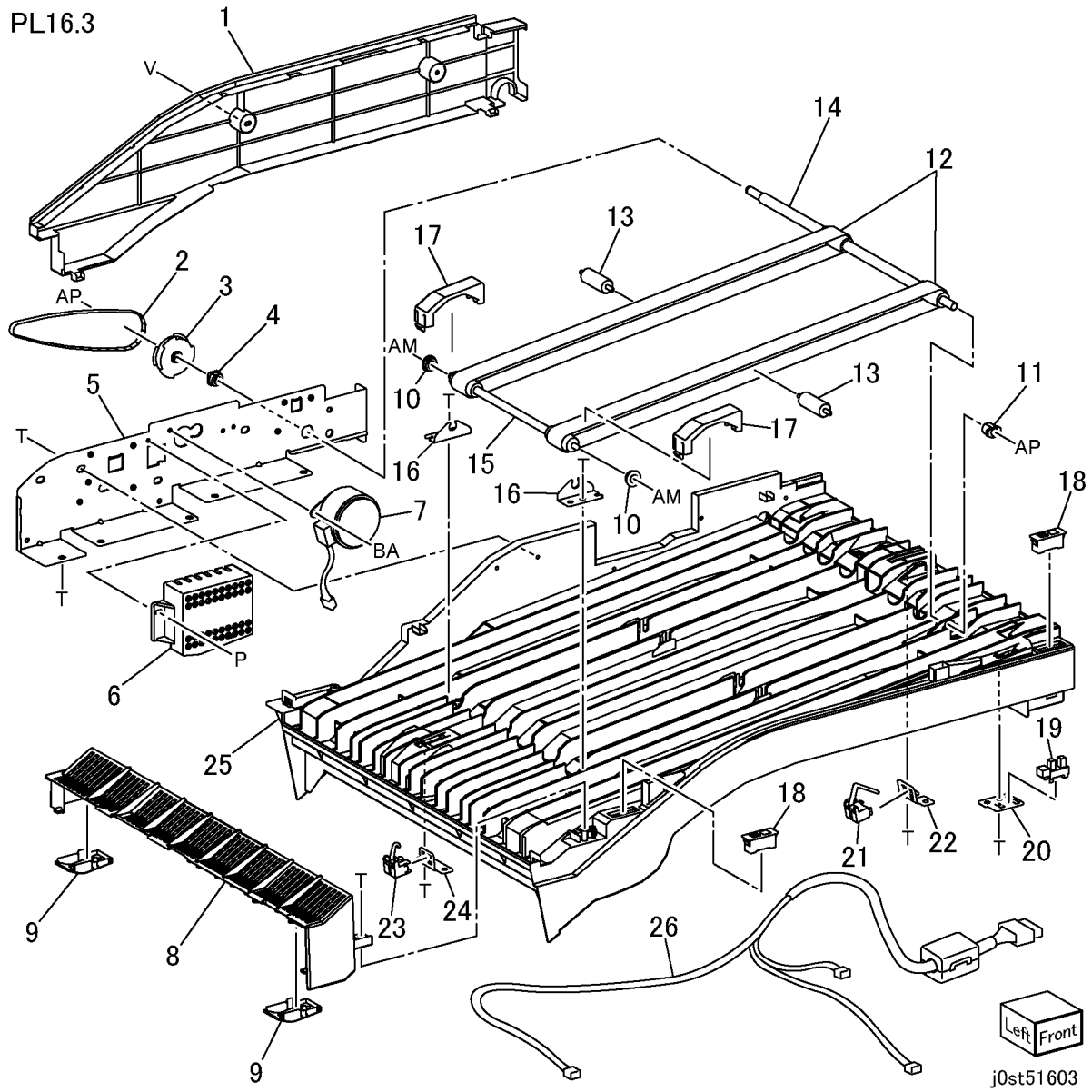
Item	Part	Description
1	–	Top Door (P/O PL 16.1 Item 2)
2	–	Hinge Assembly (Left) (P/O PL 16.1 Item 2)
3	–	Hinge Assembly (Right) (P/O PL 16.1 Item 2)
4	–	Bracket (P/O PL 16.1 Item 2)
5	–	Spring (P/O PL 16.1 Item 2)
6	–	Pinch Roll (P/O PL 16.1 Item 2)
7	–	Spring (P/O PL 16.1 Item 2)
8	–	Upper Chute (P/O PL 16.1 Item 2)
9	–	Label (P/O PL 16.1 Item 2)

PL16.2



PL 16.3 H-Transport Assembly (2/2)

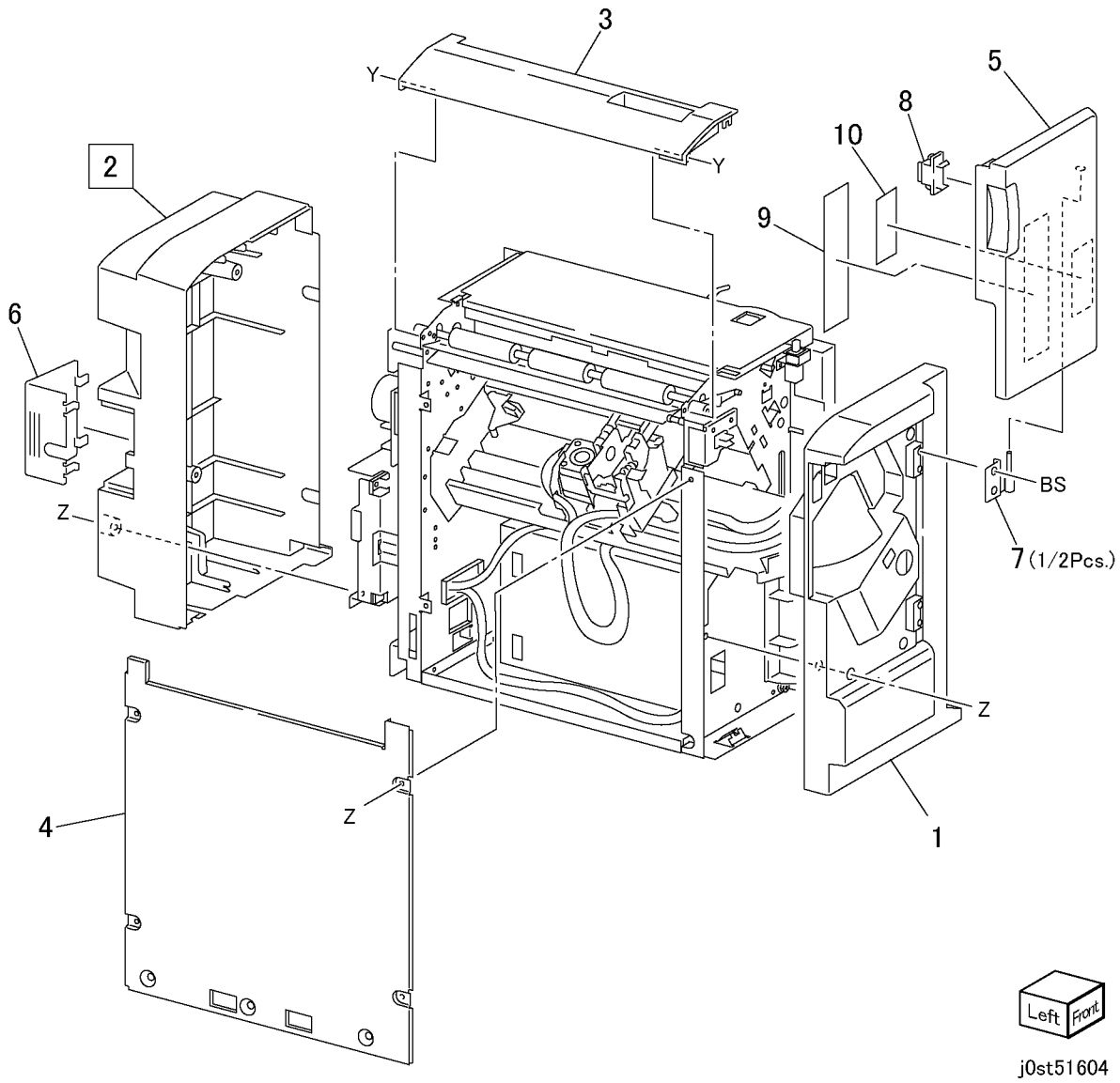
Item	Part	Description
1	–	Rear Cover (P/O PL 16.1 Item 2)
2	–	Belt (P/O PL 16.1 Item 2)
3	–	Pulley (P/O PL 16.1 Item 2)
4	–	Bearing (P/O PL 16.1 Item 2)
5	–	Bracket (P/O PL 16.1 Item 2)
6	–	Cover (P/O PL 16.1 Item 2)
7	127K39900	H-Transport Motor
8	–	Top Cover (P/O PL 16.1 Item 2)
9	–	Paper Guide (P/O PL 16.1 Item 2)
10	–	Bearing (P/O PL 16.1 Item 2)
11	–	Bearing (P/O PL 16.1 Item 2)
12	–	Belt (P/O PL 16.1 Item 2)
13	–	Roll (P/O PL 16.1 Item 2)
14	–	Shaft Assembly (Right) (P/O PL 16.1 Item 2)
15	–	Shaft Assembly (Left) (P/O PL 16.1 Item 2)
16	–	Bracket (P/O PL 16.1 Item 2)
17	–	Cover (P/O PL 16.1 Item 2)
18	–	Magnet (P/O PL 16.1 Item 2)
19	130K88780	H-Transport Interlock Sensor
20	–	Bracket (P/O PL 16.1 Item 2)
21	130K63280	H-Transport Exit Sensor
22	–	Bracket (P/O PL 16.1 Item 2)
23	130K88790	H-Transport Entrance Sensor
24	–	Bracket (P/O PL 16.1 Item 2)
25	–	Lower Chute (P/O PL 16.1 Item 2)
26	962K24360	Wire Harness



PL 16.4 Cover

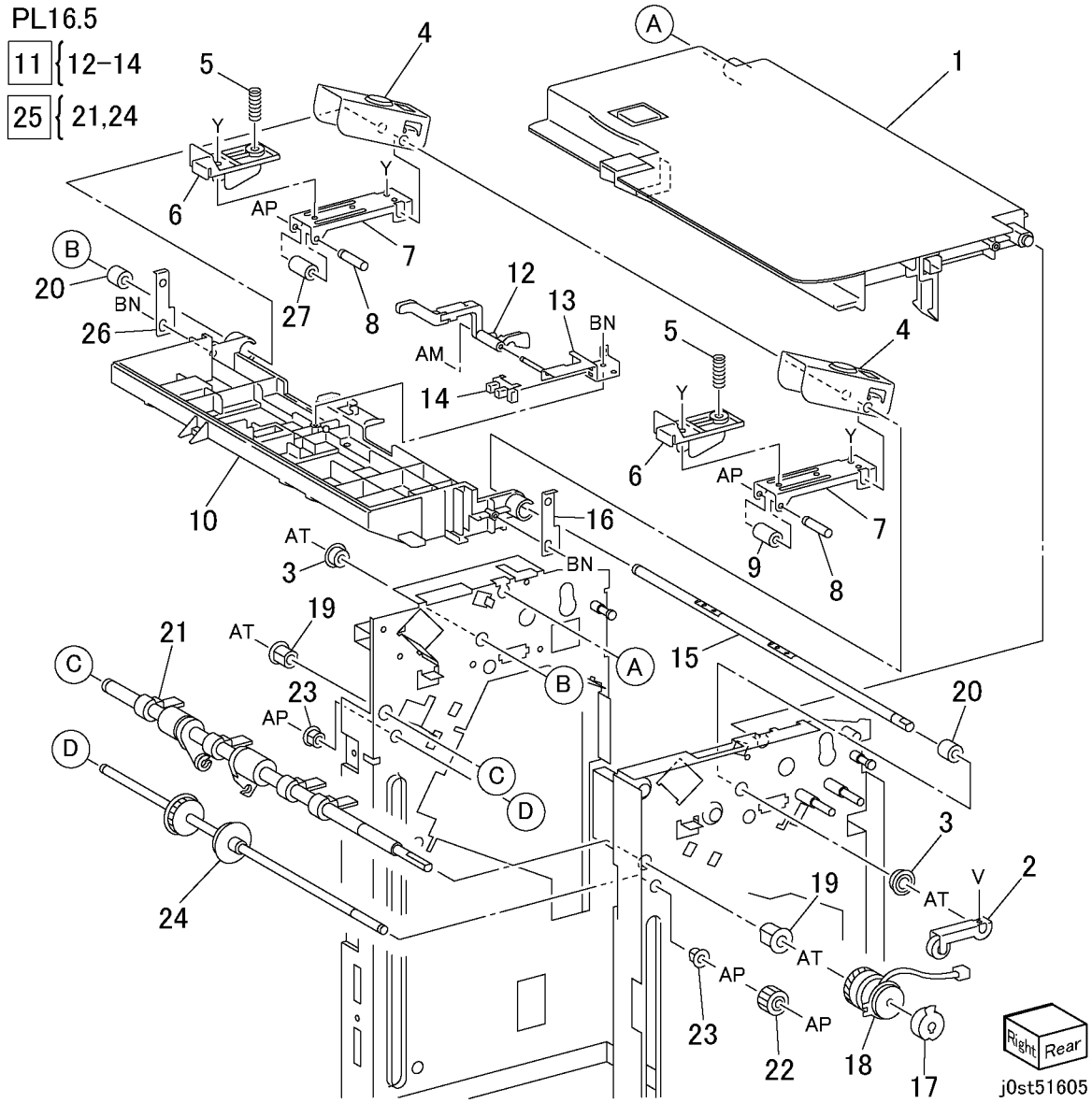
Item	Part	Description
1	802E28560	Front Cover
2	802E64390	Rear Cover (REP 16.4.2)
3	802E64400	Top Cover
4	802K65090	Left Cover
5	802E28550	Front Door
6	–	Left Panel (Not Spared)
7	–	Hinge (Not Spared)
8	–	Magnet (Not Spared)
9	–	Label (Not Spared)
10	–	Label (Not Spared)

PL16.4



PL 16.5 Top Open Cover and Eject Roll

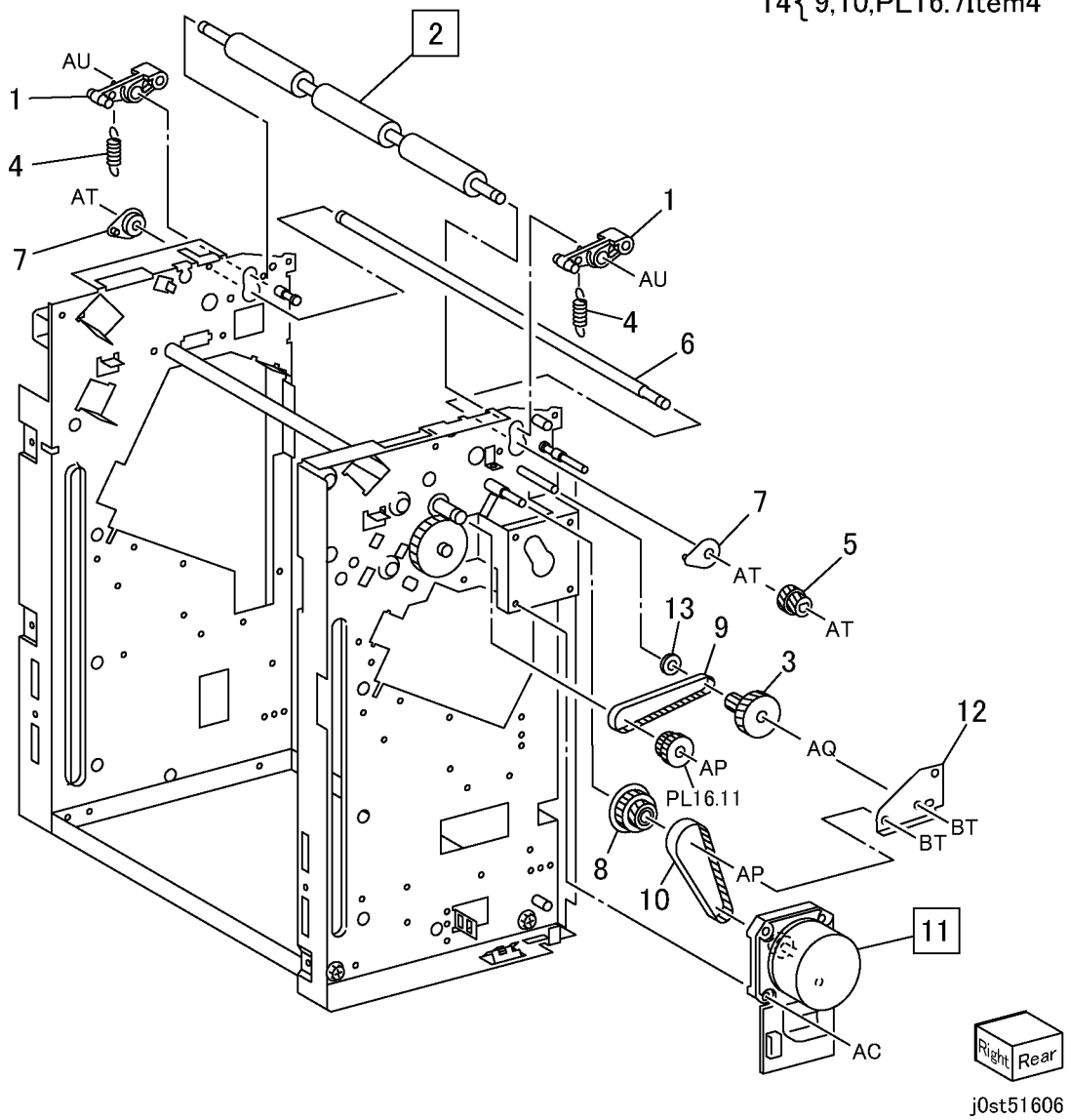
Item	Part	Description
1	802K28570	Top Open Cover Assembly
2	–	Arm Assembly (Not Spared)
3	–	Bearing (Not Spared)
4	–	Bracket (Not Spared)
5	–	Spring (Not Spared)
6	–	Support (Not Spared)
7	–	Bracket (Not Spared)
8	–	Shaft (Not Spared)
9	022K61480	Eject Pinch Roll
10	–	Eject Chute (Not Spared)
11	130K61920	Stack Height Sensor Assembly (REP 16.5.1)
12	–	Actuator (P/O PL 16.5 Item 11)
13	–	Bracket (P/O PL 16.5 Item 11)
14	130E82530	Stack Height Sensor (Not Spared)
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 16.5 Item 25)
22	007K86910	Gear (20T)
23	–	Bearing (Not Spared)
24	–	Eject Shaft (P/O PL 16.5 Item 25)
25	006K23710	Eject Roll Assembly (REP 16.5.2)
26	–	Link (Not Spared)
27	022K67800	Eject Pinch Roll (Front)



PL 16.6 Paper Transport (1/2)

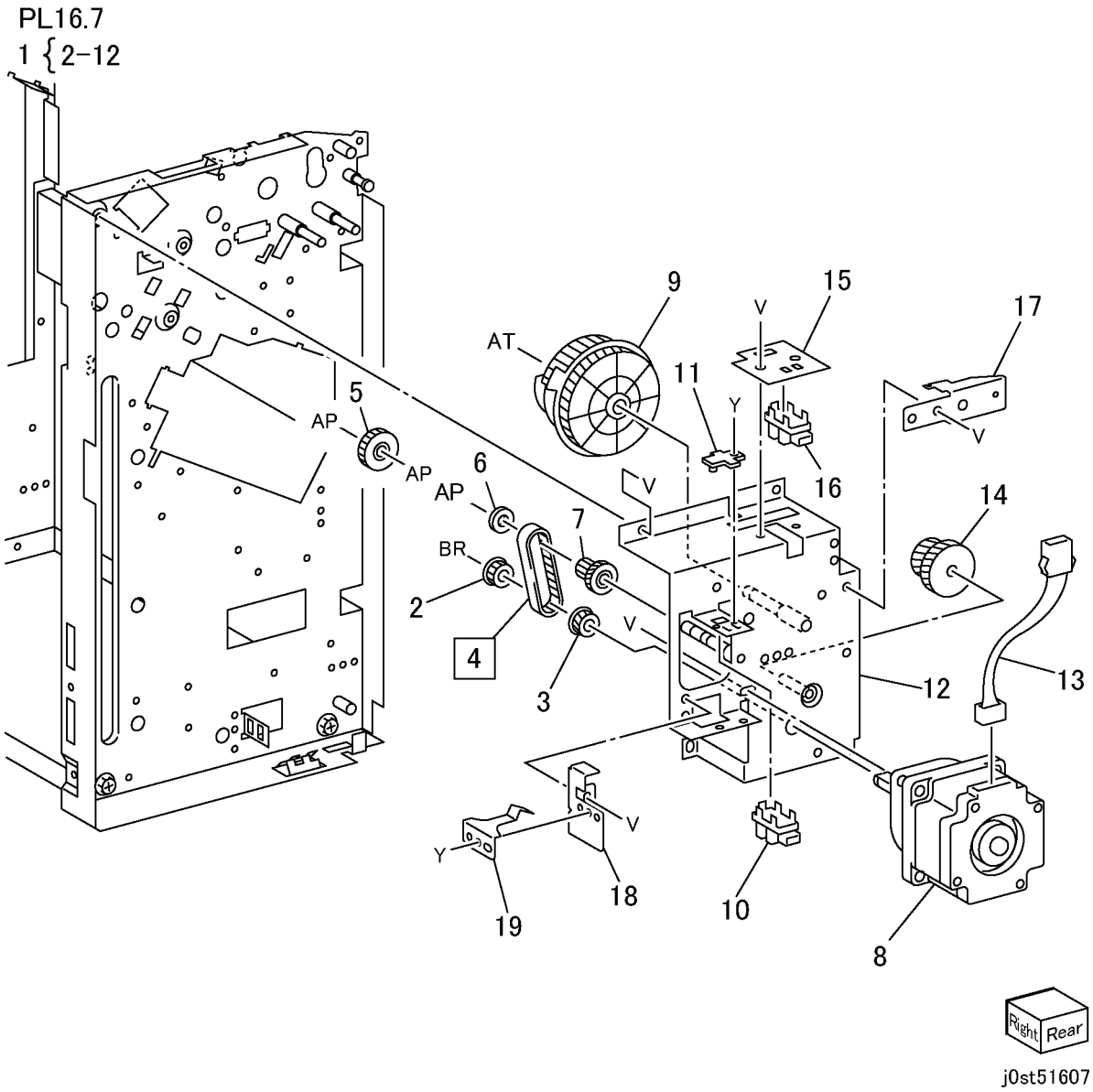
Item	Part	Description
1	–	Arm (Not Spared)
2	022K67450	Decurler Roll Assembly (REP 16.6.1)
3	–	Gear (40/20T) (Not Spared)
4	–	Spring (Not Spared)
5	–	Gear (18/21T) (Not Spared)
6	–	Shaft (Not Spared)
7	–	Bearing (Not Spared)
8	–	Gear (23/52T) (Not Spared)
9	–	Belt (P/O PL 16.6 Item 14)
10	–	Belt (P/O PL 16.6 Item 14)
11	127K32840	Finisher Drive Motor (REP 16.6.2)
12	–	Bracket (Not Spared)
13	–	Collar (Not Spared)
14	604K20490	Finisher Belt Kit

PL16.6



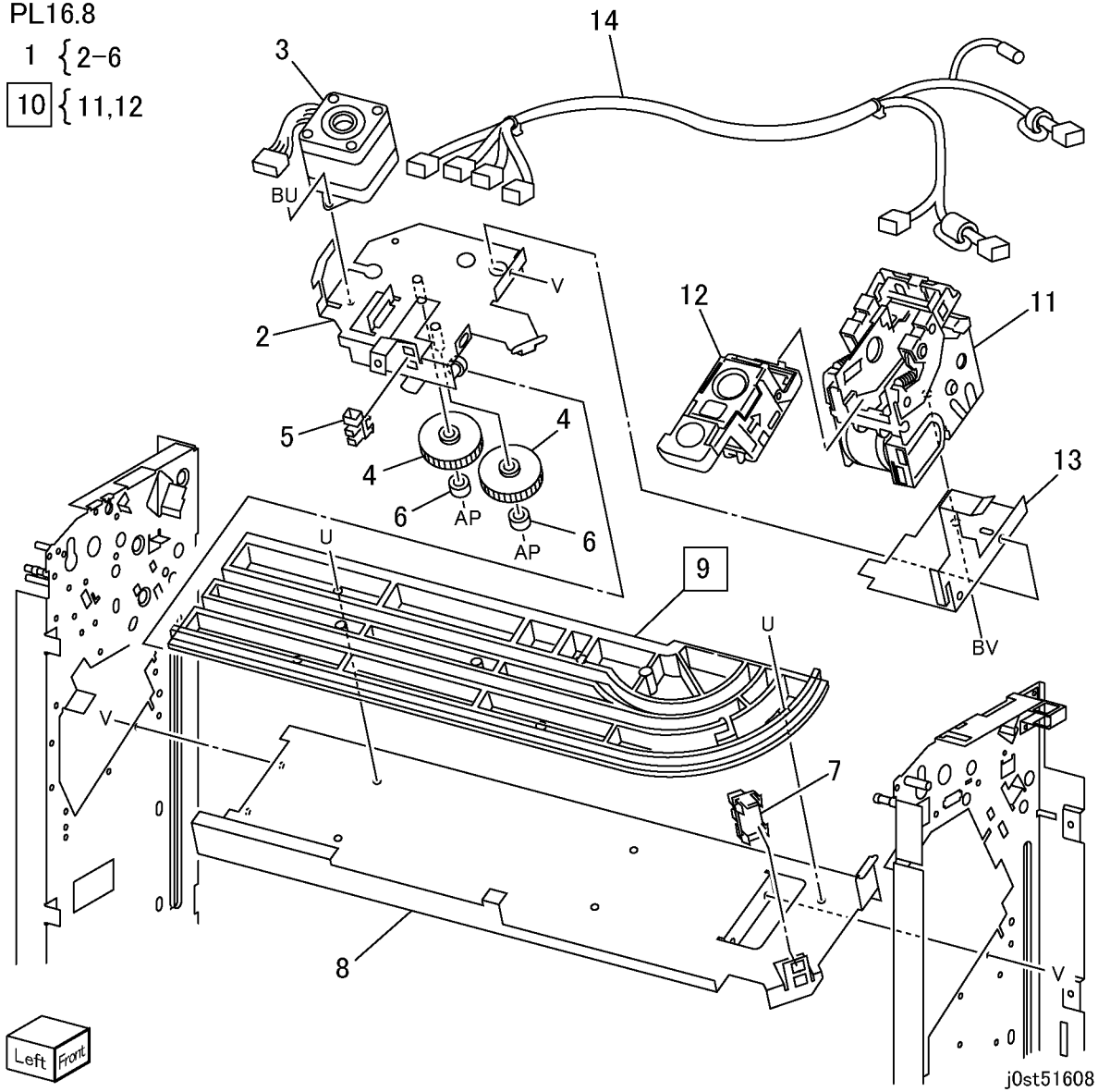
PL 16.7 Paper Transport (2/2)

Item	Part	Description
1	015K65440	Cam Bracket Assembly
2	020E34970	Pulley
3	–	Gear (15T) (P/O PL 16.7 Item 1)
4	–	Belt (REP 16.7.1) (P/O PL 16.6 Item 14)
5	–	Gear (30T) (P/O PL 16.7 Item 14)
6	–	Collar (P/O PL 16.7 Item 14)
7	–	Gear Pulley (P/O PL 16.7 Item 14)
8	127K39930	Eject Motor
9	007E67800	Cam Gear
10	130K88780	Set Clamp Home Sensor
11	–	Stopper (P/O PL 16.7 Item 14)
12	–	Bracket (P/O PL 16.7 Item 14)
13	962K28400	Wire Harness
14	–	Gear (42/27T) (Not Spared)
15	–	Plate (Not Spared)
16	130K88780	Eject Clamp Home Sensor
17	–	Bracket (Not Spared)
18	–	Bracket (Not Spared)
19	–	Spring (Not Spared)



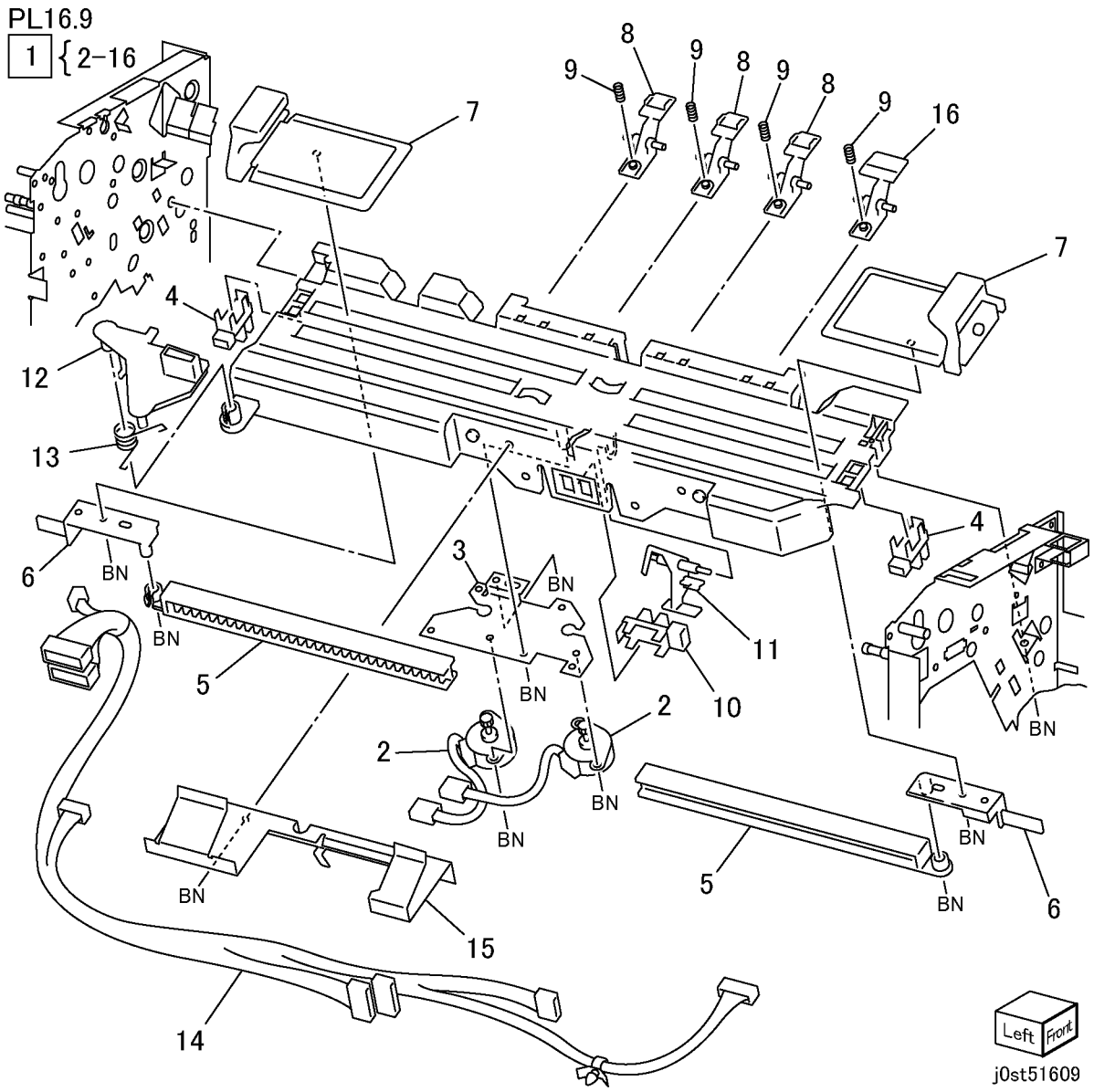
PL 16.8 Staple Unit

Item	Part	Description
1	041K94260	Carriage Assembly
2	–	Bracket Assembly (P/O PL 16.8 Item 1)
3	127K32860	Staple Move Motor
4	–	Gear (P/O PL 16.8 Item 1)
5	130K88770	Staple Move Sensor
6	–	Roll (P/O PL 16.8 Item 1)
7	130K88770	Staple Front Corner Sensor
8	–	Plate (Not Spared)
9	–	Rail (REP 16.8.1) (Not Spared)
10	029K91990	Staple Assembly (REP 16.8.2)
11	–	Staple (P/O PL 16.8 Item 10)
12	050K48750	Staple Cartridge
13	–	Bracket (Not Spared)
14	–	Wire Harness (Not Spared)



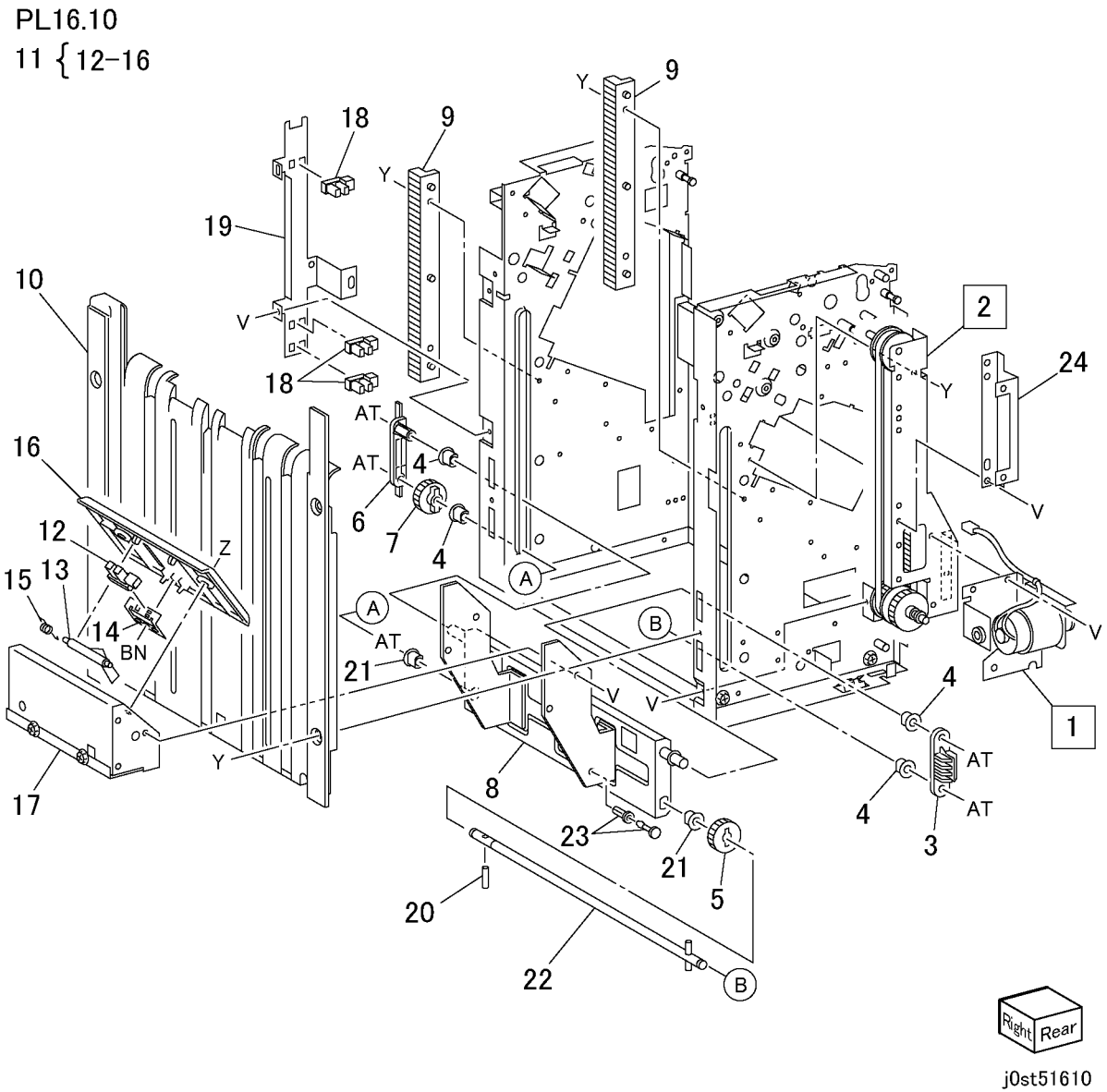
PL 16.9 Compiler Tray Assembly

Item	Part	Description
1	050K50830	Compiler Tray Assembly (REP 16.9.1)
2	127K39920	Front/Rear Tamper Motor
3	–	Plate (P/O PL 16.9 Item 1)
4	130K88770	Front/Rear Tamper Home Sensor
5	–	Rack (P/O PL 16.9 Item 1)
6	–	Actuator (P/O PL 16.9 Item 1)
7	–	Tamper Assembly (P/O PL 16.9 Item 1)
8	–	Finger (P/O PL 16.9 Item 1)
9	–	Spring (P/O PL 16.9 Item 1)
10	130K88780	Compiler Paper Sensor
11	120E24490	Actuator
12	–	Paper Guide (P/O PL 16.9 Item 1)
13	–	Spring (P/O PL 16.9 Item 1)
14	–	Wire Harness (P/O PL 16.9 Item 1)
15	–	End Guide (P/O PL 16.9 Item 1)
16	–	Finger (P/O PL 16.9 Item 1)



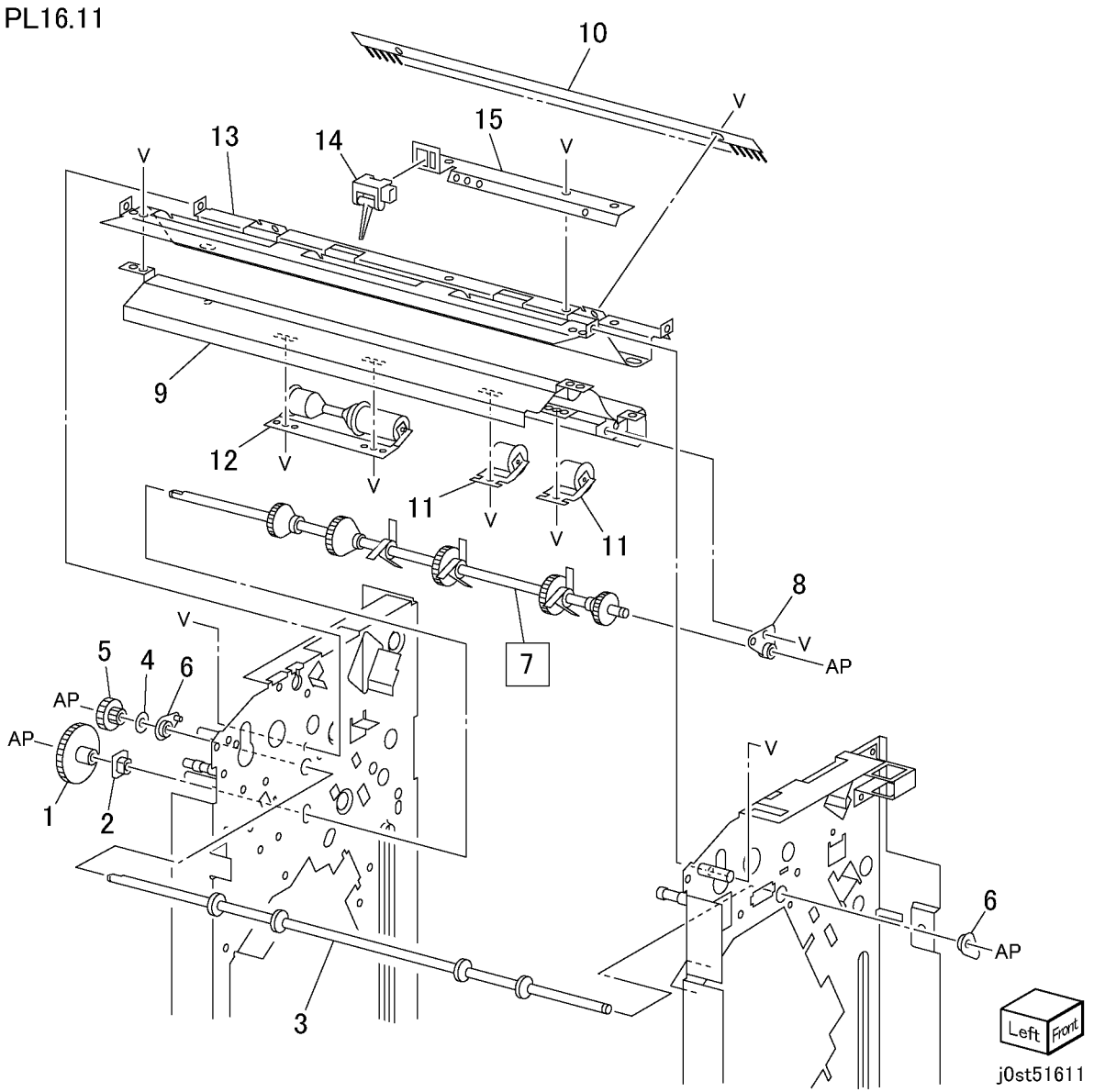
PL 16.10 Elevator

Item	Part	Description
1	127K39910	Stacker Motor Assembly (REP 16.10.1)
2	–	Elevator Bracket (Front) (REP 16.10.2) (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
13	–	Actuator (P/O PL 16.10 Item 11)
14	–	Bracket (P/O PL 16.10 Item 11)
15	–	Spring (P/O PL 16.10 Item 11)
16	–	Cover (P/O PL 16.10 Item 11)
17	–	Bracket (Not Spared)
18	130K88770	Stacker Upper Limit/Stack A/Stack B Sensor
19	–	Bracket (Not Spared)
20	–	Pin (Not Spared)
21	–	Bearing (Not Spared)
22	–	Shaft (Not Spared)
23	–	Rivet (Not Spared)
24	–	Bracket (Not Spared)



PL 16.11 Exit

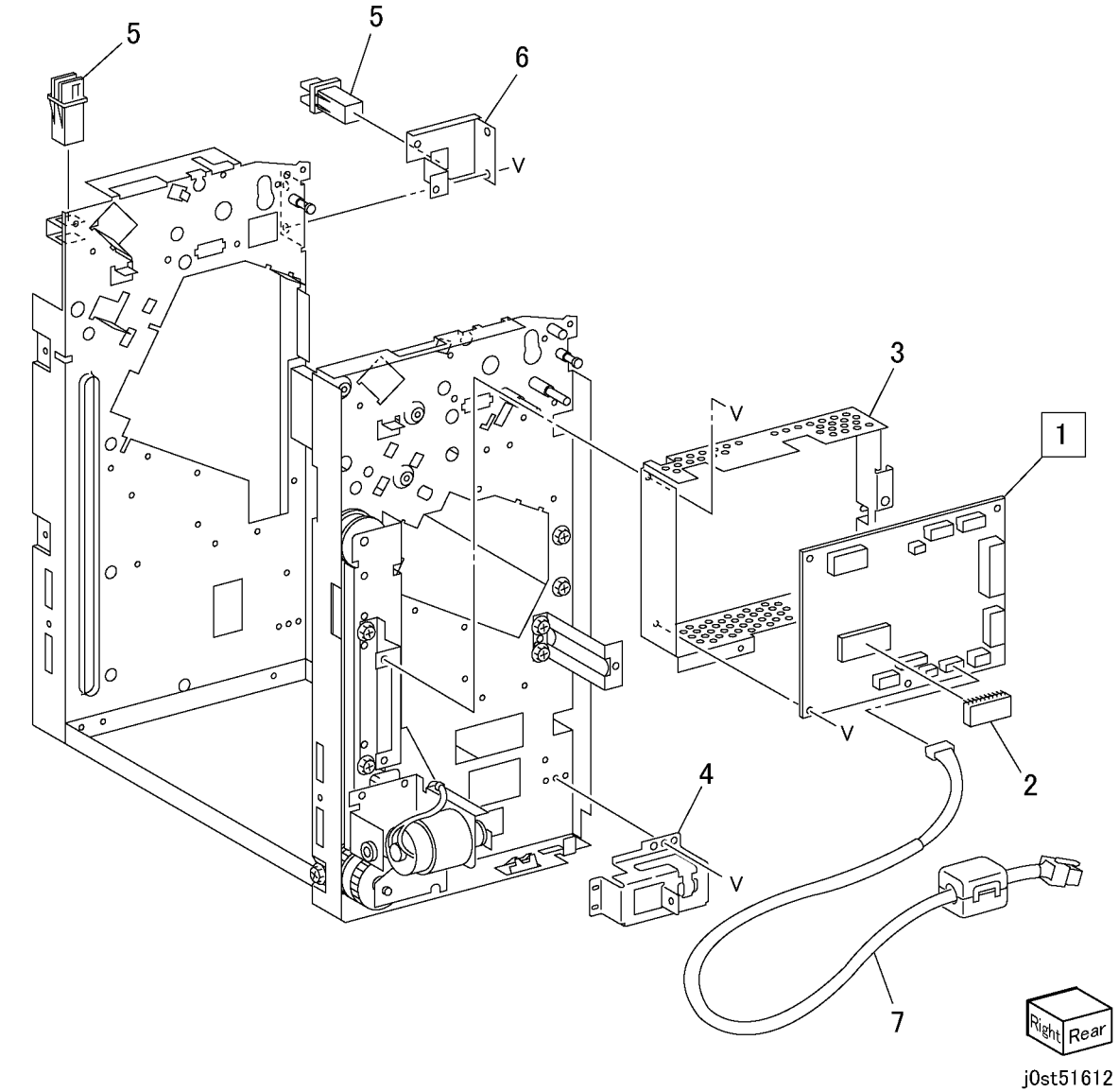
Item	Part	Description
1	–	Gear (46Z) (Not Spared)
2	–	Bearing (Not Spared)
3	–	Exit Shaft (Not Spared)
4	–	Collar (Not Spared)
5	–	Gear (32Z/18T) (Not Spared)
6	–	Bearing (Not Spared)
7	006K23730	Paddle Gear Shaft (REP 16.11.1)
8	–	Paddle Bearing (Not Spared)
9	–	Lower Exit Chute (Not Spared)
10	–	Eliminator (Not Spared)
11	022K65140	Pinch Roll (Exit 1)
12	022K67460	Pinch Roll (Exit R)
13	–	Upper Exit Chute (Not Spared)
14	130K94740	Compiler Entrance Sensor
15	–	Bracket (Not Spared)



PL 16.12 Electrical

Item	Part	Description
1	960K01650	Finisher PWB (REP 16.12.1)
2	537K68530	ROM (23/28CPM Model)
–	540K01880	ROM (33CPM Model)
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

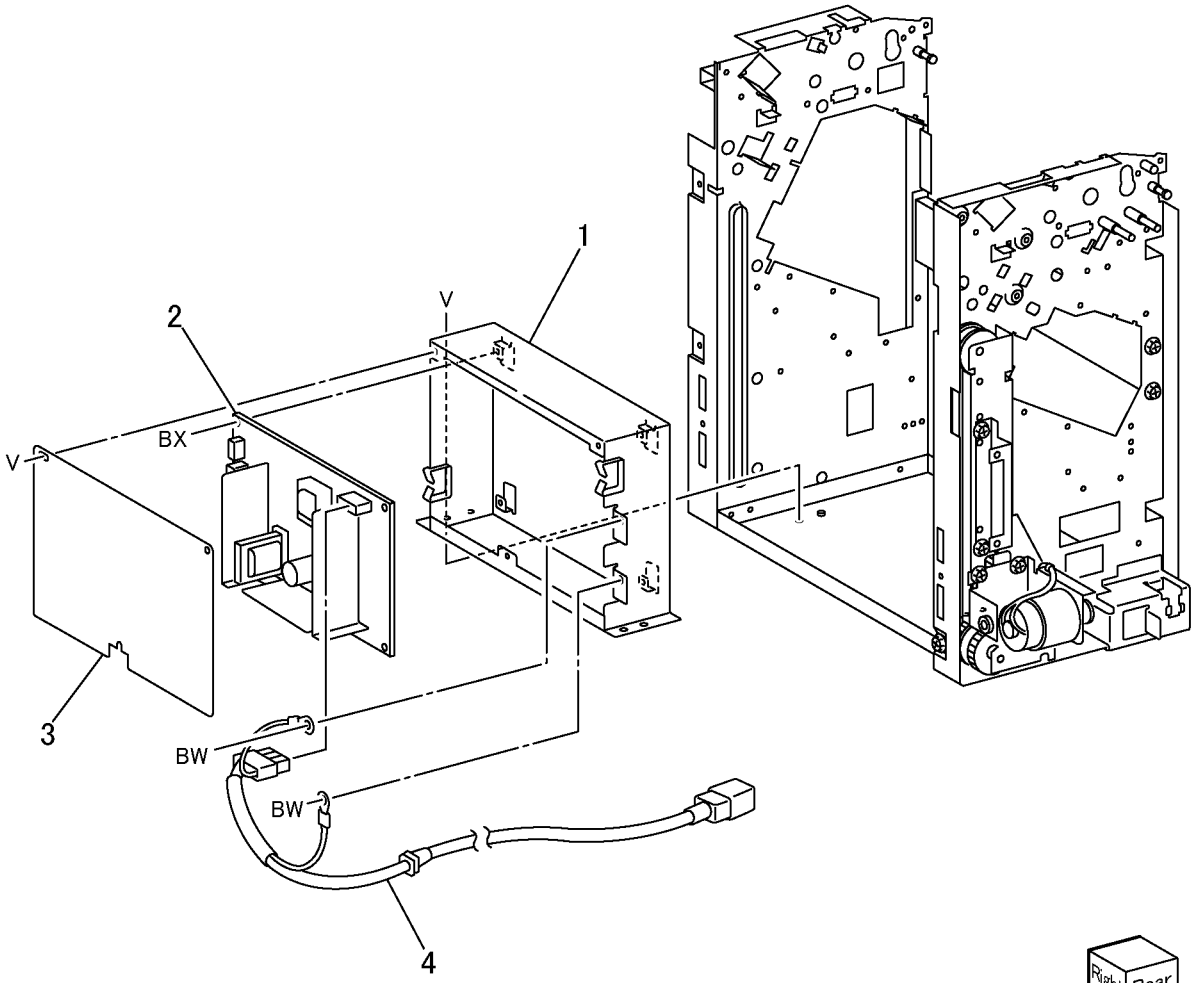
PL16.12



PL 16.13 LVPS

Item	Part	Description
1	–	LVPS Frame (Not Spared)
2	105K21000	LVPS (100V)
–	105K20990	LVPS (200V)
3	–	Cover (Not Spared)
4	962K27340	Power Cord

PL16.13

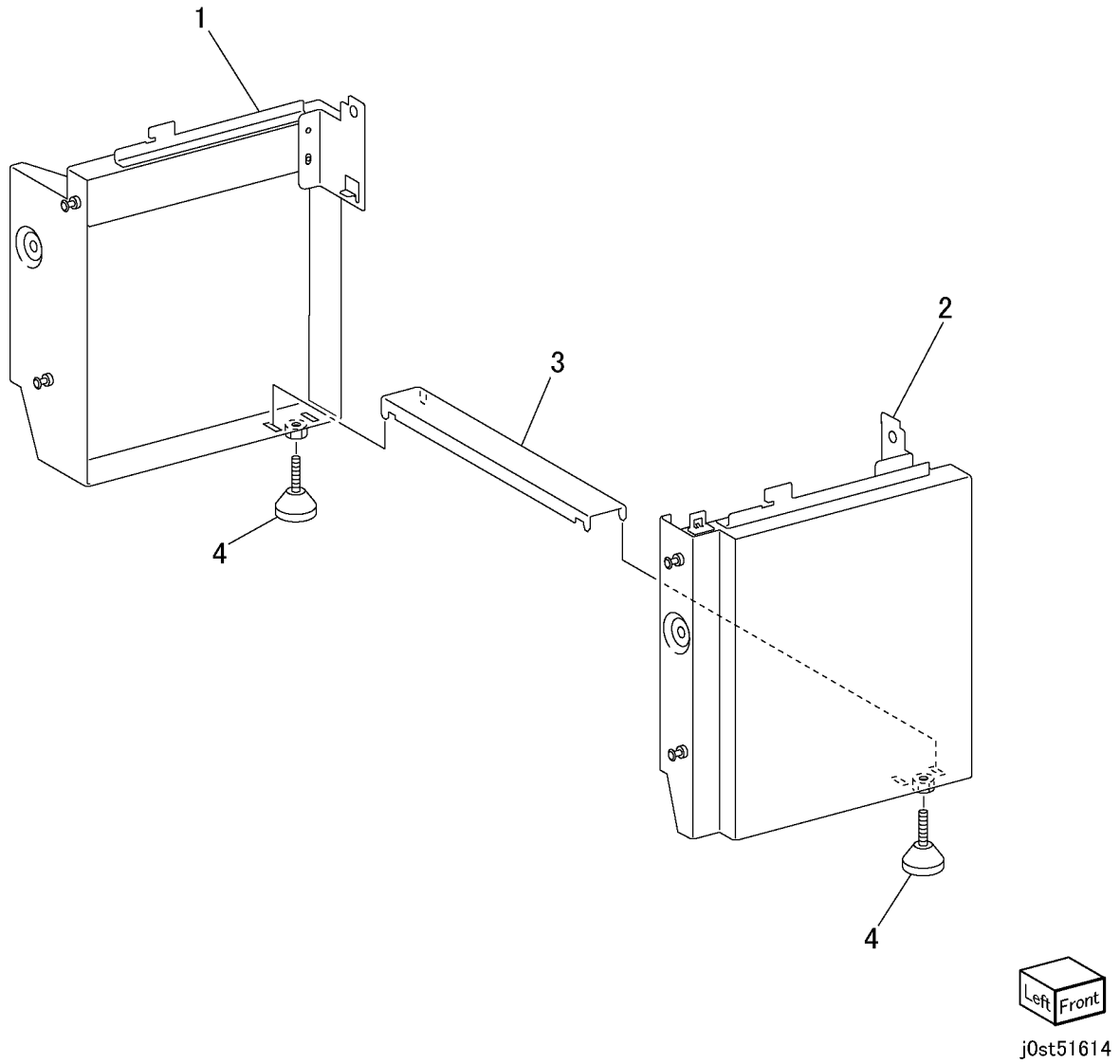


j0st51613

PL 16.14 Rack

Item	Part	Description
1	–	Rear Rack (Not Spared)
2	–	Front Rack (Not Spared)
3	–	Bottom Plate (Not Spared)
4	–	Foot (Not Spared)

PL16.14



Common Hardware

Item	Part	Description
A	112W 27677	Screw (Red) (M3x6)
B	112W 27678	Screw (M3x6)
C	112W 27851	Screw (M3x8)
D	112W 27898	Screw (M3x8)
E	113W 15488	Screw (M2x4)
F	113W 20678	Screw (M3x6)
G	113W 20857	Screw (M3x8)
H	113W 21278	Screw (M3x12)
J	113W 21778	Screw (M3x18)
K	113W 27688	Screw (M3x6)
L	113W 36278	Screw (M4x12)
M	114W 27678	Screw (M3x6)
N	141W 35651	Setscrew (M4x6)
P	153W 17688	Tapping Screw (M3x6)
Q	153W 17888	Tapping Screw (M3x8)
R	153W 18088	Tapping Screw (M3x10)
S	153W 27678	Tapping Screw (M3x6)
T	153W 27878	Tapping Screw (M3x8)
U	158W 27655	Screw (M3x6)
V	158W 27663	Screw (M3x6)
W	158W 27677	Screw (Red) (M3x6)
X	158W 27678	Screw (M3x6)
Y	158W 27855	Screw (M3x8)
Z	158W 27863	Screw (M3x8)
AA	158W 27878	Screw (M3x8)
AB	158W 28078	Screw (M3x10)
AC	158W 28255	Screw (M3x12)
AD	158W 28278	Screw (M3x12)
AE	158W 35678	Screw (M4x6)
AF	220W 21278	Nut (M3)
AG	271W 21250	Dowel Pin (2.5x12)
AH	285W 16251	Spring Pin (2x12)
AJ	285W 28051	Spring Pin (3x10)
AK	354W 15251	E-Clip (2)
AL	354W 15278	E-Clip (2)
AM	354W 21251	E-Clip (3)
AN	354W 21278	E-Clip (3)
AP	354W 24251	E-Clip (4)
AQ	354W 24254	KL-Clip (4)
AR	354W 24278	E-Clip (4)
AS	354W 26278	E-Clip (5)
AT	354W 27251	E-Clip (6)
AU	354W 27254	KL-Clip (6)
AV	354W 27278	E-Clip (6)
AW	354W 28278	E-Clip (7)
AX	354W 29251	E-Clip (8)
AY	354W 29278	E-Clip (8)
AZ	251W 21278	Washer (3) (t 0.5)
BA	113W 27651	Screw (M3x6)
BB	112W 27659	Screw (M3x6)
BC	113W 16088	Screw (M2x10)
BD	113W 20688	Screw (M2.5x6)
BE	113W 27551	Screw (M3x5)
BF	141W 27451	Setscrew (M3x4)
BG	153W 15888	Tapping Screw (M4x12)
BH	153W 16288	Tapping Screw (M4x12)
BJ	158W 35878	Screw (M4x8)
BK	271W 16050	Dowel Pin (2x10)
BL	285W 16051	Spring Pin (2x10)
BM	153W 17655	Tapping Screw (M3x6)
BN	153W 17855	Tapping Screw (M3x8)
BP	252W 29450	Nylon Washer (8) (t 1)
BQ	158W 36255	Screw (M4x12)
BR	354W 26251	E-Clip (5)
BS	153W 27855	Tapping Screw (M3x8)
BT	113W 20457	Screw (M3x4)
BU	113W 27451	Screw (M3x4)
BV	113W 20657	Screw (M3x6)
BW	112W 35651	Screw (M4x6)
BX	112W 27859	Screw (M3x8)
BY	158W 28678	Screw (M3x16)
BZ	285W 21851	Spring Pin (2.5x20)
CA	252W 26450	Nylon Washer (5) (t 1)
CB	251W 19278	Washer (2.5) (t 0.5)
CC	113W 21478	Screw (M3x14)
CH	354W13278	E-Clip (1.5)

Part Number Index

Table 1 Part Number Index

Part Number	Part List
003E 49861	PL 13.2
	PL 13.3
003E 58700	PL 2.1
003E 59832	PL 2.8
003E 60160	PL 6.3
	PL 6.5
003E 60171	PL 6.4
	PL 6.6
003E 61510	PL 12.1
004E 13450	PL 11.1
004K 02144	PL 15.1
005E 17860	PL 1.1
005K 05890	PL 2.3
	PL 12.3
	PL 13.6
005K 06760	PL 2.3
	PL 12.3
	PL 13.6
005K 07010	PL 2.3
	PL 12.3
	PL 13.6
006K 23011	PL 13.2
	PL 13.3
006K 23710	PL 16.5
006K 23730	PL 16.11
007E 67800	PL 16.7
007E 67830	PL 16.10
007E 67840	PL 16.10
007E 78390	PL 13.3
007E 79270	PL 2.5
007E 79320	PL 2.4
007E 79710	PL 7.2
007K 86910	PL 16.5
007K 88583	PL 1.1
007K 88751	PL 15.6
007K 89301	PL 12.6
	PL 13.8
007K 93800	PL 12.6
	PL 13.8

Table 1 Part Number Index

Part Number	Part List
010E 93341	PL 12.2
011E 14581	PL 8.1
011E 14590	PL 8.1
011E 15150	PL 7.2
012K 94341	PL 2.6
013E 22021	PL 6.2
013E 25550	PL 6.2
013E 25840	PL 6.2
013E 26060	PL 2.4
013E 26090	PL 1.1
	PL 2.4
013E 26760	PL 2.4
013E 26990	PL 2.5
013R 00589	PL 4.1
014E 44710	PL 2.1
014E 44770	PL 13.6
014E 51110	PL 12.1
015K 51640	PL 16.10
015K 61010	PL 2.5
015K 65440	PL 16.7
019E 56550	PL 7.2
019K 98720	PL 7.2
019K 98770	PL 15.4
019K 99070	PL 15.4
020E 34970	PL 16.7
020E 36560	PL 13.2
020E 36820	PL 13.3
020E 37030	PL 11.5
022K 61480	PL 16.5
022K 65140	PL 16.11
022K 67450	PL 16.6
022K 67460	PL 16.11
022K 67720	PL 16.1
022K 67800	PL 16.5
023E 21210	PL 11.5
028E 94260	PL 15.3
	PL 16.5
029K 91990	PL 16.8
030K 75540	PL 13.2
032E 20890	PL 13.2
032E 21060	PL 7.2

Table 1 Part Number Index

Part Number	Part List
032K 96940	PL 4.2
036K 91551	PL 15.3
036K 91561	PL 15.3
036K 91620	PL 6.2
038E 26723	PL 6.2
038E 31200	PL 7.2
041K 94260	PL 16.8
041K 94440	PL 11.6
041K 94470	PL 11.6
050E 19620	PL 16.1
050E 19802	PL 6.2
050E 20010	PL 6.3
	PL 6.5
050K 48750	PL 16.8
050K 49410	PL 13.1
050K 49430	PL 13.1
050K 49716	PL 15.2
050K 49741	PL 7.1
050K 49840	PL 2.1
	PL 12.1
050K 50830	PL 16.9
054E 23170	PL 13.6
054E 23842	PL 6.2
054E 23910	PL 2.4
054E 23940	PL 2.4
054E 23950	PL 2.8
054E 24331	PL 6.4
	PL 6.6
054E 24371	PL 6.3
	PL 6.5
054E 25722	PL 12.1
	PL 13.5
054K 23940	PL 2.4
054K 24051	PL 2.6
054K 24060	PL 2.8
054K 24090	PL 2.1
054K 27050	PL 2.1
059E 98190	PL 12.4
	PL 13.7
059E 98210	PL 13.1
	PL 13.1

Table 1 Part Number Index

Part Number	Part List
059E 98370	PL 2.5
059E 98590	PL 2.4
059E 98780	PL 6.4
	PL 6.6
059E 98860	PL 13.4
059K 26250	PL 12.5
	PL 13.5
059K 26340	PL 13.3
059K 26350	PL 13.4
059K 26760	PL 6.2
	PL 6.4
	PL 6.6
059K 26840	PL 2.5
059K 26953	PL 2.1
	PL 2.1
	PL 13.4
	PL 13.5
059K 27140	PL 7.2
059K 27150	PL 7.2
059K 31021	PL 2.4
059K 31263	PL 16.5
059K 31290	PL 16.5
059K 31315	PL 15.4
059K 31410	PL 15.1
059K 31572	PL 8.1
059K 31590	PL 6.2
059K 36724	PL 15.4
059K 36990	PL 6.1
059K 40370	PL 12.5
	PL 13.5
059K 42520	PL 2.1
	PL 2.1
	PL 13.4
	PL 13.5
062E 10800	PL 11.6
062K 13580	PL 3.1
062K 14502	PL 11.4
062K 15572	PL 11.1
086S 16209	PL 11.1
090K 02331	PL 11.3
090K 93011	PL 11.3

Table 1 Part Number Index

Part Number	Part List
101K 45360	PL 9.1
101K 46070	PL 9.2
101K 46110	PL 9.2
101K 51660	PL 9.1
104E 94080	PL 9.1
105E 06910	PL 15.10
105E 11370	PL 9.1
105E 11380	PL 9.1
105E 11410	PL 9.1
105E 12140	PL 11.6
105E 12210	PL 6.2
105E 12940	PL 6.4
	PL 6.6
105K 20990	PL 16.13
105K 21000	PL 16.13
110E 10620	PL 12.4
	PL 13.7
110E 11230	PL 9.1
110E 11580	PL 6.4
	PL 6.6
	PL 8.1
110E 94770	PL 2.6
	PL 10.1
110E 97990	PL 16.12
110K 11610	PL 11.2
110K 11680	PL 2.1
	PL 2.1
	PL 12.1
110K 11810	PL 4.2
110K 11820	PL 13.1
110K 11960	PL 11.4
110K 11981	PL 15.7
117E 10550	PL 9.1
117E 21570	PL 11.6
117E 21621	PL 15.3
117E 21630	PL 11.3
117E 22550	PL 9.1
	PL 9.1
117K 35790	PL 9.3
117K 35800	PL 9.3
117K 36490	PL 9.3

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Part Number	Part List
117K 36500	PL 9.3
120E 21261	PL 8.1
120E 22030	PL 11.4
120E 22121	PL 5.1
120E 22230	PL 7.1
120E 22370	PL 15.10
120E 22451	PL 6.4
	PL 6.6
120E 22481	PL 2.3
	PL 12.3
	PL 13.6
120E 24490	PL 16.9
121E 92780	PL 7.2
121K 31530	PL 12.6
	PL 13.8
121K 31640	PL 2.4
121K 31810	PL 6.4
	PL 6.6
121K 31912	PL 15.7
121K 32370	PL 6.4
	PL 6.6
121K 32660	PL 2.4
121K 32730	PL 2.4
121K 34190	PL 16.5
122K 93480	PL 11.6
123K 94950	PL 11.2
126K 16480	PL 5.1
126K 16490	PL 5.1
127K 32840	PL 16.6
127K 32860	PL 16.8
127K 37880	PL 4.2
127K 37951	PL 6.2
	PL 6.4
127K 38040	PL 4.2
127K 38170	PL 12.3
	PL 13.6
127K 38190	PL 11.5
127K 38261	PL 6.4
	PL 6.6
127K 38410	PL 15.5
127K 38440	PL 15.9

Table 1 Part Number Index

Part Number	Part List
127K 38460	PL 15.9
127K 39480	PL 8.1
127K 39900	PL 16.3
127K 39910	PL 16.10
127K 39920	PL 16.9
127K 39930	PL 16.7
127K 45361	PL 1.1
130E 82740	PL 5.1
130E 85970	PL 11.4
	PL 11.4
130E 87400	PL 15.7
130E 87410	PL 15.10
	PL 15.10
130K 61920	PL 16.5
130K 63280	PL 16.3
130K 64121	PL 12.5
	PL 13.5
130K 64150	PL 11.4
	PL 11.4
130K 64261	PL 2.5
130K 64270	PL 2.4
130K 64471	PL 12.5
130K 87980	PL 4.2
130K 88770	PL 16.8
	PL 16.8
	PL 16.9
	PL 16.10
	PL 16.10
130K 88780	PL 16.3
	PL 16.7
	PL 16.7
	PL 16.9
130K 88790	PL 16.3
130K 94740	PL 16.11
133K 23830	PL 9.2
152S 06000	PL 9.1
152S 06001	PL 9.1
152S 06002	PL 9.1
152S 06003	PL 9.1
160K 91630	PL 11.2
160K 91660	PL 9.2

Table 1 Part Number Index

Part Number	Part List
160K 94205	PL 9.1
160K 94211	PL 9.1
160K 94225	PL 8.1
160K 94250	PL 9.2
160K 95830	PL 4.2
	PL 4.2
160K 95903	PL 9.3
160K 97456	PL 12.6
	PL 13.8
160K 97600	PL 15.7
160K 97643	PL 9.3
160K 97876	PL 15.3
160K 99811	PL 11.3
162K 56100	PL 2.4
413W 11860	PL 2.5
423W 08055	PL 15.9
423W 29955	PL 15.9
537K 68270	PL 9.2
537K 68530	PL 16.12
540K 01880	PL 16.12
604K 20390	PL 6.2
604K 20400	PL 6.4
	PL 6.6
604K 20410	PL 7.1
604K 20420	PL 6.2
604K 20430	PL 6.4
	PL 6.6
604K 20440	PL 11.5
604K 20460	PL 8.2
604K 20470	PL 8.2
604K 20490	PL 16.6
604K 20500	PL 1.1
604K 20510	PL 11.5
604K 20520	PL 7.1
604K 20530	PL 2.3
	PL 12.3
	PL 13.6
604K 20540	PL 2.2
	PL 12.2
604K 20550	PL 2.1
	PL 12.1

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Part Number	Part List
	PL 12.2
	PL 13.1
604K 20680	PL 6.4
	PL 6.6
604K 20690	PL 6.4
	PL 6.6
604K 20700	PL 6.4
	PL 6.6
604K 20710	PL 12.1
604K 20720	PL 12.5
	PL 12.6
604K 20730	PL 13.2
	PL 13.3
604K 20740	PL 13.2
604K 20750	PL 13.2
	PL 13.3
604K 20760	PL 15.6
604K 20770	PL 15.7
604K 20780	PL 15.8
604K 20790	PL 16.1
607K 20740	PL 13.3
801K 05633	PL 15.2
801K 05760	PL 7.2
802E 28550	PL 16.4
802E 28560	PL 16.4
802E 54540	PL 11.1
802E 54550	PL 11.1
802E 54560	PL 11.1
802E 54750	PL 12.7
	PL 13.9
802E 54762	PL 12.7
	PL 13.9
802E 54771	PL 12.7
	PL 13.9
802E 55150	PL 6.2
802E 55170	PL 8.1
802E 55191	PL 10.1
802E 55200	PL 7.1
802E 55211	PL 7.1
802E 55221	PL 10.1
802E 55230	PL 10.2

Table 1 Part Number Index

Part Number	Part List
802E 55241	PL 10.2
802E 55270	PL 10.2
802E 55281	PL 10.2
802E 55311	PL 10.1
802E 55341	PL 10.1
802E 55391	PL 10.1
802E 55411	PL 10.2
802E 55430	PL 10.1
802E 55521	PL 11.2
802E 55532	PL 11.2
802E 55550	PL 11.2
802E 55701	PL 2.5
802E 57292	PL 15.2
802E 57441	PL 15.2
802E 64390	PL 16.4
802E 64400	PL 16.4
802E 75231	PL 10.2
802K 28570	PL 16.5
802K 49240	PL 2.6
802K 53485	PL 13.7
802K 53502	PL 12.4
802K 55690	PL 11.1
802K 56093	PL 2.6
802K 58260	PL 2.6
802K 59200	PL 11.1
802K 60061	PL 11.2
802K 62050	PL 10.1
802K 64100	PL 4.1
802K 64711	PL 11.2
802K 65090	PL 16.4
802K 65582	PL 2.8
807E 00180	PL 6.4
	PL 6.6
807E 00550	PL 15.6
807E 02610	PL 7.2
807E 08690	PL 1.1
809E 37170	PL 6.3
	PL 6.5
809E 37332	PL 6.4
	PL 6.6
809E 42201	PL 5.1

Table 1 Part Number Index

Part Number	Part List
809E 50210	PL 6.4
	PL 6.6
809E 50761	PL 15.9
809E 51860	PL 15.10
815E 04811	PL 11.3
830E 45710	PL 12.4
	PL 13.7
849E 13981	PL 2.8
892E 99040	PL 10.1
893E 04480	PL 11.1
893E 04490	PL 11.1
893E 04500	PL 11.1
893E 04510	PL 11.1
908W 01201	PL 9.1
927W 00111	PL 3.1
930W 00111	PL 16.5
	PL 15.7
	PL 15.7
	PL 15.7
	PL 15.7
	PL 15.7
	PL 15.8
	PL 15.9
	PL 15.10
	PL 15.10
	PL 15.10
930W 00113	PL 2.3
	PL 2.3
	PL 6.2
	PL 6.4
	PL 6.4
	PL 6.6
	PL 7.1
	PL 8.1
	PL 12.3
	PL 12.3
	PL 13.6
	PL 13.6
930W 00211	PL 2.3
	PL 2.4
	PL 12.3

Table 1 Part Number Index

Part Number	Part List
	PL 13.6
930W 00212	PL 13.4
960K 00333	PL 9.3
960K 01120	PL 9.2
960K 01650	PL 16.12
960K 02441	PL 11.2
960K 05030	PL 12.6
	PL 13.8
960K 09910	PL 9.1
960K 15700	PL 9.2
962K 13060	PL 4.2
962K 13080	PL 9.4
962K 13090	PL 9.4
962K 13100	PL 9.4
962K 13111	PL 9.4
962K 13120	PL 7.1
962K 13140	PL 9.4
962K 13200	PL 9.4
962K 13211	PL 9.4
962K 13240	PL 9.4
962K 13250	PL 9.4
962K 13301	PL 9.4
962K 13500	PL 9.4
962K 13510	PL 9.4
962K 15241	PL 6.2
962K 18162	PL 12.6
962K 18171	PL 12.5
	PL 13.5
962K 18690	PL 9.1
962K 18882	PL 6.4
	PL 6.6
962K 18900	PL 12.5
962K 18912	PL 2.3
	PL 2.3
	PL 13.6
962K 19220	PL 9.4
962K 19691	PL 2.3
	PL 12.3
	PL 13.6
962K 19703	PL 16.5
962K 19711	PL 15.10

Table 1 Part Number Index

Part Number	Part List
962K 19721	PL 15.7
962K 19731	PL 15.4
962K 19740	PL 15.4
962K 19750	PL 15.4
962K 19790	PL 15.3
962K 23460	PL 2.5
962K 23600	PL 9.4
962K 24360	PL 16.3
962K 27330	PL 16.12
962K 27340	PL 16.13
962K 28400	PL 16.7
962K 30410	PL 12.6
962K 32120	PL 9.4
962K 32130	PL 9.4

6 General Procedures and Information

UI Diagnostic Mode

Procedure

Access UI Diagnostics by following the procedures below.

Entering UI Diagnostics

1. 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.
2. 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

1. Press the **Log In/Out** button on the Control Panel.
2. Select **System Settings**.
3. Select **Common Settings**.
4. Select **Maintenance/Diagnostics**.
5. The following Diagnostics Routines can be accessed from the UI screen. (Figure 1)
   a. NVM Read/Write
      – Follow the instructions on the screen. If one or more NVM locations is changed, the machine will reboot upon exit.
   b. Component Control
   c. Sub System
      – Initialize Hard Disk
      – Delete All Data
      – Software Options
      – Fax Diagnostics
   d. Print Test Pattern
   e. Initialize NVM
   f. Adjustment/Others
      – Machine ID/Billing Data
      – Initialize HFSI Counter
      – Adjust Toner Density
      – Tray 5(Bypass) Guide Adjustment (Tray 5=MPT)

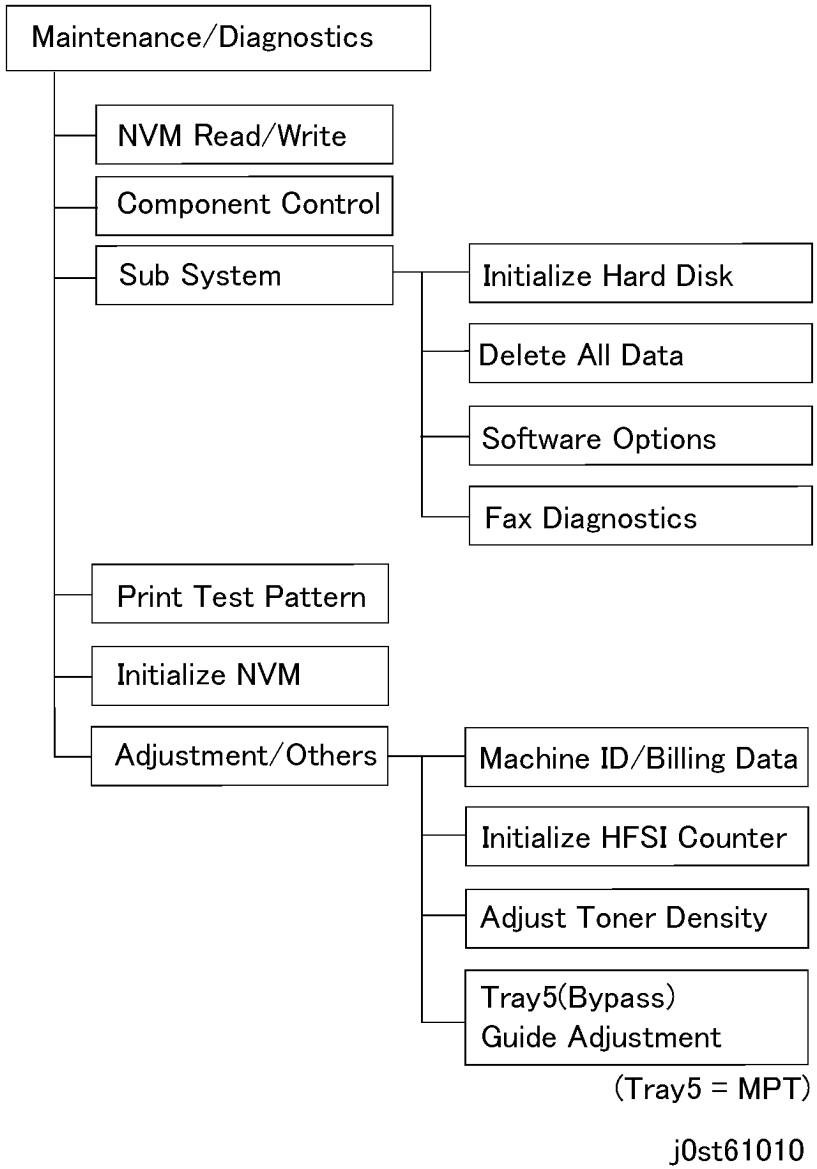

Figure 1 Maintenance/Diagnostics (j0st61010)

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 **Shutdown Report** button.
6. 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
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 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 Chain 740-xxx ESS IF

Chain-Link	Name	Default	Range	1 Count	Remarks
740-001	Check System Data Set up	0	0~99	-	Controller will write in the optional value when System Data setting is completed.
740-007	MCU VERSION	-	0~1	-	Not available
740-008	MCU Release Number	-	0~99	-	Not available
740-009	MCU Patch Level	-	0~99	-	Not available
740-010	DM ROM Version	-	0~99	-	Not available
740-011	DM ROM Release Number	-	0~99	-	Not available
740-012	Exit Version	-	0~99	-	Not available
740-013	Exit Release Number	-	0~99	-	Not available
740-022	The Area 1 that Controller is free to use	0	0~99	1	Not available
740-023	The Area 2 that Controller is free to use	0	0~99	1	Not available
740-024	The Area 3 that Controller is free to use	0	0~99	1	Not available
740-025	The Area 4 that Controller is free to use	0	0~99	1	Not available
740-026	The Area 5 that Controller is free to use	0	0~99	1	Not available
740-027	The Area 6 that Controller is free to use	0	0~99	1	Not available
740-028	The Area 7 that Controller is free to use	0	0~99	1	Not available
740-029	The Area 8 that Controller is free to use	0	0~99	1	Not available
740-030	The Area 9 that Controller is free to use	0	0~99	1	Not available
740-031	The Area 10 that Controller is free to use	0	0~99	1	Not available
740-082	Finisher Version major	-	0~99	-	Not available
740-083	Finisher Version minor	-	0~99	-	Not available
740-084	Finisher Patch Level	-	0~99	-	Not available
740-088	TM-Version	-	0~99	-	Not available
740-089	TM-Release Number	-	0~99	-	Not available

Chain 740-xxx Billing

Table 2 Billing

Chain-Link	Name	Default	Range	1 Count	Remarks
740-565	Billing Counter MAX Over	0	0~1	1	Displays whether the Billing Counter Number NVM was written more than 4,000,000 times. 0: Not exceeded, 1: Exceeded

Chain 741-xxx Drive

Table 3 Drive

Chain-Link	Name	Default	Range	1 Count	Remarks
741-001	Fine-Tuning of Main and Drum Motor Speed	24	0~53	0.1	Diag50-28 Adjust Main and Drum Motor Speed at the same time. Min(0)=-2.7%, Max(53)=2.6%, Initial(27)=0%

Chain 741-xxx NOHAD

Table 4 NOHAD

Chain-Link	Name	Default	Range	1 Count	Remarks
741-509	Non-condensation mode	-	0~1	1	0: Normal mode 1: Condensation mode

Chain 740-xxx Chain 742-xxx Chain 760-xxx PH

Table 5 PH

Chain-Link	Name	Default	Range	1 Count	Remarks
740-090	Output Tray	0	0~4	-	0: FACE DOWN TRAY#1, 1: FACE DOWN TRAY#2, 2: FACE UP TRAY, 3: FINISHER Bin1, 4: FINISHER Top Tray
742-003	Exit SNR1 Short Off Check	0	0~1	-	0: Enable 1: Disable
742-006	TRAY2 for Heavyweight2 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
742-012	TRAY2 for Heavyweight2 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.
742-015	The Timer which turns OFF TACL	87	37~137	3.0ms	Not available
742-018	The Timer which turns ON TACL	11	0~41	3.0ms	Not available
742-027	LEAD REGI ADJUSTMENT - ALL TRAY	33	0~66	0.2175mm	Image input is delayed when Set Value is increased. Min(0)=-7.18mm, Max(66)=7.18mm, Initial(33)=0mm
742-030	INVERT TIMING - ALL TRAY	33	0~66	0.435mm	Invert timing is delayed 3msec when Set Value is increased. Min(0)=-14.96mm, Max(99)=14.96mm, Initial(33)=0mm
742-090	Paper Path Sensor (Tray Module)	-	0~127	-	Bit0: Not available Bit1: Not available Bit2: Not available Bit3: Not available Bit4: FEED OUT#4 SENSOR Bit5: FEED OUT#3 SENSOR Bit6: FEED OUT#2 SENSOR Bit7: * The meaning of the bit, 0: Out of paper, 1: Paper detected. The renewal precision is 10 ms.
742-091	Paper Path Sensor (HCF / DM / EXIT/ IOT)	-	0~127	-	Bit0: Not available Bit1: Not available Bit2: DM WAIT SENSOR Bit3: EXIT#2 SENSOR Bit7: EXIT#1 SENSOR Bit6: REGI SENSOR * The meaning of the bit, 0: Out of paper, 1: Paper detected. The renewal precision is 10 ms.
742-093	Paper Path Sensor (FINISHER)	-	0~63	-	Bit0: Fin H-X'port Ent. SENSOR Bit1: Fin H-X'port EXIT SENSOR Bit2: Fin X'port Ent.SENSOR Bit3: Fin Buffer PATH SENSOR Bit4: COMPILE TRAY EXIT PATH SENSOR Bit5: Not available Bit6: Top Tray Exit Sensor * The meaning of the bit, 0: Out of paper, 1: Paper detected. The renewal precision is 10 ms.
760-001	TRAY1 for Plain Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.

Table 5 PH

Chain-Link	Name	Default	Range	1 Count	Remarks
760-002	TRAY2-4,HCF for Plain Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-003	MPT for Plain Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-005	DUP ALL SIZE for Plain Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-006	ALL TRAY - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-007	TRAY1 for Plain Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-008	TRAY2-4,HCF - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-009	MPT for Plain Paper - REGI LOOP TIMER	12	0~66	0.435mm	Loop increases when Set Value is increased.
760-010	DUP for Plain Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-011	REGI CLUTCH OFF TIMER - ALL TRAY	33	0~66	0.2175mm	Clutch off is delayed by 2ms when Set Value is increased.
760-012	TOP SIGNAL OFFSET VALUE ADJUSTMENT	0	0~99	0.2175mm	Not available
760-016	TRAY1 for Heavyweight1 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-017	TRAY1 for Heavyweight2 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-018	TRAY2-4,HCFfor Heavyweight1 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-019	TRAY3-4,HCFfor Heavyweight2 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-020	MPT for Heavyweight1 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-021	MPT for Heavyweight2 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-022	DUP ALL SIZE for Heavyweight1 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-023	DUP ALL SIZE for Heavyweight2 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-024	TRAY2-4,HCF for Heavyweight1 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-025	TRAY3-4,HCF for Heavyweight2 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-026	MPT for Heavyweight1 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.
760-027	MPT for Heavyweight2 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.
760-028	DUP for Heavyweight1 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-029	DUP for Heavyweight2 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-031	TRAY1 for Heavyweight4 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-032	TRAY2-4,HCF for Heavyweight4 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-033	MPT for Heavyweight4 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.

Table 5 PH

Chain-Link	Name	Default	Range	1 Count	Remarks
760-034	DUP ALL SIZE for Heavyweight4 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
760-035	TRAY1 for Heavyweight1 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-036	TRAY1 for Heavyweight2 Paper - REGI LOOP TIMER	33	0~66	0.435mm	Loop increases when Set Value is increased.
760-037	TRAY1 for Heavyweight4 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.
760-038	TRAY2-4,HCF for Heavyweight4 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.
760-039	MPT for Heavyweight4 Paper - REGI LOOP TIMER	15	0~66	0.435mm	Loop increases when Set Value is increased.
760-040	MPT for Heavyweight4 Paper - REGI LOOP TIMER	24	0~66	0.435mm	Loop increases when Set Value is increased.

Chain 742-xxx Chain 764-xxx EXIT

Table 6 EXIT

Chain-Link	Name	Default	Range	1 Count	Remarks
742-098	Enable Face Down Tray#2	0	0~1	-	0: Disable Face Down Tray#2 1: Enable Face Down Tray#2 1 is taken with M0.
742-099	Enable Face Up Tray	0	0~1	-	0: Disable Face Up Tray 1: Enable Face Up Tray
742-100	EXIT2 Unit Type	0	0~1	-	0: Type A (Enable Inverter, Disable OCT2 and FDT#2) 1: Type B (Enable Inverter and OCT2 and FDT#2)
764-001	FULL DETECTION TIME ADJUSTMENT VALUE for FACE DOWN TRAY1/2 FACE UP TRAY	10	0~30	1sec	Time from the Full Stack Sensor detecting paper until the bin becomes full. This diagnostic will not function if either L. Diag 20-25 or L. Diag 20-26 is set at 00.
764-002	FULL RESET TIME ADJUSTMENT VALUE for FACE DOWN TRAY1 / 2 FACE UP TRAY	1	0~30	1sec	(After Face Down Tray becomes full) Time from the Full Stack Sensor stops detecting paper until the bin is reset. This diagnostic will not function if either L. Diag 20-25 or L. Diag 20-26 is set at 00.
764-005	FACE DOWN TRAY#1,#2 Offset Mode	0	0~2	-	0: No Offset 1: Front Offset 2: Rear Offset Applies only when the Output Tray is set to FACE DOWN TRAY#1 & #2.

Chain 742-xxx TRAY

Table 7 TRAY

Chain-Link	Name	Default	Range	1 Count	Remarks
742-001	Tray1-Default width of Universal-size paper	0	0~247	1mm	0=fixed size which is detected by M/C, "90 - 247"="140mm - 297mm", "1-89"=cannot use
742-002	Tray1- Last two digits of default length of Universal-size paper	0	0~99	1mm	0=fixed size which is detected by M/C, "98 - 432"="98mm - 432mm", "1-97"and "433-499"=cannot use
742-004	Tray2-Default width of Universal-size paper	0	0~247	1mm	0=fixed size which is detected by M/C, "90 - 247"="140mm - 297mm", "1-89"=cannot use
742-005	Tray2-Last two digits of default length of Universal-size paper	0	0~99	1mm	0=fixed size which is detected by M/C, "182 - 432"="182mm - 432mm", "1-181"and "433-499"=cannot use
742-007	Tray3-Default width of Universal-size paper	0	0~247	1mm	0=fixed size which is detected by M/C, "90 - 247"="140mm - 297mm". "1-89"=cannot use

Table 7 TRAY

Chain-Link	Name	Default	Range	1 Count	Remarks
742-008	Tray3-Last two digits of default length of Universal-size paper	0	0~99	1mm	0=fixed size which is detected by M/C, "182 - 432"="182mm - 432mm", "1-181"and "433-499"=cannot use
742-009	Enable Tray4	0	0~1	-	0: Disable Tray4 1: Enable Tray4
742-010	Tray4-Default width of Universal-size paper	0	0~247	1mm	0=fixed size which is detected by M/C, "90 - 247"="140mm - 297mm", "1-89"=cannot use
742-011	Tray4-Last two digits of default length of Universal-size paper	0	0~99	1mm	0=fixed size which is detected by M/C, "182 - 432"="182mm - 432mm", "1-181"and "433-499"=cannot use
742-013	Size of Universal-size width in Tray1	-	90~247	1mm	"90 - 247"="140mm - 297mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-014	Tray1 Last two digits of length Universal-size	-	0~99	1mm	"98 - 432"="98mm - 432mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-016	Tray2 Width of Universal-size paper	-	90~247	1mm	"90 - 247"="140mm - 297mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-017	Tray2 Last 2Dig of length Universal-size	-	0~99	1mm	"182 - 432"="182mm - 432mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-019	Tray3 Width of Universal-size paper	-	90~247	1mm	"90 - 247"="140mm - 297mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-020	Tray3 Last 2Dig of length Universal-size	-	0~99	1mm	"182 - 432"="182mm - 432mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-022	Tray4 Width of Universal-size paper	-	90~247	1mm	"90 - 247"="140mm - 297mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-023	Tray4 Last 2Dig of length Universal-size	-	0~99	1mm	"182 - 432"="182mm - 432mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-028	MPT Size Detection Offset Value (delta T)	15	0~30	1mm	See Diag 20-5 20-6 MSI Side Guide Adjustment Min(0)=0mm, Max(30)=30mm, Initial(15)=15mm
742-075	Kind of the default plain paper	0	0~1	-	0: Thicker than 70gsm for multinational market 1: 70gsm or under for domestic market
742-087	MPT Width of Universal-size paper	-	39~247	1mm	"89 - 247"="139mm - 297mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.
742-102	MPT Last 2Dig of length Universal-size	-	0~99	1mm	"98 - 432"="98mm - 432mm" This is a temporary value specified from Controller. It is cleared when the power supply is turned off or IOT resets.

Chain 744-xxx FUSER

Table 8 FUSER

Chain-Link	Name	Default	Range	1 Count	Remarks
744-006	Fuser Standby Lamp ON Temp	45	0~99	1 deg.C	Nominal=175 deg.C
744-010	Fuser Standby Lamp OFF Temp	20	0~99	1 deg.C	Nominal=180 deg.C
744-043	Fuser C1 Ready Temperature(T-READY)	35	0~70	1 deg.C	Nominal=165 deg.C
744-061	Fuser Low Run Temperature-(T42)	15	0~40	1 deg.C	Nominal=15 deg.C
744-065	Fuser OHP Run Temperature-(T43)	15	0~40	1 deg.C	Nominal=15 deg.C
744-080	Fuser SSTSctrlExceTM(t13)	30	0~99	1sec	Nominal=30sec
744-081	Fuser SSTSctrlExceAppP(M)	10	0~99	1page	Nominal=10page
744-133	Fuser WU STRT T70(ForSB2)	0	0~99	1 deg.C	Nominal=80 deg.C

Table 8 FUSER

Chain-Link	Name	Default	Range	1 Count	Remarks
744-134	Fuser Standby 2 On Temp(T71)	69	0~70	1 deg.C	Nominal=199 deg.C
744-135	Fuser Standby 2 Off Temp(T72)	50	0~70	1 deg.C	Nominal=200 deg.C
744-180	Fuser Flicker Lamp On TM	7	0~99	1.5ms	10.5 ms
744-181	Fuser Flicker Lamp Off TM	13	0~99	1.5ms	19.5 ms
744-182	Fuser Lamp Change t8	15	0~99	40ms	Wave Control Time (For Flicker Precycle, Cycle) 600ms
744-183	Fuser Lamp Change t9	30	0~99	40ms	Wave Control Time (For Flicker Stby) 1200ms
744-184	Fuser Lamp Change t10	12	0~99	40ms	Wave Control Time (For Flicker Warm Up) 480ms
744-220	Fuser Reset FuserOverTemp	0	0~99	-	0: Reset, 1: FS1 Detected over temp, 2: FS2 Detected over temp, 3: ON time fail, 5: Cold Sagging fail (Only reset is possible in the diagnostics mode.)
744-301	Fuser Very Low Tmp T80	15	0~30	1 deg.C	Nominal=15 deg.C
744-302	Fuser Very Low Tmp T81	10	0~30	1 deg.C	Nominal=180 deg.C
744-303	Fuser Very Low Tmp T82	9	0~20	1 deg.C	Nominal=199 deg.C
744-304	Fuser Very Low Tmp T83	15	0~35	1 deg.C	Nominal=175 deg.C
744-305	Fuser Very Low Tmp TR2	30	0~40	1 deg.C	Nominal=180 deg.C
744-306	Fuser Very Low Tmp tP2	10	0~99	1sec	Nominal=10sec

Chain 749-xxx ROS

Table 9 ROS

Chain-Link	Name	Default	Range	1 Count	Remarks
749-001	ALL TRAY-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-002	TRAY1-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-003	TRAY2-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-004	TRAY3-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-005	TRAY4-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-007	MSI-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-009	DUP ALL TRAY-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-010	DUP TRAY1-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-011	DUP TRAY2-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-012	DUP TRAY3-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-013	DUP TRAY4-LASER SIDE REGI ADJUSTMENT	50	0~99	0.254mm	Not available
749-014	DUP HCF-LASER SIDE REGI ADJUSTMENT	50	1~99	0.254mm	Not available
749-015	DUP MSI-LASER SIDE REGI ADJUSTMENT	50	1~99	0.254mm	Not available
749-516	IMAGE AREA	0	0~1	-	0: NORMAL IMAGE AREA 1: WIDE IMAGE AREA
749-522	END ERASE OFFSET VALUE ADJUSTMENT	50	0~99	0.2175mm	Not available
749-523	SIDE NORMAL ERASE ADJUSTMENT	8	0~16	0.254mm	Nominal=2.032mm
749-524	TOP NORMAL ERASE ADJUSTMENT	9	0~16	0.217mm	Nominal=1.953mm
749-527	END NORMAL ERASE ADJUSTMENT	9	0~18	0.217mm	Nominal=1.953mm

Table 10 Procon

Chain-Link	Name	Default	Range	1 Count	Remarks
751-005	Toner Empty on Toner Cartridge (for CRUM Read)	0	0~1	-	0: Toner Cartridge is not empty 1: Toner Cartridge is empty
752-003	ATC OUT Last 2Dig	70	00~99	1	Not available
752-006	ATC Target Last 2Dig	-	0~99	1	Not available
752-007	Result of ATC Check	-	0~4		0=Low, 1=Normal, 2=High, 3=False, 4=Abnormal end
752-503	Humidity Sensor Judge	-	0~1	1	Not available
752-504	Temperature Sensor Judge	-	0~1	1	Not available
752-509	Toner Empty	0	0~1	1	0: Normal, 1: Abnormal
752-523	Current Humidity	-	0~99	1	Not available
752-541	Current Humidity [deg.C]	-	0~99	1	Not available
752-725	Last 2Digits of LD2	-	00~99	1	Not available
752-893	Last 2Digits of Manual Light Volume Adjustment LDman	0	00~99	1	Not available
752-954	ATC Sensor	0	0~1	1	ATC Sensor / 0: Normal, 1: Abnormal
752-955	Last 2Digits of Delta ATCman	0	0~99	1	ATC manual correction (lower digits)
753-001	Toner Empty (for CRUM Read)	0	0~1	1	Not available
753-003	Toner Recovery in M/C Setup	0	0~1	1	0: Toner recovery is not necessary in the M/C initial setting 1: Toner recovery is necessary in the M/C initial setting (1 appears on the display. Once toner recovery is complete, the IOT FW automatically changes the display to 0.)
753-004	ATC OUT Last 2Digits (for CRUM Read)	70	00~255	1	Not available
753-005	ATC OUT First 2Digits (for CRUM Read)	3	00~255	1	Not available
753-006	ATC Sensor (for CRUM Read)	0	0~1	-	For reading 752-954 data stored in the CRUM.
753-007	CRU New or Old (for CRUM Read)	0	0~1	-	For reading 753-705 data stored in the CRUM.
753-008	Last 2Digits of CRU ATC S	80	0~99	1	Not available
753-009	Exchange DRUM in No CRUM Country	0	0~1	1	Not available
753-612	Toner Refill Rate [mg/s]	22	0~254	1	Not available
753-619	Toner Empty Status	0	0~4	1	Not available
753-645	PreNear Threshold Value (Threshold Value of Remaining Toner [%])	114	0~254	1	Not available
753-673	Remaining Toner [%]	-	0~200	1	Not available
753-705	Flag indicating CRU Layer Formation Complete	0	0~1	1	Not available
753-716	ATC Code (ATC Sensor Properties)	55	0~99	1	Not available
753-717	Toner Recovery Mode	0	0~2	1	0: Disable, 1: Enable, 2: Disable all toner recoveries
753-724	Counter for not peeling off seals	0	0~10	1	Not available
753-725	Last 2Digits of ICDC Accumulative Value since Empty until TC Lower Limit	0	0~99	1	Not available
753-726	First 2Digits of ICDC Accumulative Value since Empty until TC Lower Limit	0	0~99	1	Not available
753-729	CRU Emp_State before Replacement	0	0~4	1	Not available
753-731	PR_VL	87	30~150	1	Not available

Table 10 Procon

Chain-Link	Name	Default	Range	1 Count	Remarks
753-737	Toner Empty Status (for CRUM Read)	0	0~255	1	Not available
753-742	ATC Code (ATC Sensor Properties) (for CRUM Read)	55	0~255	1	Not available

Chain 749-xxx Chain-751-xxx XERO

Table 11 XERO

Chain-Link	Name	Default	Range	1 Count	Remarks
749-016	Pre-Exposure Control	0	0~254	-	0: Off (Always) 254: On (Always) 1~253: On (Drum Cycle mode change) For 1~253 pre-exposure (Drum Cycle mode change), 1 count is equivalent to 1 Kcycle. The recommended value is 122 (Kcycle).
751-034	TRAY1 for Heavyweight3 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
751-035	TRAY2-4, HCF for Heavyweight3 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
751-036	MPT for Heavyweight3 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
751-037	DUP ALL SIZE for Heavyweight3 Paper - LEAD REGI ADJUSTMENT	33	0~66	0.2175mm	Image input is delayed when Set Value is increased.
751-560	Component Control Independent Output Selection	0	0~1	1	0: Simultaneous Output (Independent Output disabled) 1: Independent Output
751-849	Drum Cycle Count	0	0~99	6min	To be deleted after installing Crum.
751-881	BCR Iac Control Drum Cycle Count Threshold	1	0~30	10K Cycle	Valid when BCR Iac Control Switching set to 1 Enable.
751-882	BCR Iac Output SC Under (Below 11 deg.C and Drum Cycle Count under the threshold)	100	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(100):1.60mA
751-883	BCR Iac Output SC Over (Below 11 deg.C and Drum Cycle Count over the threshold)	67	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(67):1.55mA
751-884	BCR Iac Output C Under (11 deg.C below 20 deg.C and Drum Cycle Count under the threshold)	50	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(50):1.45mA
751-885	BCR Iac Output C Over (11 deg.C below 20 deg.C and Drum Cycle Count over the threshold)	17	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(17):1.35mA
751-886	BCR Iac Output B Under (20 deg.C below 28 deg.C and Drum Cycle Count under the threshold)	33	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(33):1.40mA
751-887	BCR Iac Output B Over (20 deg.C below 28 deg.C and Drum Cycle Count over the threshold)	0	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(0):1.30mA
751-888	BCR Iac Output A Under (28 deg.C and above, and Drum Cycle Count under the threshold)	0	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(0):1.30mA
751-889	BCR Iac Output A Over (28 deg.C and above, and Drum Cycle Count over the threshold)	0	0~100	1%	Valid when BCR Iac Control Switching set to 1 Enable. Min(0):1.30mA, Max(100):1.60mA, init(0):1.30mA

Chain 751-xxx CRU

Table 12 CRU

Chain-Link	Name	Default	Range	1 Count	Remarks
751-001	Drum Rotation Time(Cycle Count)(8 Digits)	0	0~255	1	0 returns only in BM. (Because CRUM is not mounted)
751-003	Return Normal CRU MODE	0	0~1	-	Return Normal CRU MODE
751-004	Last 2Digits of Cartridge CRU Print Counter(8 Digits)	0	0~255	1	0 returns only in BM. (Because CRUM is not mounted)
751-010	Drum Life Warning Detection Cycle	22	0~254	12min	Min(0)=1098min, Max(254)=4140min, Initial(120)=2520min
751-011	Drum Life End Stop Cycle	24	0~254	12min	Min(0)=1098min, Max(254)=4140min, Initial(127)=2604min
751-041	Toner Disp Time 0	-	0~255	-	TONER: Dispense motor driving time (the 0th byte)
751-042	Toner Filling 0	-	0~255	-	TONER: The filling up quantity of the toner bottle (the 0th byte)
751-043	Toner Filling 1	-	0~255	-	TONER: The filling up quantity of the toner bottle (the 1st byte)
751-044	Toner Capacity	-	0~255	-	TONER: The capacity of the toner bottle

Chain 764-xxx Finisher

Table 13 Finisher

Chain-link	Name	Default	Range	1 Count	Remarks
764-100	Mix Stack Enable/Disable	0	0~1	-	Not available
764-101	Maximum Set Count	50	0~100	-	Not available
764-102	Maximum Compile Sheet Count for Staple	50	0~100	-	Not available
764-103	Maximum Compile Sheet Count for Un-Staple/Big paper size	25	10~100	-	Not available
764-104	Maximum Compile Sheet Count for Un-Staple/ Small paper size	50	10~100	-	Not available
764-112	Sleep Mode Recovery Indicate	0	0~1	-	Not available

Chain 710-xxx DADF

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 BS5 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
710-800	Belt DADF No Sensor Sensed Static Jam	0	0~65535	Accumulative Jam Counter value. (Write not permitted)

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)
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)

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
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
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

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
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.
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.

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
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 value0ms +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
711-213	DADF Stamp Solenoid On Time Adjustment	5	3~20	2msec	Initial value 10ms +30ms/-4ms, 2ms increments
711-214	DADF Stamp Position Adjustment	15	0~30	0.5mm	Initial value 0mm +7.5mm/-7.5mm, approx. 0.5mm increments Initial value is 10mm from Tail Edge.
711-215	Slow Down Start Time Adjustment Value during Nudger Lift Down (T11 ms)	10	0~20	4msec	Initial value 0ms +/-40ms, 4ms increments

Table 2 CVT DADF NVM LIST

Chain-Link	Content	Default	Range	1 Count	Meaning
711-216	Slow Down Start Time Adjustment Value during Nudger Lift Up (T12 ms)	10	10~20	4msec	Initial value0ms +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
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.
711-475	Invert Solenoid Life Count (lower digits)	41248	0~65535	-	
711-476	DADF Stamp Solenoid Life Count (upper digits)	1	0~65535	-	100K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.
711-477	DADF Stamp Solenoid Life Count (lower digits)	34464	0~65535	-	
711-478	DADF Stamp Solenoid Ink Life Count (upper digits)	0	0~65535	-	3K * Life value may be changed in Counter Write Command. It cannot be written in Chain Link setting.
711-479	DADF Stamp Solenoid Ink Life Count (lower digits)	3000	0~65535	-	

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Chain-Link	Content	Default	Range	Meaning
715-017	IIT Fail Bypass	0	0~1	0: Fail Bypass Off, 1: Fail Bypass On
715-020	No. of APS	1	0~1	0: 1 APS, 1: 2 APS
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)
715-050	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 (2dot/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 (2dot/increment) in CVT. Factory Settings
715-058	CVT FS Offset Side1-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-059	CVT FS Offset Side2-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-060	CVT FS Offset Side1-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-061	CVT FS Offset Side2-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-062	CVT FS Offset Side1-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-063	CVT FS Offset Side2-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/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 (2dot/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 (2dot/increment) in CVT. Factory Settings
715-066	CVT FS Offset Side1-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-067	CVT FS Offset Side2-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-068	CVT FS Offset Side1-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-069	CVT FS Offset Side2-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-070	CVT FS Offset Side1-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-071	CVT FS Offset Side2-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-072	CVT FS Offset Side1-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-073	CVT FS Offset Side2-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-074	CVT FS Offset Side3-1 (139.7-148)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-075	CVT FS Offset Side4-1 (139.7-148)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-076	CVT FS Offset Side3-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-077	CVT FS Offset Side4-2 (182-194)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-078	CVT FS Offset Side3-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-079	CVT FS Offset Side4-3 (203.2)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-080	CVT FS Offset Side3-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-081	CVT FS Offset Side4-4 (210)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/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 (2dot/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 (2dot/increment) in CVT. Factory Settings

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Chain-Link	Content	Default	Range	Meaning
715-084	CVT FS Offset Side3-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-085	CVT FS Offset Side4-6 (254-257)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-086	CVT FS Offset Side3-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-087	CVT FS Offset Side4-7 (266.7-267)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-088	CVT FS Offset Side3-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-089	CVT FS Offset Side4-8 (279.4)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-090	CVT FS Offset Side3-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-091	CVT FS Offset Side4-9 (297)	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-095	WREF_ADJ__BWX	140	70~255	BW-X W-Ref correction coefficient, Factory Settings
715-096	WREF_ADJ__BWY	140	70~255	BW-Y W-Ref correction coefficient, Factory Settings
715-105	WREF_ADJ_BW (Individual Paper)	63	0~127	BW W-Ref correction coefficient for each individual paper type.
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)
715-110	CVT FS Offset Side1	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-111	CVT FS Offset Side2	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-112	CVT FS Offset Side3	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
715-113	CVT FS Offset Side4	120	0~240	Fast Scan Direction Regi Correction Value (2dot/increment) in CVT. Factory Settings
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.
715-299	8K 16K Size / Country Information Switch	0	0~2	0: Priority to country information in Controller 1: GCO (16K/8K=270x195/270x390) 2: TFX (16K/8K=267x194/267x388)
715-300	A6/Postcard Detection	0	0~2	0: Table default 1: A6SEF 2: PostcardSEF (mm series) or PostcardSEF (Inch series)
715-301	8.5x11S / 5.5x8.5L / A4S / A5L Detection	0	0~3	0: Table default 1: 8.5x11S, 5.5x8.5L 2: A4S, A5L 3: 8.5x11S, 5.5x8.5L, A4S, A5L
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
715-304	8K Detection	0	0~2	0: Table default 1: On 2: 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
715-309	11x14.9/11x17 Detection	0	0~2	0: Table default 1: 11x14.9SEF 2: 11x17SEF
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
715-344	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)

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Chain-Link	Content	Default	Range	Meaning
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
715-348	B6 Detection	0	0~2	0: Table default 1: On 2: Off
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
715-560	BWPG Density	128	0~255	Solid PG density of the whole page (0: Black)
715-600	AE1 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)
715-604	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)
715-608	Variation Control for BW 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
715-617	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	RAE Upper Limit 1 of SS Enlargement Correction Value for Adjusting AE Parameter	4000	0~4000	Slow Scan Detection Max range (0.1mm increments) For RAE.
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

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Chain-Link	Content	Default	Range	Meaning
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)
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
715-642	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
715-669	Control of Tracing Paper Mode	0	0~1	0: ,Normal, 1: Tracing Paper mode (* Used as PreIPS C mode as well)
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.
715-720	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, MAESST, NAESS

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
715-800	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)
715-812	PreIPS (X) Recognition Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-813	(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)
715-856	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)
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.

Controller & Fax NVM List

Chain 700-xxx Common

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-006	Configuration	-	1~15	P(rinter), F(ax), C(opy), S(can) are allocated the following bits and are expressed in the following logic. P: 01, F: 02, C 04, S: 08. To differentiate between SP and MF-CSP, SP is allocated 0x09.
700-061	Fax Card Available	-	-2~0	0: Normal, -1: Error, -2: Not installed
700-064	Fax Card Available for Ch0	0=None	0~1	0=None, 1=Available
700-071	USB User Buffer Size	64KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-073	Page Memory Size	-	64~256	bytes (Auto Set)
700-075	ART User Buffer Size	32KB	32~2048	[32KB~2048KB] (32KB increments) Unit: Kbyte
700-076	PostScript Buffer Size	16MB (16x1024)	8~96	[8MB~96MB] (0.25MB increments) Unit: Kbyte
700-078	Form Buffer Size	128KB	128~2048	[128KB~2048KB] Unit: Kbyte
700-080	HPGL/Auto Layout Buffer Size	64KB	64~5120	[64KB~5120KB] (32KB increments) Unit: Kbyte
700-081	Parallel Buffer Size	64KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-082	Port9100 Buffer Size	256KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-083	Lpd Buffer Size	1024KB	1024~2048	[1MB~2MB] (32KB increments) Unit: Kbyte
700-084	NetWare Buffer Size	256KB	1024~2048	[64KB~1MB] (32KB increments) Unit: Kbyte
700-085	AppleTalk Buffer Size	1024KB	64~1024	[1MB~2MB] (32KB increments) Unit: Kbyte
700-086	SMB Buffer Size	256KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-087	IPP Buffer Size	256KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-088	Salutation Buffer Size	256KB	64~1024	[64KB~1MB] (32KB increments) Unit: Kbyte
700-089	HDD Status	-	-2	[0: Installed, -1: Failed, -2: Not installed] (Auto Detect)
700-120	Time Zone	+540 (FX Default) +600 (AP Default) -300 (XC Default)		Displays time difference (min) from GMT. For example, Japan: 540, Hawaii: -600
700-124	Auto Clear Timer	1min (MF: 60, P: 1)	0~240	When entering from the menu, MF: 0 (prohibit), 60, 120, 180, 240 (sec) P: 0 (prohibit), 1~30 (min) When entering from a Chain Link, 0 (prohibit)~240 can be entered for MF and P but for normal operation, they must fall within the above range.

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-125	Job Cancel Timer	10min	0~5940	0, 240~5940: [Prohibit, 4~99min] (1min increments) (The value is different from the MF-UI SOD value. This value is extracted from the COPY SOD.)
700-126	Operating Timer	10sec	0~240	0: Off 1~240: [1~240sec] (1min increments)
700-127	Job End Timer	6sec	0~240	0: Off 1~240: [1~240sec] (1min increments)
700-128	Scanning Timer	4sec	0~20	1~20: [1~20sec (1sec increments)]
700-129	Low Power Mode Timer	Sheeta: 2min	1~240	1~240: [1~240min (1min increments)] 2~60: [2~60min (Sheeta)] (Ignored if not in Low Power mode)
700-130	Sleep Mode Timer	Sheeta: 2min	1~240	1~240: [1~240min (1min increments)] 2~60: [2~60min (Sheeta)] (Ignored if not in Sleep mode)
700-131	Sleep Mode Available	1: Enable	0~1	[0: Disable, 1: Enable]
700-132	Panel Select Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-133	Panel Alert Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-134	Job Complete Tone (Copy)	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-135	Job Complete Tone (without Copy)	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-136	Error Alert Tone	0: Off	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud] (For P Models, there is no volume adjustment. Any setting of soft, normal or loud means On.)
700-137	Job Incomplete Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-138	Ready Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-139	Toner Empty Alert Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-140	Bell Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-141	Line Monitor Tone	2: Normal	1~3	[1: Soft, 2: Normal, 3: Loud]
700-142	Low Power Mode Available	1: Enable	0~1	[0: Disable, 1: Enable]
700-143	Job Memory Entry Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-144	Auto Log Print Flag	0: Off	0~1	0: Off 1: On
700-145	Report Duplex Print	0: Off	0~1	0: Off 1: On
700-146	Mail Box Receive Report	On	0~1	0: Off 1: On
700-147	Protocol Monitor Output Control	When print instruction is specified (0)	0~2	0=When print instruction is specified 1=When error occurs 2=Always
700-148	Broadcast / Multi-Poll Report Print Control	1=Print	0~1	1=Do not print 1=Print
700-149	Relaid Broadcast Report Output Control	Send to Relay Station	0~3	0=Do not print 1=Send to Relay Station 2=Print on machine 3=Send to Relay Station and print on machine
700-150	FAX Communication Report Output Control	Print (1)	0~1	1=Do not print 1=Print
700-151	Transmission Report on Error Output Control	On	0~2	[0=Off, 1=On, 2=Always print] Note: Transmission reports can only be printed from the Panel. However, with Transmission Report=On, when sending fails, undelivered reports will be printed.
700-152	User Abort Transmission Report Output Control	0 (Do not print)	0~1	0=Do not print 1=Print
700-153	No Paper Alert	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-154	Auto Clear Pre Notification Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-155	Base Tone	2: Normal	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-164	Language	1: Japanese 2: English	1~32	1: Japanese, 2: English, 3: French, 4: German, 5: Italian, 6: Spanish, 7: Portuguese, 8: Russian, 9: Simplified Chinese, 10: Korean, 11: Thai, 12: Vietnamese, 13: Traditional Chinese, 14: Dutch, 15: Danish, 16: Swedish, 17: Finnish, 18: Norwegian, 19: Brazilian Portuguese, 20: Bulgarian, 21: Polish, 22: Hungarian, 23: Rumanian, 24: Czech, 25: Greek, 26: Turkish, 27: Arabic, 28: Persian, 29: Hebrew
700-165	Country Code	-	-	0=Not Defined, 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=Philippines, 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, 703=Slovakia, 048=Bahrain, 072=Botswana, 196=Cyprus, 231=Ethiopia, 238=Falklands, 292=Gibraltar, 364=Iran, 376=Israel, 400=Jordan, 414=Kuwait, 422=Lebanon, 586=Pakistan, 634=Qatar, 682=Saudi Arabia, 512=Oman, 784=UAE, 232=Eritrea, 270=Gambia, 288=Ghana, 404=Kenya, 426=Lesotho, 454=Malawi, 470=Malta, 516=Namibia, 566=Nigeria, 736=Sudan, 694=Sierra Leone, 748=Swaziland, 760=Syria, 834=Tanzania, 800=Uganda, 894=Zambia, 887=Yemen, 716=Zimbabwe, 012=Algeria, 450=Madagascar, 480=Mauritius, 148=Chad, 788=Tunisia, 562=Niger, 108=Burundi, 178=Congo, 266=Gabon, 384=Cote dlvoire, 024=Angola, 854=Burkina Faso, 120=Cameroon, 132=Cape Verde, 140=CAR, 180=DR Congo, 466=Mali, 508=Mozambique, 686=Senegal, 690=Seychelles, 768=Togo, 218=Ecuador, 780=Trinidad and Tobago
700-166	Territory	-	PFRSC_SYS_PRODUCT_TERRITORY_AP	[1=FX, 2=XC, 3=XE, 4=AP]
700-171	KO Tools Entry Password	11111		P Models: ASCII '0'~'9' 4 digits MF Models: ASCII '0'~'9' 4~12 digits
700-173	Off Hook Alert	2 (XE)	0~3	[0: Off, 1: Soft, 2: Normal, 3: Loud]
700-174	Transaction Report Log	0	0~2	0: Recipient Name>Remote Terminal Name>Telephone No.>Remote Terminal ID>CCITT XX (Local, M/N common) 1: Give priority to Remote Terminal ID. 2: Give priority to telephone no.
700-175	Transaction Report Display Point	0=Display first 40 digits	0~1	0=Display first 40 digits 1=Display last 40 digits
700-197	Max. Job No.s	600 (O2) 90	90~3000	Set between 90(Min)~300(Max) in increments of 1. (O2) 30~3000
700-198	Job Passing Available	Allow: 1	0~1	Allow: 1, Prohibit: 0
700-301	SEEPROM Serial# (1st digit)	-		Alphanumerics (ASCII)
700-302	SEEPROM Serial# (2nd digit)	-		Alphanumerics (ASCII)
700-303	SEEPROM Serial# (3rd digit)	-		Alphanumerics (ASCII)
700-304	SEEPROM Serial# (4th digit)	-		Alphanumerics (ASCII)
700-305	SEEPROM Serial# (5th digit)	-		Alphanumerics (ASCII)
700-306	SEEPROM Serial# (6th digit)	-		Alphanumerics (ASCII)
700-307	SEEPROM Serial# (7th digit)	-		Alphanumerics (ASCII)
700-308	SEEPROM Serial# (8th digit)	-		Alphanumerics (ASCII)
700-309	SEEPROM Serial# (9th digit)	-		Alphanumerics (ASCII)

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-310	SEEPROM Serial# (10th digit)	-		Alphanumerics (ASCII)
700-311	Battery Backup SRAM Serial# (1st digit)	-		Alphanumerics (ASCII)
700-312	Battery Backup SRAM Serial# (2nd digit)	-		Alphanumerics (ASCII)
700-313	Battery Backup SRAM Serial# (3rd digit)	-		Alphanumerics (ASCII)
700-314	Battery Backup SRAM Serial# (4th digit)	-		Alphanumerics (ASCII)
700-315	Battery Backup SRAM Serial# (5th digit)	-		Alphanumerics (ASCII)
700-316	Battery Backup SRAM Serial# (6th digit)	-		Alphanumerics (ASCII)
700-317	Battery Backup SRAM Serial# (7th digit)	-		Alphanumerics (ASCII)
700-318	Battery Backup SRAM Serial# (8th digit)	-		Alphanumerics (ASCII)
700-319	Battery Backup SRAM Serial# (9th digit)	-		Alphanumerics (ASCII)
700-320	Battery Backup SRAM Serial# (10th digit)	-		Alphanumerics (ASCII)
700-321	SEEPROM Product# (1st digit)	-		Alphanumerics (ASCII)
700-322	SEEPROM Product# (2nd digit)	-		Alphanumerics (ASCII)
700-323	SEEPROM Product# (3rd digit)	-		Alphanumerics (ASCII)
700-324	SEEPROM Product# (4th digit)	-		Alphanumerics (ASCII)
700-325	Battery Backup SRAM Product# (1st digit)	-		Alphanumerics (ASCII)
700-326	Battery Backup SRAM Product# (2nd digit)	-		Alphanumerics (ASCII)
700-327	Battery Backup SRAM Product# (3rd digit)	-		Alphanumerics (ASCII)
700-328	Battery Backup SRAM Product# (4th digit)	-		Alphanumerics (ASCII)
700-329	SEEPROM Product Code (1st digit)	-		Alphanumerics (ASCII)
700-330	SEEPROM Product Code (2nd digit)	-		Alphanumerics (ASCII)
700-331	SEEPROM Product Code (3rd digit)	-		Alphanumerics (ASCII)
700-332	SEEPROM Product Code (4th digit)	-		Alphanumerics (ASCII)
700-333	SEEPROM Product Code (5th digit)	-		Alphanumerics (ASCII)
700-334	SEEPROM Product Code (6th digit)	-		Alphanumerics (ASCII)
700-335	SEEPROM Product Code (7th digit)	-		Alphanumerics (ASCII)
700-336	SEEPROM Product Code (8th digit)	-		Alphanumerics (ASCII)
700-337	Configuration (Info. on SEEPROM)	-		[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 (SEEPROM)	-	1~4	[1=FX, 2=XC, 3=XE, 4=AP]
700-339	IOT ROM Major Version	-		(Auto Set)
700-340	IOT ROM Minor Version	-		(Auto Set)
700-341	IOT ROM Revision Version	-		(Auto Set)
700-342	Sys Main ROM Major	-		(Auto Set)
700-343	Sys Main ROM Minor	-		(Auto Set)
700-344	Sys Main ROM Revision	-		(Auto Set)
700-348	IIT ROM Major	-		(Auto Set)
700-349	IIT ROM Minor	-		(Auto Set)
700-350	IIT ROM Revision	-		(Auto Set)

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-351	DADF ROM Major	-		(Auto Set)
700-352	DADF ROM Minor	-		(Auto Set)
700-353	DADF ROM Revision	-		(Auto Set)
700-360	Product Code (1st digit)	-		Alphanumerics (ASCII)
700-361	Product Code (2nd digit)	-		Alphanumerics (ASCII)
700-362	Product Code (3rd digit)	-		Alphanumerics (ASCII)
700-363	Product Code (4th digit)	-		Alphanumerics (ASCII)
700-364	Product Code (5th digit)	-		Alphanumerics (ASCII)
700-365	Product Code (6th digit)	-		Alphanumerics (ASCII)
700-366	Product Code (7th digit)	-		Alphanumerics (ASCII)
700-367	Product Code (8th digit)	-		Alphanumerics (ASCII)
700-368	Lpd Buffer Size (Memory Spool)	1MB (1x1024)	512~32768	When spooling memory: [512KB~32MB] (256KB increments) Unit: Kbyte
700-373	Fax CH1 ROM Major Version	-		(Auto Set)
700-374	Fax CH1 ROM Minor Version	-		(Auto Set)
700-375	Fax CH1 ROM Revision	-		(Auto Set)
700-376	Fax CH2 ROM Major Version	-		(Auto Set)
700-377	Fax CH2 ROM Minor Version	-		(Auto Set)
700-378	Fax CH2 ROM Revision	-		(Auto Set)
700-382	Fax CH4 ROM Major Version	-		(Auto Set)
700-383	Fax CH4 ROM Minor Version	-		(Auto Set)
700-384	Fax CH4 ROM Revision	-		(Auto Set)
700-389	PCL Buffer Size	64MB (64x1024)	2560~65536	[2.5MB~64MB] (0.25MB increments) Unit: Kbyte
700-390	Memory Size for E-mail Print	256KB (256)	64~1024	64K~1MB Unit: Kbyte
700-396	Auditron Color Mode for Copy	0: Prohibit	0~2	0: Prohibit, 1: BW, 2: BW & Low Price Color
700-397	Default Input Medium Size	44: Letter		5: A4, 44: Letter
700-398	CE Auditron Mode	Display	0~1	0: Do not display, 1: Display
700-399	Default Unit of Measure (mm/inch)	3: Inch	1~3	1: mm, 3: Inch
700-401	Paper Size Group NVM	Value set in Paper Size Group	1~5	[1: Japan, 2: NA (North America), 3: EU, 4: AP, 5: SA (South America)]
700-402	Paper Size Group SEEPROM	Set for each region	1~5	[1: Japan, 2: NA (North America), 3: EU, 4: AP, 5: SA (South America)]
700-410	RAM Disk Size for Print	Standard Memory, 33M Additional 128M, 50M Additional 256M, 66M		This setting is valid only when the HDD is not installed while the Printer Kit is installed. Do not set for other cases. The setting range is 0~[current value + available memory capacity]. Unit is 1M. The current value can be checked using the Settings List report. The available memory capacity can be checked in the Control Panel or the CWIS Memory Settings menu. Note 1: If a value above [current value + available memory capacity] is entered, Factory Settings for all memory settings (including Host IF Receive Buffer, Form Memory etc.) will be restored. Note 2: If the field for Auto Collate printing is also changed, change so that the sum of all increments does not exceed the available memory capacity. Note 3: If set to 0, Auto Collate will be turned off. When setting to 0, always set both this setting and the field for Auto Collate printing to 0.

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-411	RAM Disk Size for Copy	Standard Memory, 33M Additional 128M, 50M Additional 256M, 66M Additional 386M, 100M		This setting is valid only when the HDD is not installed. Do not set for other cases. The setting range is 0~[current value + available memory capacity]. Unit is 1M. The current value can be checked using the Settings List report. The available memory capacity can be checked in the Control Panel or the CWIS Memory Settings menu. Note 1: If a value above [current value + available memory capacity] is entered, Factory Settings for all memory settings will be restored. Note 2: If the field for Auto Collate printing is also changed, so that the sum of all the increments does not exceed the available memory capacity.
700-412	RAM Disk Size for Box	7M		Setting not allowed.
700-420	Download Disable Flag	0: Allow	0~1	0: Allow, 1: Prohibit
700-421	Product ID(1) of Download File	NULL		ASCII
700-422	Product ID(2) of Download File	NULL		ASCII
700-423	Product ID(3) of Download File	NULL		ASCII
700-424	Product ID(4) of Download File	NULL		ASCII
700-425	Product ID(5) of Download File	NULL		ASCII
700-426	Product ID(6) of Download File	NULL		ASCII
700-427	Product ID(7) of Download File	NULL		ASCII
700-428	Product ID(8) of Download File	NULL		ASCII
700-430	Security PKI Mode Level	1: Level 1	1~3	[1: Level 1, 2: Level 2, 3: Level 3]
700-431	Security PKI Certification Type	0: Not registered	0~2	[0: Not registered, 1: Available (Self-generate), 2: Available (Import)]
700-437	Security SSL Enable	0: False Invalid	0~1	[0: False Invalid, 1: True Valid]
700-445	Security SSL Enable	443	433~9999	443, 8000~9999
700-446	Security HDD Overwrite Enable	0: Disable	0~1	[0: Disable, 1: Enable]
700-447	Security HDD Overwrite Count Set	1	1~3	1, 3
700-452	Security SNTP Server Address Valid	0: False	0~1	[0: False, 1: True]
700-453	Security SNTP Server Address	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF
700-454	Security SNTP Info Enable	0: Disable	91	[0: Disable, 1: Enable]
700-455	Security SNTP Info Interval Time	168	1~500	1~500hr
700-490	Stored Document LED ON Control	0: All documents	0~1	0: All documents, 1: Received Fax documents
700-500	iFAX to iFAX Via Box Enable	Off	0~1	1: On, 0: Off
700-501	iFAX to E-mail Via Box Enable	Off	0~1	1: On, 0: Off
700-502	Auto Doc Delete From Box	0: Do not auto delete	0~1	1: Auto delete, 0: Do not auto delete
700-503	Pass Days of Auto Doc Delete From Box	7	1~14	1~14 days
700-504	Hour at Auto Doc Delete From Box	3	0~23	0~23
700-505	Minute at Auto Doc Delete From Box	0	0~59	0~59
700-506	Doc Delete From Box After Client Pull	0: Follow Box settings	0~1	0: Follow Box settings, 1: Delete
700-520	SESAMI Manager Port Number	80	80~9999	80, 8000~9999
700-521	SESAMI Manager Max Sessions	3	1~5	1~5
700-522	SESAMI Manager Connection Timeout	30	1~255	1~255
700-523	SESAMI Job Flow Service Connection Timeout	60	1~900	1~900

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-530	Reboot When Fault Occurs	1: Reboot	0~1	[1: Do not reboot, 0: Reboot]
700-540	Auditron Mode	0: Off	0~2	0: Off, 1: Internal Auditron, 2: Network Accounting
700-541	Auditron Mode Enable for MBOX Print	1: On	0~1	0: Off (Do not limit), 1: On (Limit)
700-542	Auditron Mode Enable for MBOX Output	1: On	0~1	0: Off (Do not limit), 1: On (Limit)
700-543	User Information Memory Location	0: NVM	0~1	0: NVRAM, 1: HDD
700-544	Auditron Check Info Enable	1: Enable	0~1	0: Disable, 1: Enable
700-545	Auditron Password Mode OFF/ON	0: Off	0~1	0: Off, 1: On
700-546	Auditron No Account Action	0: Cancel	0~1	0=Cancel, 1=Store
700-547	Auditron User ID	User ID		1~15 characters (7Bit ASCII)
700-548	Auditron Account ID	Account ID		1~15 characters (7Bit ASCII)
700-549	Auditron Condeal User ID	0: False	0~1	0: False, 1: True
700-550	Auditron Condeal Account ID	0: False	0~1	0: False, 1: True
700-551	Remote Authentication Mode for Scan	0: Off	0~2	0: Off, 1: On, 2: On with Guest
700-552	Remote Authentication Service	0: Kerberos (Windows2000)	0~1	0: Kerberos (Windows2000) 1: Kerberos (Solaris)
700-553	Guest Password	guest		4~12 characters (7Bit ASCII)
700-554	KDC IP Address	0.0.0.0		0.0.0.0~255.255.255.255
700-555	KDC Server Port Number	88	0~65535	Values between 1~65535
700-556	KDC FQDN	Null character		Character below 255bytes valid in FQDN
700-557	KDC Realm Name	Null character		Character string below 64bytes
700-558	DV Pay for Print Forced Store	0=Off	0~1	0=Off, 1=On
700-559	DV Pay for Print XPJL Command Enable	0=Disable	0~1	0=Disable, 1=Enable
700-560	DV Pay for Print Error Account Action	0=Cancel	0~1	0=Cancel, 1=Store
700-561	DV Pay for Print Job Command Enable	0=Disable	0~1	0=Disable, 1=Enable
700-562	No Account User Print Permission	0=Disable	0~1	0=Disable, 1=Enable
700-563	User Auth Error Max Number for Auth Lock	5	0~10	0~10
700-564	User Auth Error Max Number for Access Log	10	0~600	0~600
700-570	HCF ROM Major	-		(Auto Set)
700-571	HCF ROM Minor	-		(Auto Set)
700-572	HCF ROM Revision	-		(Auto Set)
700-573	Finisher ROM Major	-		(Auto Set)
700-574	Finisher ROM Minor	-		(Auto Set)
700-575	Finisher ROM Revision	-		(Auto Set)
700-576	IIT Extension ROM Major	-		(Auto Set)
700-577	IIT Extension ROM Minor	-		(Auto Set)
700-578	IIT Extension ROM Revision	-		(Auto Set)
700-600	Group1(IOT)	-		(Auto Set)
700-601	Group1(SYS1)	-		(Auto Set)
700-602	Group1(SYS2)	-		(Auto Set)

Table 1 Common

Chain-Link	Content	Default	Range	Meaning
700-603	Group2(IOT)	-		(Auto Set)
700-604	Group2(SYS1)	-		(Auto Set)
700-605	Group2(SYS2)	-		(Auto Set)
700-606	Group3(IOT)	-		(Auto Set)
700-607	Group3(SYS1)	-		(Auto Set)
700-608	Group3(SYS2)	-		(Auto Set)

Chain 720-xxx Meter Counter

Table 2 Meter Counter

Chain-Link	Content	Default	Range	Meaning
720-002	Billing	PFV_BILLING_TYPE_1	1~7	[Billing1: 1, Billing2: 2, Billing3: 3, Billing4: 4, Billing5: 5, Billing6: 6, Billing7: 7]
720-003	Master Print-Full Color	-	0~19999999	[0~19,999,999]
720-004	Master Print-Color1	-	0~19999999	[0~19,999,999]
720-005	Master Print-Color2	-	0~19999999	[0~19,999,999]
720-006	Master Print-B	-	0~19999999	[0~19,999,999]
720-007	Master Copy-Full Color Counter	-	0~19999999	[0~19,999,999]
720-008	Master Copy-Color2 Counter	-	0~19999999	[0~19,999,999]
720-009	Master Copy-B Counter	-	0~19999999	[0~19,999,999]
720-010	Master FAX-Full Color Counter	-	0~19999999	[0~19,999,999]
720-011	Master FAX-B Counter	-	0~19999999	[0~19,999,999]
720-012	Backup1 Print-Full Color	-	0~19999999	[0~19,999,999]
720-013	Backup1 Print-Color1	-	0~19999999	[0~19,999,999]
720-014	Backup1 Print-Color2	-	0~19999999	[0~19,999,999]
720-015	Backup1 Print-B	-	0~19999999	[0~19,999,999]
720-016	Backup1 Copy-Full Color Counter	-	0~19999999	[0~19,999,999]
720-017	Backup1 Copy-Color2 Counter	-	0~19999999	[0~19,999,999]
720-018	Backup1 Copy-B Counter	-	0~19999999	[0~19,999,999]
720-019	Backup1 FAX-Full Color Counter	-	0~19999999	[0~19,999,999]
720-020	Backup1 FAX-B Counter	-	0~19999999	[0~19,999,999]
720-046	Master Large Size B Counter	-	0~19999999	[0~19,999,999]
720-047	Master Large Size Color Counter	-	0~19999999	[0~19,999,999]
720-048	Backup1 Large Size B Counter	-	0~19999999	[0~19,999,999]
720-049	Backup1 Large Size Color Counter	-	0~19999999	[0~19,999,999]
720-052	Billing Type	STANDARD: 0	0~2	[STANDARD: 0, CUSTOM1: 1, CUSTOM2: 2]
720-053	Master Modal Color Counter	-	0~19999999	[0~19,999,999]
720-054	Master Modal B Counter	-	0~19999999	[0~19,999,999]
720-055	Backup1 Modal Color Counter	-	0~19999999	[0~19,999,999]
720-056	Backup1 Modal B Counter	-	0~19999999	[0~19,999,999]

Table 2 Meter Counter

Chain-Link	Content	Default	Range	Meaning
720-057	Billing Modal Break Point	10	10~100	[10~100]

Chain 731-xxx Chain 732-xxx Stored Data

Table 3 Stored Data

Chain-Link	Content	Default	Range	Meaning
731-001~999	Speed Dial setting for Modem Speed (Link 1-500)	0: Follow system data for modem speed		[Follow system data for modem speed=0, 2400bps=1, 4800bps=2, 7200bps=3, 9600bps=4, 12000bps=5, 144000bps=6, 16800bps=7, 19200bps=8, 21600bps=9, 24000bps=10, 26400bps=11, 28800bps=12, 31200bps=13, 33600bps=14]
732-001~999	Speed Dial setting for Super G3 (Link 1-500=Dial	0: Do not prohibit	0~1	[0: Do not prohibit, 1: Prohibit]
733-001~999	Speed Dial setting for ECM (Link 1-500=Dial)	0: Do not prohibit	0~1	[0: Do not prohibit, 1: Prohibit]
734-001~999	Speed Dial setting for JBIG (Link 1-500=Dial)	0: Do not prohibit	0~1	[0: Do not prohibit, 1: Prohibit]

Chain 770-xxx I/O Port Protocol

Table 4 I/O Port Protocol

Chain-Link	Content	Default	Range	Meaning
770-001	Parallel Port Enable	1: Enable	0~1	0: Disable, 1: Enable
770-002	Parallel Print ModeType	1: Auto	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 9: 201H, 5: PostScript, 10: TIFF 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-003	Parallel JCL(FX)/PJL(AP) Switch	On	0~1	0: Off, 1: On
770-004	Parallel Adobe Protocol	0: Standard	0~2	0: Standard, 1: Binary, 2: TBCP
770-005	Parallel Auto Feed Time	6 (30sec)	1~255	1~255 (5~1275 sec)
770-006	Parallel Input Prime	On	0~1	0: Off, 1: On
770-007	Parallel COMM Mode	On	0~1	0: On, 1: Off
770-009	Parallel Corresponding Standard	0: IEEE P1284	0~1	0: IEEE P1284, 1: Centronics
770-010	Ethernet Transfer Rate	127: Auto	1~127	127: Auto, 11: 10BASE-T (Half-Duplex), 12: 100BASE-TX (Half-Duplex), 21: 10BASE-T (Full Duplex), 22: 100BASE-TX (Full Duplex)
770-020	TokenRing Transfer Rate	Auto		Auto: 4, 4MB/s: 1, 16MB/s: 2, 100MB/s: 3
770-021	TokenRing Packet Length	1500		1500, 2088, 4472, 8232
770-022	TokenRing SRC Routing	Disable		Enable: 1, Disable: 0
770-030	NetWare Frame Type	255: Auto	0~255	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	EtherTalk Port Enable	0: Disable	0~1	0: Disable, 1: Enable
770-041	EtherTalk Print Type	5: PostScript		5: PostScript
770-042	EtherTalk JCL(FX)/PJL(AP) Enable	On	0~1	0: Off, 1: On

Table 4 I/O Port Protocol

Chain-Link	Content	Default	Range	Meaning
770-050	Netware Port Enable	0: Disable	0~1	0: Disable, 1: Enable
770-051	Netware Print Mode Type	1: Auto	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-052	Netware JCL(FX)/PJL(AP) Enable	On	0~1	0: Off, 1: On
770-053	NetWare TBCP Valid	0: None	0~1	0: None, 1: TBCP
770-054	NetWare Trans. Protocol	1: IPX/SPX	1~3	1: IPX/SPX, 2: TCP/IP, 3: Both
770-060	Lpd Port Enable	1: Start	0~1	0: Stop, 1: Start
770-061	Lpd Print Mode Type	1: Auto	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-062	Lpd JCL(FX)/PJL(AP) Enable	On	0~1	0: Off, 1: On
770-063	TBCP Valid Flag	0: None	0~1	0: None, 1: TBCP
770-064	Lpd Spool Mode	0: Non Spool	0~1	0: Non Spool, 1: Spool
770-065	Lpd Timeout	16sec	2~3600	2~3600sec (Setting range: 2~65,535)
770-068	Lpd Port No.	515		515, 8000~9999
770-070	Lpd Address Limitation	0: Do not limit	0~1	0: Do not limit, 1: Limit
770-071	Lpd Valid IP Address 1	0.0.0.0		00000000~FFFFFFFF
770-072	Lpd Valid IP Address 2	0.0.0.0		00000000~FFFFFFFF
770-073	Lpd Valid IP Address 3	0.0.0.0		00000000~FFFFFFFF
770-074	Lpd Valid IP Address 4	0.0.0.0		00000000~FFFFFFFF
770-075	Lpd Valid IP Address 5	0.0.0.0		00000000~FFFFFFFF
770-077	SMTP Port No.	25	1~65535	25, 8000~9999
770-080	SMB Port Enable	1: Enable	0~1	0: Enable, 1: Disable
770-081	SMB Print Mode Type	1: Auto	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-082	SMB JCL(FX)/PJL(AP) Enable	On	0~1	0: Off, 1: On
770-083	SMB TBCP Valid Flag	0: None	0~1	0: None, 1: TBCP
770-084	SMB Spool Mode	0: Non Spool	0~1	0: Non Spool, 1: Spool
770-085	SMB Transport Protocol	6: Both	2~6	2: TCP/IP, 4: NetBeui, 6: Both
770-090	IPP Port Enable	0: Disable	0~1	0: Disable, 1: Enable
770-091	IPP Print Mode Type	1: Auto	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-092	IPP JCL(FX)/PJL(AP) Enable	On	0~1	0: Off, 1: On
770-093	IPP TBCP Valid Flag	0: None	0~1	0: None, 1: TBCP
770-094	Acl Authorisation	0: Off (none)	0~1	1: On (local), 0: Off (none)
770-095	Use DNS Name	1: On	0~1	1: On, 0: Off
770-097	Port no.	80	0~9999	One of 0, 80, 8000~9999
770-098	IPP Spool Mode	0: Non Spool	0~1	0: Non Spool, 1: Spool
770-099	Timeout of IPP Port	60	0~65535	0~65535[sec]
770-100	DHCP Mode	2: DHCP	1~0x10	0x10: Manual, 4: BOOTP, 2: DHCP, 1: RARP
770-101	IP Address	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF

Table 4 I/O Port Protocol

Chain-Link	Content	Default	Range	Meaning
770-102	Subnet Mask	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF
770-103	Gateway Address	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF
770-110	DNS Auto Config.	DHCP	0~0x10	0x10: Manual setting, 0x02: DHCP
770-112	DNS Domain Name	NULL		DNS Domain Name (Usually 255 characters including the last "." that is not displayed.)
770-120	WINS Auto Config	DHCP		0x10: Manual setting, 0x02: DHCP
770-121	WINS Server Address 1	0.0.0.0		00000000~FFFFFFFF
770-123	WINS Server Address 2	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF
770-130	Agent Port Enable	1: Enable	0~1	0: Disable, 1: Enable
770-131	Agent Transport Flag	2: UDP	0~3	0: Both Off, 1: IPX, 2: UDP, 3: Both On
770-133	Agent Community Name 1 ~ 10	NULL (Replace with "fxSystemMgr" on the PDU)		JISX0201 character code 12 characters
770-140	EWS Port Enable	1: Enable	0~1	0: Disable, 1: Enable
770-150	Salutation Port Enable	0: Disable	0~1	0: Disable, 1: Enable
770-160	MFIO Port Enable	0: Disable	0~1	0: Disable, 1: Enable
770-166	HTTP Max Session	5	1~10	1~10
770-190	Mail Service Start/Stop	1: Start	1	1: Start, 0: Stop
770-191	Address of Mail Sender	NULL		ASCII Max no. of characters 128 (Character type: alphabet, [@] [.] [+] [-] [=] [_] (underscore) [/] [<] [>]) in the format username@domain.name
770-202	SMTP Mail Server IP Address	0.0.0.0	00000000~FFFFFFFF	00000000~FFFFFFFF
770-222	port9100 Starting setup	1	0~1	0: Disable 1: Enable
770-250	USB Adobe Protocol	Standard	0~2	0: Standard 1: Binary 2: TBCP
770-251	USB JCL(FX)/PJL(AP) Enable	On	0~1	0: Off 1: On
770-252	USB Print Mode Type	Auto	1~29	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 setting range.
770-254	USB Port Enable	Enable	0~1	0: Disable 1: Enable
770-255	USB Auto Feed Time	6 (30sec)	1~255	1~255 (5~1275 sec)
770-280	Mail Print Starting Setup	1: Enable	0~1	0: Disable, 1: Enable
770-281	Mail Print File Type	10 :TIFF	1~29	1: Auto, 14: Dump, 15: ART, 16: PLW, 3: HPGL2, 8: ESCP, 5: PostScript, 10: TIFF, 2: PCL, 17: KS5843, 18: KSSM, 29: KS5895
770-282	Mail Print JCL Switch	On	0~1	0: Off, 1: On
770-283	Mail Print Filter	None	0~1	0: None, 1: TBCP
770-284	Mail Print Spool Type	0: Non Spool	0~1	0 : Non Spool (Ring Buffer), 1: Spool (RAM Disk)
770-285	Mail Print with Header Print	1: Print all headers and contents	0~3	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		-
770-287	POP Server Password	NULL		-

Table 4 I/O Port Protocol

Chain-Link	Content	Default	Range	Meaning
770-290	UPnP Enable	1: Enable	0~1	0: Disable 1: Enable
770-295	BMLinkS Print Service Enable	1: Enable	0~1	0: Disable 1: Enable
770-320	Sesami Port Enable	1: Enable	0~1	0: Disable, 1: Enable

Chain 770-xxx 840-xxx Scan Service

Table 5 Scan Service

Chain-Link	Content	Default	Range	Meaning
770-301	LDAP Server Name Primary	NULL		Within 64bytes. Refer to RFC1034 for the available characters.
770-302	LDAP Server Address Primary	NULL		Within 4bytes. Invalid if FQDN is specified. Invalid if retrieval by DHCP is specified. 1.1.1.1~254.254.254.254
770-303	LDAP Server Port Number Primary	389	1~65535	1~65535
770-304	LDAP Server Name Secondary	NULL		Within 64bytes. Refer to RFC1034 for the available characters.
770-305	LDAP Server Address Secondary	NULL		Within 4bytes. Invalid if FQDN is specified. Invalid if retrieval by DHCP is specified. 1.1.1.1~254.254.254.254
770-306	LDAP Server Port No. Secondary	389	1~65535	1~65535
840-001	Scan Service Enable	Enable	0~1	[0: Enable, 1: Disable]
840-002	Scan Illegal Opeartion	Enable stored documents	0~1	[0: Discard stored documents, 1: Enable stored documents]
840-003	MAX Store No. in Scan Service	999 sheets	1~999	[1~999 sheets]
840-004	Brightness3 Setting in Scan Service	192: [-92(density)]	0~200	0~200: [-100~100]
840-005	Brightness2 Setting in Scan Service	161: [-61(density)]	0~200	0~200: [-100~100]
840-006	Brightness1 Setting in Scan Service	131: [-31(density)]	0~200	0~200: [-100~100]
840-007	Brightness-1 Setting in Scan Service	99: [1(density)]	0~200	0~200: [-100~100]
840-008	Brightness-2 Setting in Scan Service	98: [2(density)]	0~200	0~200: [-100~100]
840-009	Brightness-3 Setting in Scan Service	97: [3(density)]	0~200	0~200: [-100~100]
840-010	Contrast [Hard] Setting in Scan Service	150: [50]	0~200	0~200: [-100~100]
840-011	Contrast [Medium Hard] Setting in Scan Service	125: [25]	0~200	0~200: [-100~100]
840-012	Contrast [Medium Soft] Setting in Scan Service	75: [-25]	0~200	0~200: [-100~100]
840-013	Contrast [Soft] Setting in Scan Service	50: [-50]	0~200	0~200: [-100~100]
840-019	RGB Color Space in Scan Service	[Color Space]: 0	0~1	[Color Space]: 0 [Device]: 1
840-021	Scan ACS Display	1: Display	0~1	[0: Do not display, 1: Display]
840-024	Remove Bleed Through Level in Scan	Standard	0~4	0: Low, 1: Lower, 2: Standard, 3: Higher, 4: High
840-080	ABL LDAP Valid	Allow	0~1	1: Allow, 0: Prohibit
840-081	ABL LDAP CN	cn		Character string within 32bytes.
840-082	ABL LDAP SN	sn		Character string within 32bytes.
840-083	ABL LDAP Given Name	given name		Character string within 32bytes.
840-084	ABL LDAP Mail	mail		Character string within 32bytes.

Table 5 Scan Service

Chain-Link	Content	Default	Range	Meaning
840-085	ABL LDAP Alt Name1			Character string within 16bytes.
840-086	ABL LDAP Alt Name1 Type	telephone number		Character string within 32bytes.
840-087	ABL LDAP Alt Name2			Character string within 16bytes.
840-088	ABL LDAP Alt Name2 Type	o		Character string within 32bytes.
840-089	ABL LDAP Alt Name3			Character string within 16bytes.
840-090	ABL LDAP Alt Name3 Type	ou		Character string within 32bytes.
840-091	ABL LDAP Max Hit Count	50		5~100
840-092	ABL LDAP DN	NULL		Within 256bytes. Do not set if LDAP authentication is not required.
840-093	ABL LDAP Password	NULL		Within 32bytes. Do not set if password is not required in LDAP authentication.
840-094	ABL LDAP Root	NULL		Within 255bytes.
840-095	ABL LDAP Scope	All levels below root entry	1~3	1: Root entry only, 2: One level below root entry only, 3: All levels below root entry
840-096	ABL LDAP Object Class	*		Within 32bytes.
840-097	ABL LDAP Timeout	30		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	ABL LDAP Directory Application	NULL		0: None, 1: Microsoft) ActiveDirectory or Microsoft) ExchangeServer5.5, 2: Novel) NetWare5.* Mapping of properties for retrieval and LDAP properties are done based on this setting.

Chain 780-xxx IOT

Table 6 IOT

Chain-Link	Content	Default	Range	Meaning
780-013	Tray1 Paper Type	1: Plain	1~255	1: STATIONARY, 2: TRANSPARENCY, 3: ENVELOPE, 4: ENVELOPE_PLAIN, 5: ENVELOPE_WINDOW, 6: LABEL, 7: FORM, 8:COATING1, 9: TRACABLE, 10: THICK1, 11:THICK1_REV, 12: THICK2, 13: THICK2_REV, 14: RECYCLED, 15: CONTINUOUS_LONG, 16: CONTINUOUS_SHORT, 17: TAB_STOCK, 18: MULTI_LAYER, 19: OPAQUE_FILM, 20: TACK_FILM, 21: THIN, 22: FINE, 23: USER1, 24: USER2, 25: USER3, 26: USER4, 27: USER5, 28: OTHER, 29: WRAPPINGPAPER, 30: EXLUSTERPAPER, 31: COATING2, 32: COATING1_REV, 33: COATING2_REV, 34: THICK1_FINISHER, 35: COATING1_FINISHER, 36: THICK1_A, 37: THICK1_B, 38: THICK1_C, 39: THICK1_S, 40: THICK2_A, 41: THICK2_B, 42: THICK2_C, 43: THICK2_D, 44: THICK2_S, 45: THICK1_FINISHER_A, 46: THICK1_FINISHER_B, 47: THICK1_FINISHER_C, 48: THICK1_FINISHER_S, 49: HAGAKI, 50: HAGAKI_REV, 51: STATIONARY_REV, 52: FINE_REV, 53: RECYCLED_REV, 54: SPECIAL, 55: SPECIAL_REV 56: USED, 57: PREPUNCHED, 58: TAB_THICK1, 59: TAB_THICK2.
780-014	Tray2 Paper Type	1: Plain	1~255	Same as above
780-015	Tray3 Paper Type	1: Plain	1~255	Same as above
780-016	Tray4 Paper Type	1: Plain	1~255	Same as above
780-018	SMH Paper Type	1: Plain	1~255	Same as above
780-019	Custom Paper Name 1	NULL		ASCII numerals, symbols Max. 24 characters (M/N)

Table 6 IOT

Chain-Link	Content	Default	Range	Meaning
780-020	Custom Paper Name 2	NULL		Same as above
780-021	Custom Paper Name 3	NULL		Same as above
780-022	Custom Paper Name 4	NULL		Same as above
780-023	Custom Paper Name 5	NULL		Same as above
780-038	Image Quality Control Category: Reverse	2	2	2:Plain B
780-050	Paper Type Priority: High Quality Paper	3	1~255	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 255 Duplication allowed. n is the max. no. of settings for paper type.
780-051	Paper Type Priority: Plain Paper	1	1~255	Same as above
780-052	Paper Type Priority: Recycled Paper	2	1~255	Same as above
780-053	Paper Type Priority: Custom 1	X (Not applicable for ATS)	1~255	Same as above
780-054	Paper Type Priority: Custom 2	X (Not applicable for ATS)	1~255	Same as above
780-055	Paper Type Priority: Custom 3	X (Not applicable for ATS)	1~255	Same as above
780-056	Paper Type Priority: Custom 4	X (Not applicable for ATS)	1~255	Same as above
780-057	Paper Type Priority: Custom 5	X (Not applicable for ATS)	1~255	Same as above
780-060	Tray 1 Priority	1	1~4	1~4: 1, 2, 3, 4 Priority is in order of the numbers with 1 first in priority.
780-061	Tray 2 Priority	2	1~4	Same as above
780-062	Tray 3 Priority	3	1~4	Same as above
780-063	Tray 4 Priority	4	1~4	Same as above
780-069	Image Enhancement Enable	ON	0~1	0: OFF, 1: ON
780-072	Center Tray Offset Enable	Offset per set	1~3	1: Offset per set, 2: Offset per job, 3: No offset
780-073	Finisher Tray Offset Enable	Offset per set	1~3	1: Offset per set, 2: Offset per job, 3: No offset
780-075	Stop Printing When Drum Life Ends	1: Stop printing	0~1	TRUE (1): Stop printing, FALSE (0): Do not stop printing
780-084	Paper Type Priority: Reverse	X	1~255	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 255 Duplication allowed. n is the max. no. of settings for paper type.
780-141	Center Tray2 Offset Enable	Offset per set	1~3	1: Offset per set, 2: Offset per job, 3: No offset
780-142	Forced Duplex	0	0~1	0: 1 Sided, 1: 2 Sided
780-145	IOT Control Offset Mode Staple	Offset per set	1~3	1: Offset per set, 2: Offset per job, 3: No offset
780-146	IOT Control Non Same FS Mix Size Staple	Release	0~1	TRUE (1): Staple, FALSE (0): Release
780-147	Max Staple Capacity	50 sheets	10~150	1 Count=1 Sheet
780-151	Max Booklet Capacity	15 sheets	2~25	2~25 sheets
780-153	Medium Type APS Ignore Confirm	1: Confirm and await user action	0~1	TRUE (1): Confirm and await user action, FALSE (0): Ignore and continue
780-161	IOT Control SMH Free Size Detect	Auto Size Detect	0~1	TRUE (1): Detect free size, FALSE (0): Auto Size Detect
780-162	Tray1 Medium Attribute	None	0~2	0: None, 1: BW, 2: Color
780-163	Tray2 Medium Attribute	None	0~2	0: None, 1: BW, 2: Color
780-164	Tray3 Medium Attribute	None	0~2	0: None, 1: BW, 2: Color
780-165	Tray4 Medium Attribute	None	0~2	0: None, 1: BW, 2: Color

Chain 785-xxx IIT

Table 7 IIT

Chain-Link	Content	Default	Range	Meaning
785-002	ACS Separate Level	Normal	0~5	1: More Black, 2: Black, 3: Normal, 4: Color, 5: More Color
785-003	Image Processing Method of FAX Photo	Error Diffusion	0~1	0: Error Diffusion (1bit, ED), 1: Dither
785-008	DADF Control Type	2: PF2	0~2	[0: None, 1: PF1, PF2]
785-010	FAX Document Size Detect Method in DADF	1	0~1	0: A/B series, 1: Inch series
785-015	Text / Photo Detect Level	Normal	1~5	1: More Text, 2: Text, 3: Normal, 4: Photo, 5: More Photo
785-016	Photo Reproduce Level	Normal	1~5	1: More Text, 3: Normal, 5: More Photo
785-024	Adjust 100 Fast Scan	100.0%	980~1020	980: 98.0%~1020: 102.0%, 0.1% increments
785-025	Adjust 100 Slow Scan	100.0%	980~1020	980: 98.0%~1020: 102.0%, 0.1% increments
785-026	DADF Adjust 100	Do not apply	0~1	0: Do not apply, 1: Apply
785-027	Copy Photo Process Errdifusion or Dither	Error Diffusion	0~1	0: Error Diffusion, 1: Dither
785-028	CVT Org Size Required Off/On	1: Required	0~1	0: Not required, 1: Required
785-030	Copy APS Size OFF/ON[5.5.x8.5(State-ment)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-031	Copy APS Size OFF/ON[A5]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-032	Copy APS Size OFF/ON[B5]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-033	Copy APS Size OFF/ON[8.25x10.5(Execu-tive)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-034	Copy APS Size OFF/ON[8x10]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-035	Copy APS Size OFF/ON[16K]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-036	Copy APS Size OFF/ON[8.5x11(Letter)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-037	Copy APS Size OFF/ON[A4]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-038	Copy APS Size OFF/ON[8.5x13(Foolscap)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-039	Copy APS Size OFF/ON[8.5x14(Legal)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-040	Copy APS Size OFF/ON[B4]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-041	Copy APS Size OFF/ON[8K]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-042	Copy APS Size OFF/ON[11x17(Ledger)]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-043	Copy APS Size OFF/ON[A3]	Set for each region	0~1	[0: Not applicable, 1: Applicable]
785-050	Original Application Range	0	0~1	0: Apply only for that original, 1: Apply for all subsequent non-standard sized originals
785-080	Copy Edge Erase Margin	5	0~10	0~10mm (1mm increments)

Chain 790-xxx UI

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-001	Start Up Display Setting	Settings List	0~2	0: Settings List, 1: Job Management, 2: Machine Information
790-002	Function Set Display Setting	1	0~3	0: Menu, 1: Copy, 2: Fax, 3: Scan

Chain-Link	Content	Default	Range	Meaning
790-003	FAX Broadcast / Multi-Poll Display	1: Display	0~1	0: Do not display, 1: Display
790-050	Preset Tray 1 in Copy	Tray 1	0~255	0 : None (not in use) 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: MPT, 6: HCF1, 7: HCF2
790-051	Preset Tray 2 in Copy	Tray 2	0~255	Same as above
790-052	Preset Tray 3 in Copy	MPT	0~255	Same as above
790-053	Preset Tray 4 in Copy	None	0~255	Same as above
790-060	Preset Reduce/Enlarge 1 in Copy	R/E Preset 2 (FX, AP) R/E Preset 3 (XC) R/E Preset 4 (XE): 3	0~12	0: None 1~12: R/E Preset 1 ~ R/E Preset 12
790-061	Preset Reduce/Enlarge 2 in Copy	R/E Preset 7 (FX, AP) R/E Preset 5 (XC) R/E Preset 6 (XE): 5	12	Same as above
790-062	Preset Reduce/Enlarge 3 in Copy	None (HBUI default)	12	Same as above
790-070	Default Tray in Copy	Auto	0~5	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: MPT Refer to the Copy Service Func FF for the setting range.
790-071	Default Tray on Release ATS in Copy	Tray 1		1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4 Refer to the Copy Service Func FF for the setting range.
790-072	Default Reduce/Enlarge in Copy	1	0~255	0:100% 1~12: R/E Preset 1 ~ R/E Preset 12 255: Auto
790-073	Fixed Reduce/Enlarge 1 in Copy	XE/DMO-E: 1001 (25%), DMO-W: 1003 (50%), XC:1001 (25%)	25~1025	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	Fixed Reduce/Enlarge 2 in Copy	XE/DMO-E: 1003(50%), DMO-W: 1006 (64.7%), XC:1003(50%)	1001~1025	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	Fixed Reduce/Enlarge 3 in Copy	XE/DMO-E: 1007(70.7%), DMO-W: 1007 (70.7%), XC:1006(64.7%)	1001~1025	Same as above
790-076	Fixed Reduce/Enlarge 4 in Copy	XE/DMO-E: 1012(97.3%), DMO-W: 1008 (78.5%), XC:1008(78.5%)	1001~1025	Same as above
790-077	Fixed Reduce/Enlarge 5 in Copy	XE/DMO-E: 1017(141.4%), DMO-W: 1012 (97.3%), XC:1016(129.4%)	1001~1025	Same as above
790-078	Fixed Reduce/Enlarge 6 in Copy	XE/DMO-E: 1022(200%), DMO-W: 1017 (141.4%), XC:1025(400%)	1001~1025	Same as above
790-079	Fixed Reduce/Enlarge 7 in Copy	XE/DMO-E: 1025(400%), DMO-W: 1017 (141.4%), XC:1025(400%)	1001~1025	Same as above
790-094	Default BW Original Type in Copy	Text	1~4	1: Text, 2: Text & Photo, 3: Photo, 4: Pencil Text
790-097	Default Background Suppression in Copy	On	0~1	0: Off, 1: On
790-098	Default Density Adjustment in Copy	Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
790-099	Mixed Size Default	Off	0~1	0 : Off, 1: On
790-122	Default Sharpness in Copy	Normal	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-124	Default Center / Corner Shift Position (Side1)	None	0~9	0: None, 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
790-125	Default Center / Corner Shift Position (Side2)	Opposite to Side 1	0~10	0: None, 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: Opposite to Side 1
790-128	Center Erase in Copy	0 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-129	Rotation Enable in Copy	ON only for APS/AMS	0~2	0: Always ON 1: ON only for APS/AMS 2: Always OFF
790-130	Default of Direction of Image	Finisher models: Auto, No Finisher: Portrait Original - Left Edge	0~2	0: Auto, 1: Portrait Original - Left Edge, 2: Portrait Original - Right Edge
790-131	Fixed Original Size 1 in Copy	XE/DMO-E: 10 (A3S), DMO-W: 10 (A3S), XC: 89 (8.5x11L)	2~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-132	Fixed Original Size 2 in Copy	XE/DMO-E: 12 (A4SEF), DMO-W: 12 (A4SEF), XC: 90 (8.5x11SEF)	1~255	Same as above
790-133	Fixed Original Size 3 in Copy	XE/DMO-E: 11 (A4LEF), DMO-W: 11 (A4LEF), XC: 92 (8.5x14SEF)	1~255	Same as above
790-134	Fixed Original Size 4 in Copy	XE/DMO-E: 14 (A5SEF), DMO-W: 14 (A5SEF), XC: 80 (11x17SEF)	1~255	Same as above
790-135	Fixed Original Size 5 in Copy	XE/DMO-E: 16 (A6SEF), DMO-W: 16 (A6SEF), XC: 112 (5.5x8.5SEF)	1~255	Same as above
790-136	Fixed Original Size 6 in Copy	XE/DMO-E: 66 (B4SEF), DMO-W: 66 (B4SEF), XC:120 (7.25x10.5SEF)	1~255	Same as above
790-137	Fixed Original Size 7 in Copy	XE/DMO-E: 68 (B5SEF), DMO-W: 68 (B5SEF), XC:110 (5x7SEF)	1~255	Same as above
790-138	Fixed Original Size 8 in Copy	XE/DMO-E: 67 (B5LEF), DMO-W: 67 (B5LEF), XC:107 (4x6SEF)	1~255	Same as above
790-139	Fixed Original Size 9 in Copy	XE/DMO-E: 80 (11x17SEF), DMO-W: 92 (8.5x14SEF), XC:12 (A4SEF)	1~255	Same as above
790-140	Fixed Original Size 10 in Copy	XE/DMO-E: 118 (8.5x13SEF), DMO-W: 118 (8.5x13SEF), XC:11 (A4LEF)	1~255	Same as above
790-141	Fixed Original Size 11 in Copy	XE/DMO-E: 89 (8.5x11LEF), DMO-W: 89 (8.5x11LEF), XC:10 (A3SEF)	1~255	Same as above

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-180	Default of Right Image direction	Head to Top	0~1	0: Head to Top, 1: Head to Left
790-181	Default Duplex Setting	None	0~3	0: None (1->1 Sided), 1: 1->2 Sided, 2: 2->1 Sided, 3: 2->2 Sided
790-182	Default Sort Mode in Copy	Auto	0~2	0: Auto, 1: Collate, 2: Uncollated
790-183	Default Exit Tray in Copy	Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
790-184	Sending Display Enable	Off	0~1	0: Off 1: On
790-185	Initial Display of Address	Off	0~1	0: Off 1: On
790-186	Default Communication Mode in FAX	G3 Auto	0~6	1 : G4 Auto, 2: G3 Auto, 3: F4800 (Communication speeds below 4800bps) The following are additional settings for M/N: 4 : G3 5 : G3 (ECM) 6 : G3 (ECM) ? Forced4800
790-187	Default Scanning Density in FAX	Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
790-188	Default Original Type in FAX	Text	0~2	0=Text, 1=Photo, 2=Text & Photo
790-189	Default Scanning Resolution in FAX	Standard	0~3	0: Standard, 1: Fine (200x200), 2: Fine (400x400), 3: Fine (600x600)
790-190	FAX Monitor Print Enable	Off	0~1	0: Off 1: On
790-192	Send Header Enable	On	0~1	0: Off 1: On
790-193	Destination Table in FAX	1	1~999999	1~999999
790-194	Mix Size Enable in FAX	Off	0~1	0: Off 1: On
790-195	FAX Receive Mode	Auto Receive	0~1	0 : Auto Receive, 1: Manual Receive
790-196	Delayed Send Time Setting-hour	21	0~23	Hour (0~23)
790-197	Delayed Send Time Setting-minutes	0	0~59	Minute (0~59)
790-198	FAX Manual Send Receive	Manual Receive	0~1	0 : Manual Receive, 1: Auto Receive
790-200	Fixed Reduce/Enlarge 1 in FAX	XE/DMO-E: 1003 (50%), DMO-W: 1003 (50%), XC: 1003 (50%)	25~1025	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%, 1025: 400.00%
790-201	Fixed Reduce/Enlarge 2 in FAX	XE/DMO-E: 1007 (70.7%), DMO-W: 1006 (64.7%), XC: 1006 (64.7%)	25~1025	Same as above
790-202	Fixed Reduce/Enlarge 3 in FAX	XE/DMO-E: 1009 (81.6%), DMO-W: 1007 (70.7%), XC: 1008 (78.5%)	25~1025	Same as above
790-203	Fixed Reduce/Enlarge 4 in FAX	XE/DMO-E: 1012 (97.3%), DMO-W: 1008 (78.5%), XC: 1012 (97.3%)	25~1025	Same as above
790-204	Fixed Reduce/Enlarge 5 in FAX	XE/DMO-E: 1017 (141.4%), DMO-W: 1012 (97.3%), XC: 1016 (129.4%)	25~1025	Same as above
790-205	Fixed Reduce/Enlarge 6 in FAX	XE/DMO-E: 1022 (200%), DMO-W: 1016 (129.4%), XC: 1023 (220%)	25~1025	Same as above
790-206	Fixed Reduce/Enlarge 7 in FAX	XE/DMO-E: 1025 (400%), DMO-W: 1017 (141.4%), XC: 1025 (400%)	25~1025	Same as above

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-210	Fixed Original Size 1 in FAX Scan	XE/DMO-E: 10 (A3SEF), DMO-W: 10 (A3SEF), XC: 89 (8.5x11LEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-211	Fixed Original Size 2 in FAX Scan	XE/DMO-E: 12 (A4SEF), DMO-W: 12 (A4SEF), XC: 90 (8.5x11SEF)	255	Same as above
790-212	Fixed Original Size 3 in FAX Scan	XE/DMO-E: 11 (A4LEF), DMO-W: 11 (A4LEF), XC: 92 (8.5x14SEF)	255	Same as above
790-213	Fixed Original Size 4 in FAX Scan	XE/DMO-E: 14 (A5SEF), DMO-W: 14 (A5SEF), XC: 80 (11x17SEF)	1~255	Same as above
790-214	Fixed Original Size 5 in FAX Scan	XE/DMO-E: 16 (A6SEF), DMO-W: 16 (A6SEF), XC: 112 (5.5x8.5SEF)	1~255	Same as above
790-215	Fixed Original Size 6 in FAX Scan	XE/DMO-E: 66 (B4SEF), DMO-W: 66 (B4SEF), XC: 120 (7.25x10.5SEF)	1~255	Same as above
790-216	Fixed Original Size 7 in FAX Scan	XE/DMO-E: 68 (B5SEF), DMO-W: 68 (B5SEF), XC: 109 (5x7LEF)	1~255	Same as above
790-217	Fixed Original Size 8 in FAX Scan	XE/DMO-E: 67 (B5LEF), DMO-W: 67 (B5LEF), XC: 107 (4x6LEF)	1~255	Same as above
790-218	Fixed Original Size 9 in FAX Scan	XE/DMO-E: 80 (11x17SEF), DMO-W: 92 (8.5x14SEF), XC: 12 (A4SEF)	1~255	Same as above
790-219	Fixed Original Size 10 in FAX Scan	XE/DMO-E: 118 (8.5x13SEF), DMO-W: 118 (8.5x13SEF), XC: 11 (A4LEF)	1~255	Same as above
790-220	Fixed Original Size 11 in FAX Scan	XE/DMO-E: 89 (8.5x11LEF), DMO-W: 89 (8.5x11LEF), XC: 10 (A3SEF)	1~255	Same as above
790-221	iFAX Profile	TIFF-S	0~2	[0: TIFF-S, 1: TIFF-F, 2: TIFF-J]
790-222	Mix Size Enable in Scan	Off	0~1	0: Off 1: On
790-223	Default Color Mode in Scan	1	0~3	0 : Full Color, 1: Grayscale, 2: Dual Color, 3: Auto
790-224	Default Original Type in Scan	Text	0~2	0 : Text, 1: Photo, 2: Text & Photo
790-225	Default Scanning Resolution in Scan	200dpi	0~4	0 : 200dpi, 1: 300dpi, 2: 400dpi, 3: 600dpi, 4: 100dpi Refer to Scan FF (Input Common) for the setting range.
790-226	Top & Bottom Edge Erase in Scan	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments

Chain-Link	Content	Default	Range	Meaning
790-227	Left & Light Edge Erase in Scan	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-228	Center Erase in Scan	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-229	Density / Brightness Adjust in Scan	Standard	0~6	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	Contrast Adjust in Scan	Standard	0~4	0 : Higher, 1: High, 2: Standard, 3: Low, 4: Lower
790-231	Fixed Original Size 1 in Scan	XE/DMO-E: 10 (A3SEF), DMO-W: 10 (A3SEF), XC: 89 (8.5x11LEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-232	Fixed Original Size 2 in Scan	XE/DMO-E: 12 (A4SEF), DMO-W: 12 (A4SEF), XC: 90 (8.5x11SEF)	1~255	Same as above
790-233	Fixed Original Size 3 in Scan	XE/DMO-E: 11 (A4LEF), DMO-W: 11 (A4LEF), XC: 118 (8.5x13SEF)	1~255	Same as above
790-234	Fixed Original Size 4 in Scan	XE/DMO-E: 14 (A5SEF), DMO-W: 14 (A5SEF), XC: 92 (8.5x14SEF)	1~255	Same as above
790-235	Fixed Original Size 5 in Scan	XE/DMO-E: 15 (A5LEF), DMO-W: 15 (A5LEF), XC: 132 (11x15SEF)	1~255	Same as above
790-236	Fixed Original Size 6 in Scan	XE/DMO-E: 66 (B4SEF), DMO-W: 66 (B4SEF), XC: 80 (11x17SEF)	1~255	Same as above
790-237	Fixed Original Size 7 in Scan	XE/DMO-E: 68 (B5SEF), DMO-W: 68 (B5SEF), XC: 112 (5.5x8.5SEF)	1~255	Same as above
790-238	Fixed Original Size 8 in Scan	XE/DMO-E: 67 (B5LEF), DMO-W: 67 (B5LEF), XC: 119 (7.25x10.5LEF)	1~255	Same as above
790-239	Fixed Original Size 9 in Scan	XE/DMO-E: 70 (B6SEF), DMO-W: 70 (B6SEF), XC: 120 (7.25x10.5SEF)	1~255	Same as above
790-240	Fixed Original Size 10 in Scan	XE/DMO-E: 80 (11x17SEF), DMO-W: 80 (11x17SEF), XC: 115 (8x10LEF)	1~255	Same as above
790-241	Fixed Original Size 11 in Scan	XE/DMO-E: 92 (8.5x14SEF), DMO-W: 92 (8.5x14SEF), XC: 109 (5x7SEF)	1~255	Same as above
790-250	Fixed Size 1 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.

Chain-Link	Content	Default	Range	Meaning
790-251	Fixed Size 1 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-252	Fixed Size 2 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-253	Fixed Size 2 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-254	Fixed Size 3 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-255	Fixed Size 3 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-256	Fixed Size 4 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-257	Fixed Size 4 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-258	Fixed Size 5 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-259	Fixed Size 5 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-260	Fixed Size 6 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-261	Fixed Size 6 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-262	Fixed Size 7 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-263	Fixed Size 7 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-264	Fixed Size 8 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-265	Fixed Size 8 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-266	Fixed Size 9 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-267	Fixed Size 9 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-268	Fixed Size 10 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-269	Fixed Size 10 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-270	Fixed Size 11 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-271	Fixed Size 11 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-272	Top Direction Define in Scan	Head to Top: 0	0~1	0 : Head to Top, 1: Head to Left
790-273	Fixed Reduce/Enlarge 1 in Scan	XE/DMO-E: 1001 (25%), DMO-W: 1001 (25%), XC: 1001 (25%)	25~1025	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%, 1025: 400.00%
790-274	Fixed Reduce/Enlarge 2 in Scan	XE/DMO-E: 1003 (50%), DMO-W: 1003 (50%), XC: 1003 (50%)	1025	Same as above
790-275	Fixed Reduce/Enlarge 3 in Scan	XE/DMO-E: 1006 (64.7%), DMO-W: 1006 (64.7%), XC: 1006 (64.7%)	1025	Same as above
790-276	Fixed Reduce/Enlarge 4 in Scan	XE/DMO-E: 1007 (70.7%), DMO-W: 1007 (70.7%), XC: 1007 (70.7%)	25~1025	Same as above
790-277	Fixed Reduce/Enlarge 5 in Scan	XE/DMO-E: 1008 (78.5%), DMO-W: 1008 (78.5%), XC: 1008 (78.5%)	25~1025	Same as above
790-278	Fixed Reduce/Enlarge 6 in Scan	XE/DMO-E: 1011 (94%), DMO-W: 1011 (94%), XC: 1011 (94%)	25~1025	Same as above
790-279	Fixed Reduce/Enlarge 7 in Scan	XE/DMO-E: 1012 (97.3%), DMO-W: 1012 (97.3%), XC: 1012 (129.4%)	25~1025	Same as above

Chain-Link	Content	Default	Range	Meaning
790-280	Output Size 1 in Scan	XE/DMO-E: 10 (A3SEF), DMO-W: 10 (A3SEF), XC: 89 (8.5x11LEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-281	Output Size 2 in Scan	XE/DMO-E: 12 (A4SEF), DMO-W: 12 (A4SEF), XC: 90 (8.5x11SEF)	1~255	Same as above
790-282	Output Size 3 in Scan	XE/DMO-E: 11 (A4LEF), DMO-W: 11 (A4LEF), XC: 118 (8.5x13SEF)	1~255	Same as above
790-283	Output Size 4 in Scan	XE/DMO-E: 14 (A5SEF), DMO-W: 14 (A5SEF), XC: 92 (8.5x14SEF)	1~255	Same as above
790-284	Output Size 5 in Scan	XE/DMO-E: 15 (A5LEF), DMO-W: 15 (A5LEF), XC: 132 (11x15SEF)	1~255	Same as above
790-285	Output Size 6 in Scan	XE/DMO-E: 66 (B4SEF), DMO-W: 66 (B4SEF), XC: 80 (11x17SEF)	1~255	Same as above
790-286	Output Size 7 in Scan	XE/DMO-E: 68 (B5SEF), DMO-W: 68 (B5SEF), XC: 112 (5.5x8.5SEF)	1~255	Same as above
790-287	Output Size 8 in Scan	XE/DMO-E: 67 (B5LEF), DMO-W: 67 (B5LEF), XC: 119 (7.25x10.5LEF)	1~255	Same as above
790-288	Default Background Suppression in Scan	Off	0~1	0: Off, 1: On
790-290	Preset Reduce/Enlarge 1 in Scan	XE/DMO-E: 2 (R/E Preset 2), DMO-W: 1 (R/E Preset 1), XC: 3 (R/E Preset 3)	1~12	1~12 : R/E Preset 1~12
790-291	Preset Reduce/Enlarge 2 in Scan	XE/DMO-E: 3 (R/E Preset 3), DMO-W: 3 (R/E Preset 3), XC: 4 (R/E Preset 4)	1~12	Same as above
790-292	Preset Reduce/Enlarge 3 in Scan	XE/DMO-E: 5 (R/E Preset 5), DMO-W: 7 (R/E Preset 7), XC: 5 (R/E Preset 5)	1~12	Same as above
790-300	Special Document Select Switch Enable	Do not display	0~1	0: Do not display, 1: Display
790-301	Top Edge Erase in Copy	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-302	Bottom Edge Erase in Copy	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-303	Left Edge Erase in Copy	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments

Chain-Link	Content	Default	Range	Meaning
790-304	Light Edge Erase in Copy	2 (mm)	0~50	0 (mm) ~ 50 (mm) in 1mm increments
790-306	Remove Bleed Through in Scan	Off	0~1	0: Off, 1: On
790-307	Sharpness Adjust in Scan	Standard	0~4	0: More Compression, 1: Compression, 2: Standard, 3: Image Quality, 4: More Image Quality
790-308	Transfer Protocol in Scan	FTP	0~2	0: FTP, 1: SMB, 2: SMB (UNC)
790-309	File Format in Scan	TIFF/JFIF Auto Select	0~6	0: TIFF/JFIF Auto Select, 1: TIFF (1 page per file), 2: TIFF (Multi-page), 3: PDF 4: XDW (Not applicable for XC/XE) 5: High compression PDF 6: High compression XDW (Not applicable for XC/XE)
790-310	Delivery Confirm in iFAX	0: Off	0~1	0: Off, 1: On
790-311	Sharpness Adjust in Scan	Standard	0~4	0 : Sharper, 1: Sharp, 2: Standard, 3: Soft, 4: Softer
790-312	Edge Erase in Scan	On	0~1	0 : On, 1: Off
790-317	Display Color Space in Scan	On	0~1	0 : On, 1: Off
790-322	Reverse Edge Erase in Copy	Same as Side1	0~1	0 : Same as Side1, 1: Opposite to Side1
790-350	Fixed Original Size 12 in Scan	XE/DMO-E: 118 (8.5x13SEF), DMO-W: 118 (8.5x13SEF), XC: 107 (4x6LEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-351	Fixed Original Size 13 in Scan	XE/DMO-E: 90 (8.5x11SEF), DMO-W: 90 (8.5x11SEF), XC: 135 (3.5x5LEF)	1~255	Same as above
790-352	Fixed Original Size 14 in Scan	XE/DMO-E: 89 (8.5x11LEF), DMO-W: 89 (8.5x11LEF), XC: 106 (3.5x5.5LEF)	1~255	Same as above
790-353	Fixed Original Size 15 in Scan	XE/DMO-E: 115 (8.5x10LEF), DMO-W: 115 (8.5x10LEF), XC: 11 (A4LEF)	1~255	Same as above
790-354	Fixed Original Size 16 in Scan	XE/DMO-E: 109 (5x7LEF), DMO-W: 109 (5x7LEF), XC: 12 (A4SEF)	1~255	Same as above
790-355	Fixed Original Size 17 in Scan	XE/DMO-E: 135 (3.5x5LEF), DMO-W: 135 (3.5x5LEF), XC: 10 (A3SEF)	1~255	Same as above
790-360	Fixed Size 12 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-361	Fixed Size 12 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-362	Fixed Size 13 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.

Chain-Link	Content	Default	Range	Meaning
790-363	Fixed Size 13 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-364	Fixed Size 14 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-365	Fixed Size 14 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-366	Fixed Size 15 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-367	Fixed Size 15 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-368	Fixed Size 16 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-369	Fixed Size 16 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-370	Fixed Size 17 Fast Scan	NULL	0~297	15~297mm. * Initial value is '0'.
790-371	Fixed Size 17 Slow Scan	NULL	0~432	15~432mm. * Initial value is '0'.
790-380	Fixed Reduce/Enlarge 8 in Scan	XE/DMO-E: 1012 (97.3%), DMO-W: 1012 (97.3%), XC: 1016 (129.4%)	25~1025	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%
790-381	Fixed Reduce/Enlarge 9 in Scan	XE/DMO-E: 1017 (141.4%), DMO-W: 1016 (129.4%), XC: 1018 (154.5%)	25~1025	Same as above
790-382	Fixed Reduce/Enlarge 10 in Scan	XE/DMO-E: 1022 (200%), DMO-W: 1017 (141.4%), XC: 1022 (200%)	25~1025	Same as above
790-383	Fixed Reduce/Enlarge 11 in Scan	XE/DMO-E: 1024 (282.8%), DMO-W: 1022 (200%), XC: 1022 (220%)	25~1025	Same as above
790-384	Fixed Reduce/Enlarge 12 in Scan	XE/DMO-E: 1025 (400%), DMO-W: 1025 (400%), XC: 1025 (400%)	25~1025	Same as above
790-390	Output Size 9 in Scan	XE/DMO-E: 70 (B6SEF), DMO-W: 70 (B6SEF), XC: 120 (7.25x10.5SEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-391	Output Size 10 in Scan	XE/DMO-E: 80 (11x17SEF), DMO-W: 80 (11x17SEF), XC: 115 (8x10LEF)	1~255	Same as above
790-392	Output Size 11 in Scan	XE/DMO-E: 92 (8.5x14SEF), DMO-W: 92 (8.5x14SEF), XC: 109 (5x7SEF)	1~255	Same as above

Chain-Link	Content	Default	Range	Meaning
790-393	Output Size 12 in Scan	XE/DMO-E: 118 (8.5x13SEF), DMO-W: 118 (8.5x13SEF), XC: 107 (4x6LEF)	1~255	Same as above
790-394	Output Size 13 in Scan	XE/DMO-E: 90 (8.5x11SEF), DMO-W: 90 (8.5x11SEF), XC: 135 (3.5x5LEF)	1~255	Same as above
790-395	Output Size 14 in Scan	XE/DMO-E: 89 (8.5x11LEF), DMO-W: 89 (8.5x11LEF), XC: 106 (3.5x5.5SEF)	1~255	Same as above
790-396	Output Size 15 in Scan	XE/DMO-E: 115 (8x10LEF), DMO-W: 115 (8x10LEF), XC: 11 (A4LEF)	1~255	Same as above
790-397	Output Size 16 in Scan	XE/DMO-E: 109 (5x7LEF), DMO-W: 109 (5x7LEF), XC: 11 (A4LEF)	1~255	Same as above
790-398	Output Size 17 in Scan	XE/DMO-E: 135 (3.5x5LEF), DMO-W: 135 (3.5x5LEF), XC: 10 (A3SEF)	1~255	Same as above
790-401	1-Menu Display Customize Service Set	XE/DMO-E: 1 (Copy), DMO-W: 1 (Copy), XC: 1 (Copy)	0~255	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
790-402	2-Menu Display Customize Service Set	XE/DMO-E: 3 (Scan to E-mail), DMO-W: 3 (Scan to E-mail), XC: 3 (Scan to E-mail)	0~255	Same as above
790-403	3-Menu Display Customize Service Set	XE/DMO-E: 2 (FAX/iFAX), DMO-W: 2 (FAX/iFAX), XC: 2 (FAX/iFAX)	0~255	Same as above
790-404	4-Menu Display Customize Service Set	XE/DMO-E: 5 (Scan to Server), DMO-W: 5 (Scan to Server), XC: 5 (Scan to Server)	0~255	Same as above
790-405	5-Menu Display Customize Service Set	XE/DMO-E: 4 (Scan to MailBox), DMO-W: 4 (Scan to MailBox), XC: 4 (Scan to MailBox)	0~255	Same as above
790-406	6-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-407	7-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-408	8-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-409	9-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-410	10-Menu Display Customize Service Set	XE/DMO-E: 6 (Scan to PC), DMO-W: 6 (Scan to PC), XC: 6 (Scan to PC)	0~255	Same as above
790-411	11-Menu Display Customize Service Set	XE/DMO-E: 7 (Box), DMO-W: 7 (Box), XC: 7 (Box)	0~255	Same as above
790-412	12-Menu Display Customize Service Set	XE/DMO-E: 105 (Create), DMO-W: 105 (Create), XC: 105 (Create)	0~255	Same as above

Chain-Link	Content	Default	Range	Meaning
790-413	13-Menu Display Customize Service Set	XE/DMO-E: 10 (Job Memory), DMO-W: 10 (Job Memory), XC: 10 (Job Memory)	0~255	Same as above
790-414	14-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-415	15-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-416	16-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above
790-417	1-Menu Display Utility Service Set	0: Not set	0~255	0: Not set, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 160: Printer mode, 107: Help
790-418	2-Menu Display Utility Service Set	0: Not set	0~255	Same as above
790-419	3-Menu Display Utility Service Set	0: Not set	0~255	Same as above
790-420	4-Menu Display Utility Service Set	0: Not set	0~255	Same as above
790-421	Copy Custom Func No	1: Customized L1	0~2	0: No customization, 1: Customized L1, 2: Customized L2
790-422	Copy Custom Func L1_1	26: Margin Shift	0~255	Refer to the UI Dialogue Specifications for the setting range as the contents of this column varies according to the launch. 0: Not set, 1: Color mode, 2: Image Quality Presets, 3: Original Type, 4: Lighten/Darken / Contrast (Color), 5: Lighten/Darken, 6: Sharpness/Color Saturation (Color) 7: Sharpness/Color Saturation (BW), 8: Auto Exposure, 9: Color Balance, 10: Color Shift, 21: 2 Sided, 22: Bound Originals, 23: 2 Sided Book Copy, 24: Original Size, 25: Border Erase, 26: Margin Shift, 27: Image Rotation, 28: Mirror Image/Negative Image, 29: Original Orientation, 30: Mixed Size Originals, 41: Copy Output, 42: Booklet Creation, 43: Covers, 44: Transparency Separators, 45: Multiple-Up, 46: Poster, 47: Repeat Image, 48: Chapter Division/ Inserter/Tab Sheet, 49: Annotation, 50: Set Numbering, 51: Output Side, 52: Folding, 61: Build Job, 62: Image Overlay, 63: Delete Outside/Delete Inside, 64: Double Copy, 101: 2 Sided (1->2 Sided (H to H)), 102: 2 Sided (2->2 Sided (H to H)), 103: Mixed Size Originals (Direct selection of parameter), 104: Margin Shift (Center), 105: Copy Output (Collate), 106: Copy Output (Staple (One Staple, Top Left), 107: Copy Output (Staple (Two Staples, Left), 108: Multiple-Up (2Up (Right->Left)), 109: Multiple-Up (2Up (Right->Left/Top->Bottom)), 110: Output (Reverse), 111: Folding (Z-fold), 112: Sample Set, 113: Large Volume Document, 114: Double Copy (Direct selection of parameter), 115: Slight Reduction, 116: Auto Exposure (Direct selection of parameter), 117: Original Orientation (Head to Left) (Direct selection of parameter), 118: Folding (Direct selection of parameter), 119: Build Job (Direct selection of parameter), 120: Image Overlay (Direct selection of parameter)
790-423	Copy Custom Func L1_2	25: Border Erase	0~255	Same as above
790-424	Copy Custom Func L1_3	5: Ligthen/Darken	0~255	Same as above
790-425	Copy Custom Func L2_1	26: Margin Shift	0~255	Same as above
790-426	Copy Custom Func L2_2	3: Original Type	0~255	Same as above
790-427	Copy Custom Func L2_3	5: Ligthen/Darken	0~255	Same as above
790-428	Copy Custom Func L2_4	0: Not set	0~255	Same as above
790-429	Copy Custom Func L2_5	0: Not set	0~255	Same as above
790-430	Copy Custom Func L2_6	0: Not set	0~255	Same as above

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-431	Copy Custom Func L2_7	0: Not set	0~255	Same as above
790-432	Scan Custom Func No	0: No customization	0~1	0: No customization, 1: Customized L1
790-433	Scan Custom Func 1	0: Not set	0~255	0: Not set, 1: 2 Sided, 2: Scan Resolution, 3: Lighten/Darken, 4: Reduce/Enlarge
790-434	Scan Custom Func 2	0: Not set	0~255	0: Not set, 1: 2 Sided, 2: Scan Resolution, 3: Lighten/Darken, 4: Reduce/Enlarge
790-435	Current Display Language	1: Japanese	1~32	1: Japanese, 2: English, 3: French, 4: German, 5: Italian, 6: Spanish, 7: Portuguese, 8: Russian, 9: Simplified Chinese, 10: Korean, 11: Thai, 12: Vietnamese, 13: Traditional Chinese, 14: Dutch, 15: Danish, 16: Swedish, 17: Finnish, 18: Norwegian, 19: Brazilian Portuguese, 20: Bulgarian, 21: Polish, 22: Hungarian, 23: Rumanian, 24: Czech, 25: Greek, 26: Turkish, 27: Arabic, 28: Persian, 29: Hebrew
790-436	Service Customize Key1	1: Copy	0~255	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
790-437	Service Customize Key2	0: Not set	0~255	Same as above
790-438	Service Customize Key3	0: Not set	0~255	Same as above
790-439	Keyboard Type Switch	0: Qwerty	0~1	0: Qwerty, 1: ABC
790-440	Keyboard Limit	1: Display all other than ASCII	0~1	0: Display only ASCII, 1: Display all other than ASCII
790-441	1-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-442	2-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-443	3-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-444	4-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-445	5-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-446	6-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-447	7-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-448	8-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-449	9-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-450	10-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-451	11-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-452	12-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-453	13-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-454	14-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-455	15-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-456	16-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-457	17-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-458	18-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-459	19-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-460	20-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-461	21-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-462	22-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-463	23-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-464	24-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-465	25-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-466	26-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-467	27-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-468	28-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-469	29-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-470	30-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-471	31-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-472	32-UI Display Language Limit	1 : Display	0~1	0 : Do not display 1 : Display
790-473	Job List Display Filter	0: Display all	0~3	0: Display all, 1: Transfer, 2: Print, 3: Communications
790-474	Cover Tray Preset 1	3: Tray 3	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: HCF1, 7: HCF2
790-475	Cover Tray Preset 2	4: Tray 4	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: HCF1, 7: HCF2
790-476	Back Cover Tray Preset 1	3: Tray 3	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: HCF1, 7: HCF2
790-477	Back Cover Tray Preset 2	4: Tray 4	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: HCF1, 7: HCF2
790-478	Panel UI Key Repeat Set	1: On	0~1	0: Off, 1: On
790-488	17-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	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
790-489	18-Menu Display Customize Service Set	XE/DMO-E: 0 (No feature), DMO-W: 0 (No feature), XC: 0 (No feature)	0~255	Same as above.
790-490	5-Menu Display Utility Service Set	0: Not set	0~255	Same as Menu Screen Utility Setting 4.
790-491	6-Menu Display Utility Service Set	0: Not set	0~255	Same as Menu Screen Utility Setting 4.
790-492	7-Menu Display Utility Service Set	0: Not set	0~255	Same as Menu Screen Utility Setting 4.
790-493	8-Menu Display Utility Service Set	0: Not set	0~255	Same as Menu Screen Utility Setting 4.
790-494	9-Menu Display Utility Service Set	0: Not set	0~255	Same as Menu Screen Utility Setting 4.
790-550	Fixed Reduce/Enlarge 8 in FAX	XE/DMO-E: 1016 (129.4%), DMO-W: 1015 (127.3%), XC: 1017 (141.4%)	25~1025	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%, 1025: 400.00%
790-551	Fixed Reduce/Enlarge 9 in FAX	XE/DMO-E: 1017 (141.4%), DMO-W: 1016 (129.4%), XC: 1018 (154.5%)	25~1025	Same as above
790-552	Fixed Reduce/Enlarge 10 in FAX	XE/DMO-E: 1022 (200%), DMO-W: 1017 (141.4%), XC: 1022 (200%)	25~1025	Same as above
790-553	Fixed Reduce/Enlarge 11 in FAX	XE/DMO-E: 1024 (282.8%), DMO-W: 1022 (200%), XC: 1022 (220%)	25~1025	Same as above
790-554	Fixed Reduce/Enlarge 12 in FAX	XE/DMO-E: 1025 (400%), DMO-W: 1025 (400%), XC: 1025 (400%)	25~1025	Same as above

Chain-Link	Content	Default	Range	Meaning
790-560	Fixed Original Size 12 in FAX Scan	XE/DMO-E: 118 (8.5x13SEF), DMO-W: 118 (8.5x13SEF), XC: 107 (4x6LEF)	1~255	1: Not defined, 10: A3SEF, 11: A4LEF, 12:A4SEF, 13: A5LEF, 14: A5SEF, 15: A6LEF, 16: A6SEF, 50: C4 Envelope SEF, 51: C5 Envelope SEF, 55: DL Envelope LEF, 66: B4SEF, 67: B5LEF, 68: B5SEF, 69: B6LEF, 70: B6SEF, 80: 11x17SEF, 87: PostcardLEF, 88: PostcardSEF, 89: 8.5x11LEF, 90: 8.5x11SEF, 92: 8.5x14SEF, 94: 12x18SEF, 98: 12x19SEF, 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: 5.5x8.5LEF, 112: 5.5x8.5SEF, 113: Postcard (6x9) LEF, 114: Postcard (6x9) SEF, 115: 8x10LEF, 116: 8x10SEF, 118: 8.5x13SEF, 119: 7.25x10.5LEF, 120: 7.25x10.5SEF, 123: Youkei 0 LEF, 124: Choukei 3 SEF, 126: Choukei 4 SEF, 132: 11x15SEF, 135: Photo L LEF, 136: Photo L SEF, 137: Commercial 10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3SEF, 143: Special A4LEF, 144: Special A4SEF, 145: A4 Cover SEF, 146: A4 Cover LEF, 147: 13x19SEF, 148: 13x18SEF, 149: 12.6x19.2SEF, 150: Letter Cover (9x11) SEF, 151: Letter Cover (9x11) LEF, 152: Monarch Envelope LEF, 154: Prepaid Postcard LEF, 155: Prepaid Postcard SEF, 156: 16K LEF (GCO), 157: 16K SEF (GCO), 159: 8K SEF (GCO)
790-561	Fixed Original Size 13 in FAX Scan	XE/DMO-E: 90 (8.5x11SEF), DMO-W: 90 (8.5x11SEF), XC: 135 (3.5x5LEF)	1~255	Same as above
790-562	Fixed Original Size 14 in FAX Scan	XE/DMO-E: 89 (8.5x11LEF), DMO-W: 89 (8.5x11LEF), XC: 106 (3.5x5.5LEF)	1~255	Same as above
790-563	Fixed Original Size 15 in FAX Scan	XE/DMO-E: 115 (8.5x10LEF), DMO-W: 115 (8.5x10LEF), XC: 11 (A4LEF)	1~255	Same as above
790-564	Fixed Original Size 16 in FAX Scan	XE/DMO-E: 109 (5x7LEF), DMO-W: 109 (5x7LEF), XC: 12 (A4SEF)	1~255	Same as above
790-565	Fixed Original Size 17 in FAX Scan	XE/DMO-E: 135 (3.5x5LEF), DMO-W: 135 (3.5x5LEF), XC: 10 (A3SEF)	1~255	Same as above
790-570	PTT Customization	0: Do not allow	0~2	0: Do not allow, 1: Allow for EU country settings, 2: Allow for NA country settings
790-621	Scan Run Frame	0: Do not display 7sec "Scanning completed" and "Transferring data" messages	0~2	0: Do not display 7sec "Scanning completed" and "Transferring data" messages 1: Display 7sec "Scanning completed" but do not display "Transferring data" messages 2: Display both 7sec "Scanning completed" and "Transferring data" messages
790-622	Copy Staple Position Preset_1	7: Two Staples, Top	1~255	1: One Staple, Top Left, 2: One Staple, Top Center, 3: One Staple, Top Right, 4: One Staple, Left Center, 5: One Staple, Right Center, 6: Two Staples, Left, 7: Two Staples, Top, 8: Two Staples, Right
790-623	Copy Staple Position Preset_2	3: One Staple, Top Right	1~255	1: One Staple, Top Left, 2: One Staple, Top Center, 3: One Staple, Top Right, 4: One Staple, Left Center, 5: One Staple, Right Center, 6: Two Staples, Left, 7: Two Staples, Top, 8: Two Staples, Right
790-624	Copy Punch Position Preset_1	3: Two Holes, Right	1~255	1: Two Holes, Left, 2: Two Holes, Top, 3: Two Holes, Right, 4: Two Holes, Left, 5: Three Holes, Top, 6: Three Holes, Right, 7: Four Holes, Left, 8: Four Holes, Top, 9: Four Holes, Right
790-625	Copy Punch Position Preset_2	For 2/3 Hole Option, ->4: Three Holes, Left For 2/4 Hole Option, ->7: Four Holes, Left	1~255	1: Two Holes, Left, 2: Two Holes, Top, 3: Two Holes, Right, 4: Two Holes, Left, 5: Three Holes, Top, 6: Three Holes, Right, 7: Four Holes, Left, 8: Four Holes, Top, 9: Four Holes, Right

Table 8 UI

Chain-Link	Content	Default	Range	Meaning
790-630	Virtual Address Book	Address Book	0~6	0: 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 (* Settings 1 and 2 are not allowed)
790-631	Address Book NVM Data Transfer To New HDD	Do not transfer	0~1	0: Do not transfer 1: Transfer

Chain 790-xxx Copy Service

Table 9 Copy Service

Chain-Link	Content	Default	Range	Meaning
790-600	Poster Overlap Width	10mm	1~25	10mm~25mm
790-605	Sample Copy Enable	0: Disable	0~1	0: Disable, 1: Enable
790-606	Annotation Page No-Pattern	N	1~6	1: N, 2: -N-, 3: Page N, 4: N/M, 5: -N/M-, 6: Page N/M
790-607	Annotation Page No-Position	Bottom Center	1~6	1: Top Left, 2: Top Right, 3: Top Center, 4: Bottom Left, 5: Bottom Right, 6: Bottom Center
790-609	Annotation Page No-Position_Side2	Opposite to Side 1	0~1	0: Opposite to Side 1, 1: Same as Side 1
790-611	Annotation Date-Position	Bottom Right	1~6	1: Top Left, 2: Top Right, 3: Top Center, 4: Bottom Left, 5: Bottom Right, 6: Bottom Center
790-612	Annotation Date-Font Size	2: 10	1~3	1: 6, 2: 10, 3: 24
790-613	Annotation Date-Position_Side2	Opposite to Side 1	0~1	0: Opposite to Side 1, 1: Same as Side 1
790-614	Annotation Stamp-Position	Top Right	1~9	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
790-615	Annotation Stamp-Font Size	48	0~2	0: 32, 1: 48, 2: 64
790-617	Annotation Stamp-Density	0	0~2	0: 0% 1: [25%] 2: [50%]
790-618	Annotation Stamp-Position_side2	Same as Side 1	0~1	0: Opposite to Side 1, 1: Same as Side 1
790-619	Annotation Stamp-dirCheck	Set for each sheet	0~1	0: Set for first sheet, 1: Set for each sheet
810-129	Store Copy Max	999	1~999	1-999: This product, 1-2000: Other machine
810-130	Build Job Display Enable	0 : Do not display: 1	0~1	0 : Do not display, 1: Display
810-132	ATS Only APS	APS only	0~2	TRUE (1): APS only, FALSE (0): Always (Even for manual tray selection)
810-136	Duplex APS Chapter Division Enable	Disable	0~1	0: Disable, 1: Enable
810-156	Analog Watermark	3: Text	1~3	1: Embossed, 2: Outline, 3: Text
810-157	Analog Watermark Font Size	48	48~80	48: 48, 64: 64, 80: 80
810-158	Analog Watermark Pattern	Fan	1~8	1: Wave, 2: Circle, 3: Stripe, 4: Chain, 5: Beam, 6: Rhombic, 7: Sunflower, 8: Fan
810-159	Analog Watermark Color	Black	9~12	9: Black, 11: Magenta, 12 Cyan
810-160	Analog Watermark Darkness	Normal	7~9	9: Light, 8: Normal, 7: Dark
810-161	Analog Watermark Contrast	7	0~13	Contrast 1: 11, Contrast 2: 10, Contrast 3: 9, Contrast 4, 8, Contrast 5: 7, Contrast 6: 6, Contrast 7: 5, Contrast 8: 4, Contrast 9: 3
810-162	Analog Watermark Data Format	FX: 1 MN: 2	1~4	1: 20yy/mm/dd (hh:mm) 2: mm/dd/20yy (hh:mm) 3: dd/mm/20yy (hh:mm) 4: 20yy/mm/dd (hhH mmmin) (hhH mmmin)
810-163	Force Analog Watermark Copy	Do not print	0~1	0: Do not print, 1: Print
810-164	Force Analog Watermark Printer	Do not print	0~1	0: Do not print, 1: Print
810-165	Force Analog Watermark PBBox	Do not print	0~1	0: Do not print, 1: Print

Table 9 Copy Service

Chain-Link	Content	Default	Range	Meaning
810-166	Force Analog Watermark Media	Do not print	0~1	0: Do not print, 1: Print

Chain 800-xxx Print Service

Table 10 Print Service

Chain-Link	Content	Default	Range	Meaning
800-001	APS Job Recovery Method	6: Displays add paper.		6: Displays add paper (SPS Off), 5: Uses a large paper size (no adjustment), 2: Uses a nearest paper size (with adjustment), 8: Feed from Bypass tray
800-006	Expand Print Mode	1: Standard	1~2	1: Standard, 2: Expand
800-016	ID Print Stamp Position or Enable	5: Disable	1~5	1: Top Left, 2: Top Right, 3: Bottom Left, 4: Bottom Right, 5: Disable
800-017	Device Print Permission	1: True: Allow device print	0~1	1: True: Allow device print 0: False: Prohibit device print
800-018	Force Extend Print	1: Do not force extend print	1~2	1: Do not force extend print, 2: Force extend print (For Kutani, installed from P/L)
806-996	PS Font Mismatch Default	0: Use a substitute font	0~1	[0: Use a substitute font, 1: End the job]
806-997	PS ATCX Default	0: On	0~1	[0: On, 1: Off]
806-999	PS Deferred Media Selection Enable	1: Enable	0~1	[0: Disable, 1: Enable]

Chain 820-xxx FAX Service

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
820-003	FAX Full Dial Enable	0: Do not prohibit	0~1	0: Do not prohibit, 1: Prohibit
820-006	Output Tray of Confidential Box Print	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-010	Tray Selection for Ch0	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-011	Tray Selection for Ch1	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-012	Tray Selection for Ch2	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-013	Tray Selection for Ch3	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-014	Tray Selection for Ch4	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-015	Tray Selection for Ch5	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-016	2 Sided Print Setting for Print	0: 1 Sided	0~2	0: 1 Sided, 1: 2 Sided
820-019	Forced Polling	0: Off	0~1	0: Off, 1: Forced Polling
820-024	Broadcast / Multi-Poll Enable	0: Allow	0~1	0: Allow, 1: Prohibit 1=Prohibit

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
820-025		1: 90 angle rotation setting On	0~1	0: 90 angle rotation setting Off, 1: 90 angle rotation setting On
820-026	FAX Scan Illegal Operation	1: Enable stored documents (Default before PL2 was 0)	0~1	0: Discard stored documents, 1: Enable stored documents
820-027	Scan Resolution for G3 Auto or F4800bps	2=Fine (600/400) inch series, others in mm series	0~2	0=Select mm series resolution 1=Select Inch series resolution 2=Fine (600/400) inch series, others in mm series
820-028	Scan Reduce for Letter/Legal to A4	0: 100%	0~1	0: 100%, 1: Reduce to A4 1=Reduce to A4
820-030	Status of FAX Card	-		0=Preparing for use. Checking whether the machine can switch to Ready mode. 1=Can be used 255=Cannot be used
820-031	Status of FAX Ch0	-	0~255	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	Status of FAX Ch1	-	0~255	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	Status of FAX Ch2	-	0~255	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	Status of FAX Ch3	-	0~255	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	Status of FAX Ch4	-	0~255	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	Status of FAX Ch5	-	0~255	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	Max. No. of Pages Stored	999 pages	1~999	[1~999 pages]
820-038	FAX Auto Report Tray Selection	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-039	FAX Auto Report Tray Selection	0: Center Tray	0~3	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray 2 *Options cannot be selected if they are not installed
820-040	FAX Info Attribute Priority[0] in Mailbox	0: F Code	0~4	0: F Code, 1: Caller.ID, 2: Remote ID, 3: Remote Name, 4: Dial-in No.
820-041	FAX Info Attribute Priority[1] in Mailbox	1: Caller ID (FX default) 2: Remote ID (M/N, AP default)	0~4	0: F Code, 1: Caller.ID, 2: Remote ID, 3: Remote Name, 4: Dial-in No.
820-042	FAX Info Attribute Priority[2] in Mailbox	2: Remote ID (FX default) 3: Remote Name (M/N, AP default)	0~4	0: F Code, 1: Caller.ID, 2: Remote ID, 3: Remote Name, 4: Dial-in No.
820-043	FAX Info Attribute Priority[3] in Mailbox	3: Remote Name (FX default) 1: Caller ID (M/N, AP default)	0~4	0: F Code, 1: Caller.ID, 2: Remote ID, 3: Remote Name, 4: Dial-in No.

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
820-044	FAX Info Attribute Priority[4] in Mailbox	4: Dial-in No.	0~4	0: F Code, 1: Caller.ID, 2: Remote ID, 3: Remote Name, 4: Dial-in No.
820-045	Fax Scan Org Erase Top and Bottom	0mm	0~20	0~20. Unit: mm
820-046	Fax Scan Org Erase Right and Left	0mm	0~20	0~20. Unit: mm
820-047	Fax Manual Send Display	1: Display	0~1	[0: Do not display, 1: Display]
820-048	Send Header Log for iFAX Off Ramp	1: Attach	0~1	0: Do not attach, 1: Attach
820-052	Fax Immediate Memory Threshold TX	No HDD=20% HDD=0% (Immediate Send Off)	0~99	0~99% 1% increments
820-053	Fax Immediate Memory Threshold Scan	No HDD=5% HDD=0%	0~100	0~100% 1% increments
820-054	Fax Immediate Memory Threshold RX	No HDD=20% HDD=0% (Immediate Receive Off)	0~99	0~99% 1% increments
820-060	Fax Total Send Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-061	Fax Total Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-062	Fax G3 Normal Send Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-063	Fax G3 Error Send Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-064	Fax G3 Normal Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-065	Fax G3 Error Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-066	Fax G4 Normal Send Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-067	Fax G4 Error Send Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-068	Fax G4 Normal Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-069	Fax G4 Error Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-070	Fax Total Send Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-071	Fax Total Receive Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-072	Fax G3 Normal Send Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-073	Fax G3 Error Send Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-074	Fax G3 Normal Receive Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-075	Fax G3 Error Receive Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-076	Fax G4 Normal Send Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-077	Fax G4 Error Send Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-078	Fax G4 Normal Receive Counter Channel 0	0	0~0xffffffff	0~0xffffffff
820-079	Fax G4 Error Receive Counter Channel 1	0	0~0xffffffff	0~0xffffffff
820-080	Fax Total Send Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-081	Fax Total Receive Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-082	Fax G3 Normal Send Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-083	Fax G3 Error Send Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-084	Fax G3 Normal Receive Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-085	Fax G3 Error Receive Counter Channel 2	0	0~0xffffffff	0~0xffffffff

Chain-Link	Content	Default	Range	Meaning
820-086	Fax G4 Normal Send Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-087	Fax G4 Error Send Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-088	Fax G4 Normal Receive Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-089	Fax G4 Error Receive Counter Channel 2	0	0~0xffffffff	0~0xffffffff
820-090	Fax Total Send Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-091	Fax Total Receive Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-092	Fax G3 Normal Send Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-093	Fax G3 Error Send Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-094	Fax G3 Normal Receive Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-095	Fax G3 Error Receive Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-096	Fax G4 Normal Send Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-097	Fax G4 Error Send Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-098	Fax G4 Normal Receive Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-099	Fax G4 Error Receive Counter Channel 3	0	0~0xffffffff	0~0xffffffff
820-100	Fax Total Send Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-101	Fax Total Receive Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-102	Fax G3 Normal Send Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-103	Fax G3 Error Send Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-104	Fax G3 Normal Receive Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-105	Fax G3 Error Receive Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-106	Fax G4 Normal Send Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-107	Fax G4 Error Send Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-108	Fax G4 Normal Receive Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-109	Fax G4 Error Receive Counter Channel 4	0	0~0xffffffff	0~0xffffffff
820-110	Fax Total Send Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-111	Fax Total Receive Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-112	Fax G3 Normal Send Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-113	Fax G3 Error Send Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-114	Fax G3 Normal Receive Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-115	Fax G3 Error Receive Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-116	Fax G4 Normal Send Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-117	Fax G4 Error Send Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-118	Fax G4 Normal Receive Counter Channel 5	0	0~0xffffffff	0~0xffffffff
820-119	Fax G4 Error Receive Counter Channel 5	0	0~0xffffffff	0~0xffffffff

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
820-120	Fax RX Pix Data Threshold	RAM Disk minimum value: 20 (2.0Mbytes) Other than the above: (No limit)	0~255	0~255, 0=No limit 0.1Mbyte increments
820-121	Fax Recover Control	0	0~255	0: Recover all jobs in Fax Recovery 1: Recover all other than Direct Fax jobs in Fax Recovery 255: Do not perform Fax Recovery
823-001	Receive Mode Setting	0: Auto Receive	0~1	0: Auto Receive (Auto Call Response On) 1: Manual Receive (Auto Call Response Off)
823-002	Direct Mail Guard	0: Off	0~1	0: Off, 1: On 1=On
823-006	G4 Receive Header	0: Do not attach	0~1	0: Do not attach, 1: Attach
823-007	Send Header Log	1: Attach	0~1	0: Do not attach, 1: Attach
823-011	G4 Protocol Packet Size	2048bytes	0x07~0x0b	Send packet size 0x07: 128 0x08: 256 0x09: 512 0x0a: 1024 0x0b: 2048
823-012	Mailbox Enable by FAX Service	0	0~1	0: Disable, 1: Enable
823-013	Mailbox Enable by Receiving Line	0	0~1	0: Disable, 1: Enable
823-014	Mailbox Priority by Telephone Number	0	0~1	0=Dial-in no. at highest priority 1=Caller ID at highest priority
823-015	Line Monitor Setting	On	0~1	0=Off 1=On
823-016	Redial Attempts	5 times (5)	0~9	0~9 (0: Do not redial) 1 time increments
823-017	Redial Interval	1min (1)	0~15	0min (0) ~ 15min (0x0F) 1min increments
823-018	FAX Communication Interval	8sec (8)	3~255	3sec (3) ~ 255sec (0xFF) 1sec increments
823-019	FAX Printing 2 Up Enable	0: 2 Up Off	0~1	0: 2 Up Off, 1: 2 Up On 1=2 Up On
823-020	FAX Printing Page Segmentation Threshold	16mm(0x10)	0x00~0x7F	0mm (0) ~ 127mm (0x7F) 1mm increments
823-021	FAX Print Auto Reduce Mode Enable	1: Auto Reduce	1	0: Print at 100%, 1: Auto Reduce
823-022	FAX Batch Send Enable	1: On	1	0: Off, 1: On
823-023	FAX Local ID Send Enable	1: On	1	0: Off, 1: On 1: On
823-024	ISDN Tel No. Send Enable for Ch0	0: Do not send	1	0: Do not send, 1: Send
823-025	ISDN Tel No. Send Enable for Ch1	0: Do not send	1	0: Do not send, 1: Send
823-026	ISDN Tel No. Send Enable for Ch2	0: Do not send	1	0: Do not send, 1: Send
823-027	ISDN Tel No. Send Enable for Ch3	0: Do not send	1	0: Do not send, 1: Send
823-028	ISDN Tel No. Send Enable for Ch4	0: Do not send	1	0: Do not send, 1: Send
823-029	ISDN Tel No. Send Enable for Ch5	0: Do not send	1	0: Do not send, 1: Send
823-030	Dial Type for Ch0	0	0~2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-031	Dial Type for Ch1	0	2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-032	Dial Type for Ch2	0	2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-033	Dial Type for Ch3	0	2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-034	Dial Type for Ch4	0	2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-035	Dial Type for Ch5	0	2	0 = PB (DTMF) 1 = DP (10PPS) 2 = DP (20PPS)
823-036	Line Type for Ch0	1	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)
823-037	Line Type for Ch1	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)
823-038	Line Type for Ch2	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)
823-039	Line Type for Ch3	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)
823-040	Line Type for Ch4	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
823-041	Line Type for Ch5	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)
823-042	FAX Service Setting for Ch0	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-043	FAX Service Setting for Ch1	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-044	FAX Service Setting for Ch2	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-045	FAX Service Setting for Ch3	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-046	FAX Service Setting for Ch4	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-047	FAX Service Setting for Ch5	0=Normal line		Assign the service in bits and display the service (for which the contract is made) in that disjunction. MSB LSB xxxx xxx1 = Caller ID Notification Service Line xxxx xxx1 = Modem Dial-In Service Line
823-049	ISDN Transmission Capability Setting	0=3.1K Audio	0~1	0=3.1K Audio, 1=Speech
823-050	Ring Detect Frequency	0 times (0)	0~9	0~9 (times)
823-051	Declaration of Received Paper Size	0: Tray Selection	0~1	0: Tray Selection, 1: User Selection
823-052	Paper Size for User Declare in Fax Protocol	All paper sizes		1st byte bit1=A3SEF bit2=A4SEF bit5=B4SEF 2nd byte bit0=LetterSEF 3rd byte bit1=A4SEF bit3=A5LEF bit6=B5LEF bit=0: No paper bit=1: Paper detected
825-001	1300Hz Receive ON/OFF	1=ON (Receive)	0~1	0=OFF (Do not receive), 1=ON (Receive)
825-002	Boot Registration into Transmission Log	0		0: Do not log, 1: Log
825-017	Disconnection Detection for CH0	1	0~1	0: Do not detect disconnection, 1: Detect disconnection 1: Detect disconnection
825-018	Disconnect Detection for Ch1	1	0~1	0: Do not detect disconnection, 1: Detect disconnection
825-019	Disconnect Detection for Ch2	1	0~1	0: Do not detect disconnection, 1: Detect disconnection
825-020	Disconnect Detection for Ch3	1	0~1	0: Do not detect disconnection, 1: Detect disconnection
825-021	Disconnect Detection for Ch4	1	0~1	0: Do not detect disconnection, 1: Detect disconnection
825-022	Disconnect Detection for Ch5	1	0~1	0: Do not detect disconnection, 1: Detect disconnection
825-024	G4 to G3 Fallback Redial Enable/Disable	0		0 = Fallback Redial Off, 1= Fallback Redial On
825-025	ZZF: Continuation Judge When Receiving RTN	Continue (0)		0: Determine the fallback from the TCF check result and continue sending 1: Stop transmission (The document becomes eligible for resend)
825-033	Time of Tone Detection before Dial (PBX)	4		0~255 (sec)
825-046	PB Sending Level for Ch0	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments
825-047	PB Sending Level for Ch1	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments
825-048	PB Sending Level for Ch2	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments
825-049	PB Sending Level for Ch3	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments
825-050	PB Sending Level for Ch4	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-051	PB Sending Level for Ch5	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments
825-052	PB Sending Level (High-Low (dB))for Ch0	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-053	PB Sending Level (High-Low (dB))for Ch1	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-054	PB Sending Level (High-Low (dB))for Ch2	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-055	PB Sending Level (High-Low (dB))for Ch3	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-056	PB Sending Level (High-Low (dB))for Ch4	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-057	PB Sending Level (High-Low (dB))for Ch5	0		High pass - Low pass (dB) 0: 2.0 1: 2.5 2: 3.0 3: 3.5 4: 4.0 5: 4.5 6: 5.0 7: 5.5 8: -2.0 9: -1.5 10: -1.0 11: -0.5 12: 0 13: 0.5 14: 1.0 15: 1.5
825-058	Busy Tone Detection before Dial for Ch0	0	0~1	0: Do not detect, 1: Detect 1: Detect
825-059	Busy Tone Detection before Dial for Ch1	0	0~1	0: Do not detect, 1: Detect
825-060	Busy Tone Detection before Dial for Ch2	0	0~1	0: Do not detect, 1: Detect
825-061	Busy Tone Detection before Dial for Ch3	0	0~1	0: Do not detect, 1: Detect
825-062	Busy Tone Detection before Dial for Ch4	0	0~1	0: Do not detect, 1: Detect
825-063	Busy Tone Detection before Dial for Ch5	0	0~1	0: Do not detect, 1: Detect
825-064	Dial Tone Detection before Dial for Ch0	1	0~1	0: Do not detect, 1: Detect 1: Detect
825-065	Dial Tone Detection before Dial for Ch1	1	0~1	0: Do not detect, 1: Detect
825-066	Dial Tone Detection before Dial for Ch2	1	0~1	0: Do not detect, 1: Detect
825-067	Dial Tone Detection before Dial for Ch3	1	0~1	0: Do not detect, 1: Detect
825-068	Dial Tone Detection before Dial for Ch4	1	0~1	0: Do not detect, 1: Detect
825-069	Dial Tone Detection before Dial for Ch5	1	0~1	0: Do not detect, 1: Detect
825-070	Dial Tone Detection before Dial for PBX	0	0~1	0: Do not detect, 1: Detect
825-071	Time of Tone Detection before Dial for Ch0	4	0~255	0~255 (sec)
825-072	Time of Tone Detection before Dial for Ch1	10	0~255	0~255 (sec)
825-073	Time of Tone Detection before Dial for Ch2	10	0~255	0~255 (sec)
825-074	Time of Tone Detection before Dial for Ch3	10	0~255	0~255 (sec)
825-075	Time of Tone Detection before Dial for Ch4	10	0~255	0~255 (sec)
825-076	Time of Tone Detection before Dial for Ch5	10	0~255	0~255 (sec)
825-077	Dialing Restriction for Ch0	0		0: Allow 1: Restrict
825-078	Dialing Restriction for Ch1	0		0: Allow 1: Restrict
825-079	Dialing Restriction for Ch2	0		0: Allow 1: Restrict
825-080	Dialing Restriction for Ch3	0		0: Allow 1: Restrict
825-081	Dialing Restriction for Ch4	0		0: Allow 1: Restrict
825-082	Dialing Restriction for Ch5	0		0: Allow 1: Restrict
825-103	RX Gain in G3 Transmission Mode	6 (-6dB)	0~15	0~15 (0~-15dB)
825-104	TX Gain in ISDN G3 Transmission Mode	0	0~15	0~15 (0~-15dB)

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-127	Analogue Sending Dropoff by Modem for Ch0	8	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-128	Analogue Sending Dropoff by Modem for Ch1	8	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-129	Analogue Sending Dropoff by Modem for Ch2	8	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-130	Analogue Sending Dropoff by Modem for Ch3	15	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-131	Analogue Sending Dropoff by Modem for Ch4	8	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-132	Analogue Sending Dropoff by Modem for Ch5	15	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments
825-133	Busy Tone Detection Enable	1: Detect	0~1	0: Do not detect, 1: Detect
825-134	Dial Tone Detection Enable	0: Do not detect	0~1	0: Do not detect, 1: Detect
825-158	Transmission Completion No. on Transmission Log	0		0: Total No. of sheets transmitted including those resent 1: Total No. of sheets transmitted for each line connection
825-159	ECM Ability	1: Enable	0~1	0: Disable, 1: Enable
825-160	CNG Sending Time	60 (3000ms)		1sec (20) ~ 7sec (140) (1=50msec)
825-161	CED Hz	1		0: 1080Hz 1: 2100Hz
825-162	T1 Timer Value on FAX Receiving	39sec	1~90	1~90 (sec)
825-163	Silent Time	75msec (75)		0: 75msec 1: 1sec
825-164	Enable FSK Detection before Receiving Image (Non-ECM)	1: Detect	0~1	0: Do not detect, 1: Detect
825-165	Enable FSK Detection before Receiving Image	0: Do not detect	0~1	0: Do not detect, 1: Detect
825-166	G3M CSI Send	0: Transmit	0~1	0: Transmit Off=1
825-168	Local Name Send	1: On	0~1	0: Off, 1: On
825-169	Local Name Resend	0: Do not resend	0~1	0: Do not resend, 1: Resend
825-170	ECM Frame Size	256bytes		256bytes=0 64bytes=1
825-171	G3M ECM T5 Time	0: 1(min)		0: 1 (min) 1: 3 (min) 2: No limit
825-173	RTN Command Sending Threshold (Ratio)	0: 5%		0: 5% 1: 10% 2: 15% 3: 20%
825-174	RTN Command Sending Threshold (Line)	2		0: No limit 1: 3 lines 2: 6 lines 3: 12 lines
825-175	DIS/DTC FIF Sending Byte Number	0		0: No limit 1: 4bytes System
825-176	EMC Ability	1: Enable	0~1	0: Disable, 1: Enable
825-177	CCITT Trellis Ability	2		0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-178	CCITT Trellis Ability (International Communications)	2		0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-179	ECM Block Synchronize for Ch0	200ms		200ms=00 500ms=1 1sec=2
825-180	ECM Block Synchronize for Ch1	200ms		200ms=00 500ms=1 1sec=2
825-181	ECM Block Synchronize for Ch2	200ms		200ms=00 500ms=1 1sec=2
825-182	ECM Block Synchronize for Ch3	200ms		200ms=00 500ms=1 1sec=2

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-183	ECM Block Synchronize for Ch4	200ms		200ms=00 500ms=1 1sec=2
825-184	ECM Block Synchronize for Ch5	200ms		200ms=00 500ms=1 1sec=2
825-185	ECM CTC Number for Ch0	5	0~7	0=000 ~ 7=111
825-186	ECM CTC Number for Ch1	5	0~7	0=000 ~ 7=111
825-187	ECM CTC Number for Ch2	5	0~7	0=000 ~ 7=111
825-188	ECM CTC Number for Ch3	5	0~7	0=000 ~ 7=111
825-189	ECM CTC Number for Ch4	5	0~7	0=000 ~ 7=111
825-190	ECM CTC Number for Ch5	5	0~7	0=000 ~ 7=111
825-191	ECM CTC Speed Shift Down for Ch0	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-192	ECM CTC Speed Shift Down for Ch1	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-193	ECM CTC Speed Shift Down for Ch2	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-194	ECM CTC Speed Shift Down for Ch3	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-195	ECM CTC Speed Shift Down for Ch4	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-196	ECM CTC Speed Shift Down for Ch5	SHIFT DOWN		NOT=0 SHIFT DOWN=1
825-197	G3 DIS Ignore for Ch0	0		0: Ignore DIS 1: Ignore DIS once
825-198	G3 DIS Ignore for Ch1	0		0: Ignore DIS 1: Ignore DIS once
825-199	G3 DIS Ignore for Ch2	0		0: Ignore DIS 1: Ignore DIS once
825-200	G3 DIS Ignore for Ch3	0		0: Ignore DIS 1: Ignore DIS once
825-201	G3 DIS Ignore for Ch4	0		0: Ignore DIS 1: Ignore DIS once
825-202	G3 DIS Ignore for Ch5	0		0: Ignore DIS 1: Ignore DIS once
825-203	G3 ECM EOR_Q Command for Ch0	1 (Domestic)		0: Stop 1: Continue
825-209	G3 Modem Mode for Ch0	AUTO		0: CCITT G3 1: AUTO
825-210	G3 Modem Mode for Ch1	AUTO		0: CCITT G3 1: AUTO
825-211	G3 Modem Mode for Ch2	AUTO		0: CCITT G3 1: AUTO
825-212	G3 Modem Mode for Ch3	AUTO		0: CCITT G3 1: AUTO
825-213	G3 Modem Mode for Ch4	AUTO		0: CCITT G3 1: AUTO
825-214	G3 Modem Mode for Ch5	AUTO		0: CCITT G3 1: AUTO
825-215	G3 RX Modem Speed for Ch0 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-216	G3 RX Modem Speed for Ch1 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-217	G3 RX Modem Speed for Ch2 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-218	G3 RX Modem Speed for Ch3 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-219	G3 RX Modem Speed for Ch4 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-220	G3 RX Modem Speed for Ch5 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-221	G3 RX Modem Speed for Ch0 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-222	G3 RX Modem Speed for Ch1 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-223	G3 RX Modem Speed for Ch2 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-224	G3 RX Modem Speed for Ch3 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-225	G3 RX Modem Speed for Ch4 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-226	G3 RX Modem Speed for Ch5 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-227	G3 TX Modem MAX Speed for Ch0 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-228	G3 TX Modem MAX Speed for Ch1 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-229	G3 TX Modem MAX Speed for Ch2 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-230	G3 TX Modem MAX Speed for Ch3 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-231	G3 TX Modem MAX Speed for Ch4 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-232	G3 TX Modem MAX Speed for Ch5 except V.34	14400bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-233	G3 TX Modem MAX Speed for Ch0 except V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-234	G3 TX Modem MAX Speed for Ch1 except V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-235	G3 TX Modem MAX Speed for Ch2 execpt V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-236	G3 TX Modem MAX Speed for Ch3 except V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-237	G3 TX Modem MAX Speed for Ch4 except V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001
825-238	G3 TX Modem MAX Speed for Ch5 except V.34 Overseas	4800bps		1~8 14400bps/V.17=1000 12000bps/V.17=0111 9600bps/V.17=0110 7200bps/V.17=0101 9600bps/V.29=0100 7200bps/V.29=0011 4800bps/V.27ter=0010 2400bps/V.27ter=0001

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-239	G3 TX Modem MAX Speed for Ch0 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-240	G3 TX Modem MAX Speed for Ch1 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-241	G3 TX Modem MAX Speed for Ch2 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-242	G3 TX Modem MAX Speed for Ch3 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-243	G3 TX Modem MAX Speed for Ch4 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-244	G3 TX Modem MAX Speed for Ch5 on V.34	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-245	G3 TX Modem MAX Speed for Ch0 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-246	G3 TX Modem MAX Speed for Ch1 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-247	G3 TX Modem MAX Speed for Ch2 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-248	G3 TX Modem MAX Speed for Ch3 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-249	G3 TX Modem MAX Speed for Ch4 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-250	G3 TX Modem MAX Speed for Ch5 on V.34 Overseas	33600bps		1~14 33600bps=1110 31200bps=1101 28800bps=1100 26400bps=1011 24000bps=1010 21600bps=1001 19200bps=1000 16800bps=0111 14400bps=0110 12000bps=0101 9600bps=0100 7200bps=0011 4800bps=0010 2400bps=0001
825-251	G3 RX Cable Equalizer for Ch0	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-252	G3 RX Cable Equalizer for Ch1	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-253	G3 RX Cable Equalizer for Ch2	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-254	G3 RX Cable Equalizer for Ch3	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-255	G3 RX Cable Equalizer for Ch4	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-256	G3 RX Cable Equalizer for Ch5	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-257	G3 TSI / CIG Send TSI for Ch0	AUTO		0~255 AUTO=00 Forced transmission=01 Do not transmit=10
825-263	G3 TX Cable Equalizer for Ch0	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-264	G3 TX Cable Equalizer for Ch1	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-265	G3 TX Cable Equalizer for Ch2	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-266	G3 TX Cable Equalizer for Ch3	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-267	G3 TX Cable Equalizer for Ch4	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-268	G3 TX Cable Equalizer for Ch5	1		0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-274	Error Line Control	0: No limit		0: No limit 1: 128 lines 2: 256 lines 3: 512 lines 4: 1024 lines 5: 2048 lines
825-275	Error Judge Selection on RTN Sending	0: Proportion		0: Proportion 1: No. of lines
825-276	Tone Receiving Detect Level for Ch0	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-277	Tone Receiving Detect Level for Ch1	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-278	Tone Receiving Detect Level for Ch2	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-279	Tone Receiving Detect Level for Ch3	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-280	Tone Receiving Detect Level for Ch4	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-281	Tone Receiving Detect Level for Ch5	1: -43dBm		0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-285	Transmission Declaration Paper Size	0x014c 0726: A3, A4, B4, A4LEF, A5LEF, B5LEF, Letter, Legal, Ledger, Letter LEF		0x0000 0002: A3 0x0000 0004: A4 0x0000 0020: B4 0x0000 0100: Letter 0x0000 0200: Legal 0x0000 0400: Ledger 0x0000 0800: 8.5x13" 0x0004 0000: A4LEF 0x0008 0000: A5LEF 0x0040 0000: B5LEF 0x0100 0000: Letter LEF 0x0200 0000: Letter Half LEF
825-322	V34 Modulate Ability Enable	1=On	0~1	0=Off, 1=On
825-421	CED Start Time	2=1.0sec	0~3	0=2.0sec 1=0.2sec 2=1.0sec 3=2.3sec
825-422	Outside Line No. Detect TX Mode Ch0	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34
825-423	Outside Line Number Detect TX Mode Ch1	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34
825-424	Outside Line Number Detect TX Mode Ch2	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34
825-425	Outside Line Number Detect TX Mode Ch3	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34
825-426	Outside Line Number Detect TX Mode Ch4	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34

Table 11 FAX Service

Chain-Link	Content	Default	Range	Meaning
825-427	Outside Line Number Detect TX Mode Ch5	0: Do not set (Follow machine settings)	0~2	0: Do not set (Follow machine settings), 1: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in V.34. If it is different from the outside line recognition no., transmission will be in other than V.34, 2: If the 1st digit of the dial data (calling) is detected as the outside line recognition no., transmission will be in other than V.34. If it is different from the outside line recognition no., transmission will be in V.34
825-428	Outside Line Detect Number Ch0	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-429	Outside Line Detect Number Ch1	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-430	Outside Line Detect Number Ch2	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-431	Outside Line Detect Number Ch3	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-432	Outside Line Detect Number Ch4	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-433	Outside Line Detect Number Ch5	0	0~11	0: 0 ~ 9: 9, 10: #, 11: *
825-434	Hand Set Control in Sleep Mode	1	0~1	0: Not connected (no tone), 1: Connected (tone)
825-444	DAA Ringer Threshold CH1	0	0~1	0: 11~22Vms 1: 17~33Vms This is usually adjusted in the hardware to 11~22Vms.
825-445	DAA Ringer Threshold CH2	0	0~1	0: 11~22Vms 1: 17~33Vms This is usually adjusted in the hardware to 11~22Vms.
825-446	DAA Ringer Threshold CH4	0	0~1	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	Content	Default	Range	Meaning
830-007	POP User Name	NULL		ASCII 64 characters
830-009	POP User Name 2	NULL		ASCII 64 characters
830-011	POP User Name 3	NULL		ASCII 64 characters
830-013	POP User Name 4	NULL		ASCII 64 characters
830-015	POP User Name 5	NULL		ASCII 64 characters
830-022	SMTP / POP3 Receiving Start	1: POP Receive	0~1	0: SMTP Receive, 1: POP Receive
830-023	POP Receiving Interval	10min	1~120	1~120min
830-024	Delete after POP Receiving	0: Delete	0~1	1: Do not delete, 0: Delete
830-025	Target of Mail Header Printing	1: Print headers and contents	0~3	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
830-026	Error Mail Print Enable	1: Always print headers and contents	0~1	0: Do not print, 1: Always print headers and contents
830-027	Error Mail Send Enable	0: Do not send	0~1	1: Send, 0: Do not send
830-030	Mail Receiving Limit Enable	0: Do not limit	0~2	0: Do not limit, 1: Set domains to allow, 2: Set domains to prohibit
830-081	FAX Forward Limit Enable by Address Note	0: Do not limit	0~1	1: Limit, 0: Do not limit
830-083	SMTP Send Enable	1: Enable	0~1	0: Disable, 1: Enable
830-084	Profile of Broadcast	0: TIFF-S	0~2	[0: TIFF-S, 1: TIFF-F, 2: TIFF-J]
830-085	Sending Mode of Broadcast	0: G3 Auto	0~2	[0: G3 Auto, 1: F4800, 2: G4 Auto]
830-086	Mail Send Page Segmentation Threshold-B	10	0~999	[0~999 pages] (0: No limit)

Table 12 iFAX Service

Chain-Link	Content	Default	Range	Meaning
830-087	Delivery Check for Broadcast Transmission	0: Off	0~1	0: Off, 1: On
830-088	Delivery Check System	1: MDN	0~1	0: DNS, 1: MDN
830-090	Fax Relay Limit Size	8192	0~65535	0~65535KB (0: No limit)
830-091	POP Authentication (1)	0	0~1	0: Panel authentication, 1: APOP authentication
830-092	POP Server Port Number	110	1~65535	110, 8000~9999
830-103	DNS Return Mail Print	2	0~2	0: Do not print, 1: Always print headers and contents, 2: Print only when fail
830-109	Reply MDN Mail	1	0~1	0: Never reply, 1: Always reply

Chain 850-xxx EP-SV

Table 13 EP-SV

Chain-Link	Content	Default	Range	Meaning
850-001	Availability of EP-SV & EP Goods	0=No	0~1	[0=No, 1=Yes]
850-002	Availability of Telephone Line	0=No	0~1	[0=No, 1=Yes]
850-003	EP Data Dispatch Type	0=Send to the EP-SV	0~2	[0=Send to the EP-SV, 1=Send to the EP-DX, 2=Send to both]
850-004	Display Time of Bundle	0=Prohibit	0~1	[0=Prohibit, 1=Process]
850-007	Type of EP Goods	-	0~7	Refer to Common EP Accessories.
850-009	Print Control Function	0=Do not control	0~1	[0=Do not control, 1=Control]
850-010	Interrupt Operation When Countdown Type is Connected	1=Interrupt Off	0~1	[0=Interrupt On, 1=Interrupt Off]
850-011	CRU Life Notice Enable in EP-SV	0=Prohibit	0~1	[0=Prohibit, 1=Allow]
850-012	CRU Warning Notice Enable in EP-SV	0=Prohibit	0~1	[0=Prohibit, 1=Allow]
850-015	Accessory Control Enable in Scan & FAX	0=Do not control	0~1	[0=Do not control, 1=Control]
850-016	Disable Control at Countdown Accessory	0=Cancel job (Cancel)	0~1	[0=Cancel job (Cancel), 1=Pause job]
850-017	Use Card No. In Print Control	1: Use card no.	0~1	[0: Do not use card no., 1: Use card no.]
850-018	Paper Handling Mode In Dup With Old Dec Accl	1: Single sheet mode	0~1	[0: Clear Single sheet mode and speed up, 1: Single sheet mode]

Chain 860-xxx EP-DX

Table 14 EP-DX

Chain-Link	Content	Default	Range	Meaning
860-011	Remote Center Call Function Enable	1	0~1	0: Off 1: On
860-012	Alert Send Function Enable	0	0~1	0: Off 1: On
860-032	CRU Exchange Frequency	0		0~0xFFFFFFFF

Table 15 Diag

Chain-Link	Content	Default	Range	Meaning
870-001	Diag Entry before Power Off Mode	Normal		[Normal, Diag] (Auto Set)
870-010	XERO:CRU #1 PR Wear previous value	-		[0~99999999]
870-011	XERO:CRU #2 PR Wear previous value	-		[0~99999999]
870-012	XERO:CRU #3 PR Wear previous value	-		[0~99999999]
870-013	XERO:CRU #4 PR Wear previous value	-		[0~99999999]
870-014	XERO:#1CRU WARNING previous value	-		[0~99999999]
870-015	XERO:#1DRUM Total CYCLE previous value	-		[0~99999999]
870-016	XERO:#2DRUM Total CYCLE previous value	-		[0~99999999]
870-017	XERO:#3DRUM Total CYCLE previous value	-		[0~99999999]
870-018	XERO:#4DRUM Total CYCLE previous value	-		[0~99999999]
870-019	XERO:#1DRUM DC CYCLE previous value	-		[0~99999999]
870-020	XERO:#2DRUM DC CYCLE previous value	-		[0~99999999]
870-021	XERO:#3DRUM DC CYCLE previous value	-		[0~99999999]
870-022	XERO:#4DRUM DC CYCLE previous value	-		[0~99999999]
870-023	XERO:#1DRUM AC CYCLE previous value	-		[0~99999999]
870-024	XERO:#2DRUM AC CYCLE previous value	-		[0~99999999]
870-025	XERO:#3DRUM AC CYCLE previous value	-		[0~99999999]
870-026	XERO:#4DRUM AC CYCLE previous value	-		[0~99999999]
870-027	Xfer:IBT Belt(IMPS) previous value	-		[0~99999999]
870-028	Xfer:IBT Belt(CYCLE) previous value	-		[0~99999999]
870-029	Xfer:1st BTR previous value	-		[0~99999999]
870-030	Xfer:Back Up Roll previous value	-		[0~99999999]
870-031	Xfer:2nd BTR Unit previous value	-		[0~99999999]
870-032	Xfer:Bearing BTR previous value	-		[0~99999999]
870-033	Xfer:Trim within Transfer Module previous value	-		[0~99999999]
870-034	Xfer:Belt Cleaner Blade previous value	-		[0~99999999]
870-035	Xfer:Belt Cleaner Film Seal previous value	-		[0~99999999]
870-036	PH:1Tray NMBR of Feeds previous value	-		[0~99999999]
870-037	PH:MSI NMBR of Feeds previous value	-		[0~99999999]

Chain-Link	Content	Default	Range	Meaning
870-038	PH:3TM 2Tray NMBR of Feeds previous value	-		[0~99999999]
870-039	PH:3TM 3Tray NMBR of Feeds previous value	-		[0~99999999]
870-040	PH:3TM 4Tray NMBR of Feeds previous value	-		[0~99999999]
870-041	PH:1TM 2Tray NMBR of Feeds previous value	-		[0~99999999]
870-042	PH:TTM 2Tray NMBR of Feeds previous value	-		[0~99999999]
870-043	PH:TTM 3Tray NMBR of Feeds previous value	-		[0~99999999]
870-044	PH:TTM 4Tray NMBR of Feeds previous value	-		[0~99999999]
870-045	PV(CV) Counter for FILTER Life previous value	-		[0~99999999]
870-200	UI Diag Parameters Input Tray	1: Tray 1	0~9	[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
870-202	UI Diag Parameters Total Sets In Job	1: 1 set	1~65535	[1~65535 sets]
870-203	UI Diag Parameters Paper Plex	0: 1 Sided	0~2	[0 : 1 Sided, 1: 2: 2 Sided (H to H), 2: 2: 2 Sided (H to T)]
870-204	UI Diag Parameters Media Type	0: Plain	0~66	[0: Plain, 1: Recycled, 2: Bond, 3: Lightweight, 4: Heavyweight 1, 5: Heavyweight 2, 6: Heavyweight 1 (Side 2), 7: Heavyweight 2 (Side 2), 8: Extra Heavyweight, 9: Extra Heavyweight (Side 2), 10: Transparency, 11: Adhesive, 12: Labels, 13~31: Plain A~S, 32: Heavyweight 1A, 33: Heavyweight 1B, 34: Heavyweight 1S, 35: Heavyweight 1(S2)A, 36: Heavyweight 1(S2)B, 37: Heavyweight 1(S2)S, 38: Heavyweight 2A, 39: Heavyweight 2B, 40: Heavyweight 2S, 41: Heavyweight 2(S2)A, 42: Heavyweight 2(S2)B, 43: Heavyweight 2(S2)S, 44: Heavyweight 1C, 45: Heavyweight 1C(2S), 46: Heavyweight 2C, 47: Heavyweight 2C(2S), 48: Heavyweight 2D, 49: Heavyweight 2D(2S), 50: Coated 1, 51: Coated 1(S2), 52: Coated 2, 53: Coated 2(S2), 54: Coated 1 Special (Coated Paper), 55~59: Custom Paper 1~5, 60: Tracing Paper, 61: Copied Paper, 62: Tabbed Paper Heavyweight 1, 63: Tabbed Paper Heavyweight 2, 64: Labels 1, 65: Labels 2, 66: Hole-Punched]
870-205	UI Diag Parameters Color Mode	0: 4-color mode	0~3	[0: 4-color mode, 1: Tri-color mode, 2: Monochrome, 3: BW]
870-206	UI Diag Parameters Single Color	0: Black	0~6	[0: Black, 1: Yellow, 2: Magenta, 3: Cyan, 4: Red, 5: Green, 6: Blue]
870-207	UI Diag Parameters Screen	0: Text	0~9	[0: Text, 1: Photo, 2: Binary ED, 3: 24ED, 4: 320DACS, 5: 600, 6: 300, 7: 200C, 8: 200R, 9: 150]
870-208	UI Diag Parameters LUT	3: IOT On	0~3	[0: All Off, 1: IOT On, 2: Ctrack On, 3: IOT On]
870-209	UI Diag Parameters Coveragein	0: 0%	0~100	[0~100%]
870-210	UI Diag Parameters Resolution	0: 1200x1200	0~4	[0: 1200x1200, 1: 1200x600, 2: 600x600, 3: 300x300, 4: Not used]

Table 15 Diag

Chain-Link	Content	Default	Range	Meaning
870-211	UI Diag Parameters Media Size	5: A4LEF	0~50	[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: Postcard SEF, 39: Postcard LEF, 40: Prepaid Postcard SEF, 41: Postcard(4x6)SEF, 42: Postcard(4x6)LEF, 43: Postcard(5x7)SEF, 44: Choukei 3SEF, 45: Choukei 3LEF, 46: Commercial 10LEF, 47: Monarch LEF, 48: DL LEF, 49: Kakukei 20SEF, 50: Kakukei 6LEF]
900-001~999	Tag 1V~Tag 999V	0	0~1	Tag information 1V~999V[0: Off, 1: On]

Serial Number/Billing Meter Data

Purpose

Displays the Serial Number, Product Number, and Billing 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 **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 1 if the MCU PWB EPROM, or ESS PWB or ESS PWB EPROM is replaced could result in NVM corruption and disabling the machine. Refer to REP 9.2.1 MCU PWB EPROM or REP 9.2.1 ESS PWB or REP 9.2.2 ESS PWB EPROM before installing a new MCU PWB EPROM, ESS PWB, or ESS PWB EPROM.

NOTE: *GP 1 procedure is used to serialize components and load billing data on the 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.*

Reading 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.

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	Tray 4 Feed counter	300K	Replace the Feed Roll, Retard Roll, Nudger Roll.
954-805	MPT Feed counter	300K	Replace the Feed Roll, Retard Pad.
954-807	Fuser	175K	Replace the Fuser.
954-808	Bias Transfer Roll	300K	Replace the Bias Transfer Roll.
956-802	IIT Scan	-	No action required - counter only.
956-803	Lamp On Time	-	No action required - count after HFSI Counter Clear.
956-804	Lamp On Count	-	No action required - count after HFSI Counter Clear.
955-806	Document Feed	-	No action required - counter only.
955-807	Simplex Document Feed	-	No action required - counter only.
955-808	Duplex Document Feed	-	No action required - counter only.
956-808	Platen Open Count	-	No action required - counter only. (Platen models)
955-810	DADF Platen Open Count	-	No action required - counter only. (DADF models)
955-829	Invert Solenoid ON Count	-	No action required - counter only.
955-830	DADF Stamp Sole-noid	-	FX, FXAP only.

Initialize HFSI Counters

Purpose

Initialize the HFSI Counter.

Procedure

Reading and resetting HFSI

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/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.)

Table 1 IOT HFSI

Chain-Link	Name	Initial Value	Value	1Count	Remarks
954-803	Tray4 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.)
954-803	Tray4 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.)
954-803	Tray4 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.)
954-803	Tray4 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.)
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	MPT 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	MPT 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	MPT 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	MPT 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.
955-830	DADF Stamp Solenoid ON Count (Solenoid Life)	0	0~300,000	Counts up when the Stamp Solenoid turns on. HFSI to Stamp Solenoid ON count after clearing the counter Recycle to Total Stamp Solenoid ON count without clearing	CVT(PF2) The NVM is controlled by the CVT.
955-831	DADF Stamp Solenoid ON Count (Ink Life)	0	0~300,000	Counts up when the Stamp Solenoid turns on. Stamp Solenoid ON count after clearing the HFSI Counter	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 **Adjustment/Others**.
3. Select **Adjust Toner Density**.
4. Select **Measure Sensor State**, then press start button.
5. The following current value data will be displayed at the current value area.
   a. ATC Target Value: Numeric display.
   b. ATC Output Value: Numeric display.
   c. ATC Result: “Ready” or “NG” for ATC Sensor status.
   d. TC Status: “Normal”, “Low TC” or “High TC” will display the current status.
6. Select **Adjust Toner Density**.
7. The “TC Status” displayed in Step 5 is divided into the following steps.
   When “Low TC” is displayed (Toner density in the Developer unit is low)
   : Select UP button to increase number. Number is depends on actual copy density.
   When “High TC” is displayed (Toner density in the Developer unit is high)
   : Select Down button to decrease number. Number is depends on actual copy density.
   When “Normal” is displayed (Toner density in the Developer unit is appropriate)
   : Procedure is completed.
8. Select Close].
9. Exit Diag. and check the copy quality.
10. Repeat step 4 to 9 until copy quality meet with specification or customer desired level.

Tray5 (Bypass) Guide Adjustment

Purpose

This guide adjustment item is provided for the following purposes:

- To check that size detection of the MPT Guide width detection is properly performed.
- To set the sensor output values for the maximum and minimum positions for the MPT Guide using NVM.
- To display the detected size in the width direction of the MPT Guide.

Procedure

1. Select **Maintenance/Diagnostics**.
2. Select **Adjustment/Others**.
3. Select **Tray5 (Bypass)** 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 MPT 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 (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	The following NVM locations will be initialized: • 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	The following NVM locations will be initialized: • Chain - Link 710 - 501, 550, 551, 554 through 568, 600 through 612 • Chain - Link 715 - 013, 017, 018, 023 through027, 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	The following NVM locations will be initialized: • 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	All user settable NVM locations in the following chains will be reset: • 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 for a list of all Input Components listed by Chain/Link ID number. Refer to Table 2, Table 4 for a list of all Output Components listed by Chain/Link ID number.*

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 **Component Control**.
4. Input Chain-Link number, then press **Start** button.
   - 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
5. 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
010-100	EXIT SENSOR	L	with paper	Not Available
010-101	EXIT SENSOR1(EXIT)	H	with paper Sensor level detected by EXIT MODULE	EXIT
012-110	Registration Clutch ON	H	IOT Regi Clutch ON	Not Available
012-111	IOT Exit Sensor	H	with paper	Not Available
012-150	Compile Exit Sensor	H	with paper	Not Available
012-151	Compile Tray No Paper Sensor	H	with paper	Not Available
012-190	H-Transport Ent. Sensor	H	with paper	Not Available
012-191	H-Transport Exit Sensor	H	with paper	Not Available
012-220	Front Tamper Home Sensor	H	other than home position	Not Available
012-221	Rear Tamper Home Sensor	H	other than home position	Not Available
012-240	Stapler Move Home Sensor	H	other than home position	Not Available
012-241	Stapler Move Position Sensor	H	other than home position	Not Available
012-242	Low Staple Sensor	H	without pin	Not Available
012-243	Self Priming Sensor	H	Not Ready	Not Available
012-244	Staple Home Sensor	H	other than home position	Not Available
012-250	Eject Clamp Home Sensor	H	other than home position	Not Available
012-251	Set Clamp Home Sensor	H	other than home position	Not Available
012-260	Upper Limit Sensor	H	upper limit position	Not Available
012-262	Stacker No Paper Sensor	H	without finisher	Not Available
012-267	Stacker Height Sensor	H	With Paper	Not Available
012-268	Stacker Stock A Sensor	H	Cover Position	Not Available
012-269	Stacker Stock B Sensor	H	Cover Position	Not Available
012-280	Compiler Cover Safety Switch	H	Compiler Upper Chute Open	Not Available
012-301	Top Cover Switch	H	Top Cover is closed	Not Available
012-302	Finisher Front Cover Switch	H	Finisher Front Cover is closed	Not Available
012-303	H-Transport Interlock Sensor	H	H-Transport is closed	Not Available
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
071-100	FEED OUT#2 SENSOR	L	with paper	Not Available

Table 1 Input Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Remarks
071-101	T/A F/O3 SENSOR	L	with paper	Not Available
071-102	T/A F/O4 SENSOR	L	with paper	Not Available
071-103	Pre FEED SENSOR3	L	with paper	Not Available
071-104	Pre FEED SENSOR4	L	with paper	Not Available
071-105	DUP WAIT SENSOR	L	with paper	DM
071-106	T/A F/O3 SENSOR	L	with paper Hot-Line Control	Not Available
071-107	T/A F/O4 SENSOR	L	with paper Hot-Line Control	Not Available
071-108	Pre FEED SENSOR1	L	with paper	Not Available
071-109	Pre FEED SENSOR2	L	with paper	Not Available
071-110	EXIT SENSOR2	H	with paper	EXIT
071-200	TRAY4 SIZE digital SENSOR	L	It is used for size detection auxiliary.	TTM does not have Digital Sensor (always 0)
071-201	TRAY1 NO PAPER SENSOR	L	Without paper	Not Available
071-202	TRAY2 NO PAPER SENSOR	L	Without paper	Not Available
071-203	TRAY3 NO PAPER SENSOR	L	Without paper	Not Available
071-204	TRAY4 NO PAPER SENSOR	L	Without paper	Not Available
071-205	MPT NO PAPER SENSOR	L	Without paper	Not Available
071-206	TRAY1 LEVEL SENSOR	L	Lifted up (Lifter is at paper feeding position)	Not Available
071-207	TRAY2 LEVEL SENSOR	L	Lifted up (Lifter is at paper feeding position)	Not Available
071-208	TRAY3 LEVEL SENSOR	L	Lifted up (Lifter is at paper feeding position)	Not Available
071-209	TRAY4 LEVEL SENSOR	L	Lifted up (Lifter is at paper feeding position)	Not Available
071-210	TRAY1 SIZE digital SENSOR	L	It is used for size detection auxiliary.	Not Available
071-211	TRAY2 SIZE digital SENSOR	L	It is used for size detection auxiliary.	Not Available
071-212	TRAY3 SIZE digital SENSOR	L	It is used for size detection auxiliary.	TTM does not have Digital Sensor (always 0)
071-213	FEED READY SIGNAL	H	Level is high. Hot-Line Control	Not Available
071-300	Left Hand COVER	L	Cover is open (Interlock switch off)	Not Available
071-301	TRAY MODULE COVER	L	Cover is open (Interlock switch off)	Not Available
071-302	Left Hand Low COVER	H	Cover is open (Interlock switch off)	Not Available
071-303	FRONT COVER	L	Cover is open (Interlock switch off)	When Left Hand Cover open, the Front Cover status can not be detected due to the hardware mechanism. Therefore the Front Cover is considered as "closed" regardless of the Front Cover being open/ closed.
071-304	Left Hand High COVER	H	Cover is open (Interlock switch off)	EXIT
071-305	DUP INTERLOCK	H	open	Not Available
073-200	FUSER FAN FAIL MONITOR SIGNAL	H		Not Available
089-100	Registration SENSOR	L	with paper	Not Available
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

Table 1 Input Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Remarks
089-201	Registration CLUTCH(EXIT)	L	in ON state Signal detected by EXIT MODULE	EXIT
091-200	DRUM DETECT	L	EP Cartridge installed	Not Available

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
012-020	Front Tamper Motor Low FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-021	Front Tamper Motor Middle FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-022	Front Tamper Motor High FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-023	Front Tamper Motor Low REAR ON/OFF	-	Same as Name	X	X	Not Available
012-024	Front Tamper Motor Middle REAR ON/OFF	-	Same as Name	X	X	Not Available
012-025	Front Tamper Motor High REAR ON/OFF	-	Same as Name	X	X	Not Available
012-026	Rear Tamper Motor Low FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-027	Rear Tamper Motor Middle FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-028	Rear Tamper Motor High FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-029	Rear Tamper Motor Low REAR ON/OFF	-	Same as Name	X	X	Not Available
012-030	Rear Tamper Motor Middle REAR ON/OFF	-	Same as Name	X	X	Not Available
012-031	Rear Tamper Motor High REAR ON/OFF	-	Same as Name	X	X	Not Available
012-040	Stapler Move Motor Low FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-042	Stapler Move Motor High FRONT ON/OFF	-	Same as Name	X	X	Not Available
012-043	Stapler Move Motor Low REAR ON/OFF	-	Same as Name	X	X	Not Available
012-045	Stapler Move Motor High REAR ON/OFF	-	Same as Name	X	X	Not Available
012-046	Staple Motor FORWARD ON/OFF	H	Same as Name	X	X	Not Available
012-047	Staple Motor REVERSE ON/OFF	H	Same as Name	X	X	Not Available
012-051	Set Clamp Paddle	-	Same as Name	X	X	Not Available
012-060	Stacker Motor UP ON/OFF	H	Same as Name	X	X	Not Available
012-061	Stacker Motor DOWN ON/OFF	H	Same as Name	X	X	Not Available
012-080	Main Drive Motor ON/OFF	L	Same as Name	X	X	Not Available
012-081	Eject Motor FORWARD ON/OFF	-	Same as Name	X	X	Not Available
012-082	Eject Motor REVERSE ON/OFF	-	Same as Name	X	X	Not Available
012-083	Eject Clamp Low DOWN	-	Same as Name	X	X	Not Available
012-084	Eject Clamp Middle DOWN	-	Same as Name	X	X	Not Available
012-085	Eject Clamp UP	-	Same as Name	X	X	Not Available
012-086	Set Clamp Paddle Solenoid ON	L	Same as Name	X	X	Not Available

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
042-001	MAIN MOTOR ON	L	Same as Name	X	X	Not Available
042-002	FUSER FAN MOTOR (HIGH SPEED)	-	Fuser Fan changes from Low to High Rotation.	X	X	Not Available
042-003	ROS FAN MOTOR ON	L	ROS Fan Motor Start & Stop	X	X	Not Available
047-001	OFFSET MOTOR1 FORWARD ROTATION	-	Same as Name	X	X	EXIT
047-002	FUSER FAN MOTOR(HIGH SPEED)	-	Fuser Fan changes from Low to High Rotation.	X	X	Not Available
047-003	OFFSET MOTOR2 FORWARD ROTATION	-	Same as Name	X	X	EXIT
047-004	OFFSET MOTOR2 REVERSE ROTATION	-	Same as Name	X	X	EXIT
047-005	OFFSET MOTOR1 REVERSE ROTATION	-	Same as Name	X	X	EXIT
047-006	MAIN MOTOR	L	Same as Name	X	X	Not Available
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	L	ROS Motor Start & Stop	X	X	Not Available
071-001	TRAY1 LIFTER UP(FEED MOTOR Reverse)	-	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	Not Available
071-002	TRAY2 LIFTER UP(FEED MOTOR Reverse)	-	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	Not Available
071-003	TRAY3 LIFTER UP(FEED MOTOR Reverse)	-	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	Not Available
071-004	TRAY4 LIFTER UP(FEED MOTOR Reverse)	-	Turn Lift Up Motor on for two seconds when Tray 4 Level Sensor is "L"(lifted down). Lifter Motor will not rotate when Tray 4 Level Sensor is "H"(lifted up).	O	X	Not Available
071-007	TRAY1 FEED MOTOR	-	Same as Name	X	X	Not Available

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
071-008	TRAY2 FEED MOTOR	-	Same as Name	X	X	Not Available
071-012	SMH FEED CLUTCH	L	Same as Name	X	X	Not Available
071-017	TA MOTOR ON (242, 1-2phase)	L	Same as Name	X	X	242mm/s, 1-2phase energization
071-018	TA MOTOR ON (145, 1-2phase)	L	Same as Name	X	X	145mm/s, 1-2phase energization
071-036	MAIN MOTOR ON	L	Same as Name	X	X	Not Available
071-037	DRUM MOTOR ON	L	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.
073-006	T/A MOTOR	L	Same as Name	X	X	Not Available
073-009	TRAY3 FEED MOTOR	-	Same as Name	X	X	Not Available
073-010	TRAY4 FEED MOTOR	-	Same as Name	X	X	Not Available
073-013	TM T/A CL	L	Same as Name	X	X	Not Available
073-016	DUP MOTOR	-	In high speed (> process speed)	X	X	DM
073-018	HOT-LINE CHECK with alternative signal	-	Hot-Line Control MCU toggles FEED-STOP signal alternatively in period of 400-600ms, Tray Module toggles FEED-READY signal in period of 1900-2100ms.	O	X	Not Available
073-019	TRAY3 FEED MOTOR(Hot-Line)	L	Hot-Line Control	X	X	Not Available
073-020	TRAY4 FEED MOTOR(Hot-Line)	L	Hot-Line Control	X	X	Not Available
073-026	DUP MOTOR Rotate for sending paper out to regi	-	In low speed (=process speed)	X	X	DM
089-002	REGI CLUTCH	L	Same as Name	X	X	Not Available
091-002	BCR 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.
091-003	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.
091-004	DTS	<-	Same as Name	X	X	Not Available
091-005	DRUM MOTOR ON	L	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	MAIN MOTOR ON	L	Same as Name	X	X	Not Available
091-007	Developer 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.

Table 2 Output Component Control Codes IOT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Cycle Operation	Remarks
091-010	BTR(-) 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.
093-001	Dispense Motor	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	BTR(+) 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.

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	Not Available
005-110	Regi Sensor (Belt DADF/CVT)	L	Paper detected by Regi Sensor	Not Available
005-205	CVT-DADF Feed Out Sensor	H	Paper detected by Feed Out Sensor	Not Available
005-206	CVT-DADF Pre-Reg.Sensor	H	Paper detected by Pre-Reg. Sensor	Not Available
005-211	CVT-DADF Invert Sensor	H	Paper detected by Inverter Sensor	Not Available
005-212	CVT-DADF Feeder Cover Interlock Switch	-	Feeder Cover open	Not Available
005-213	CVT-DADF Platen Interlock Switch	H	Platen Interlock open	Not Available
005-215	CVT-DADF #1 Tray APS Sensor	L	Light is not blocked by the actuator	Not Available
005-216	CVT-DADF #2 Tray APS Sensor	L	Light is not blocked by the actuator	Not Available
005-217	CVT-DADF #3 Tray APS Sensor	L	Light is not blocked by the actuator	Not Available
005-218	CVT-DADF #1 APS Sensor	L	paper detected by APS No.1 Sensor	Not Available
005-219	CVT-DADF #2 APS Sensor	L	paper detected by APS No.1 Sensor	Not Available
005-220	CVT-DADF #3 APS Sensor	L	paper detected by APS No.1 Sensor	Not Available
005-221	CVT-DADF Tray Size SNR No.1	L	paper detected by Tray Size SNR No.1	Not Available
005-222	CVT-DADF Tray Size SNR No.2	L	paper detected by Tray Size SNR No.2	Not Available
005-224	Scan Start	H	Scan Start Signal ON	Not Available
005-225	Nudger Position Snr	H	The Nudger Roll is at UP position.	Not Available
062-201	Sheet Abort	L	Document Regist	Not Available
062-212	IIT Regi Sensor	L	De-actuation of Regi Sensor	Not Available
062-240	ADF Exist	H	DADF is not installed	Not Available
062-251	APS Sensor1	APS SNR1:L APS ON: H	Document detected	Not Available
062-253	APS Sensor3	APS SNR3:L APS ON: H	Document detected	Not Available
062-272	Scan Start	L	Scan available	Not Available
062-300	Platen I/L Switch	L	Platen closed	Not Available
062-301	Angle Sensor	L	Platen opened	Not Available

Table 4 Output Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Multiple Output Prohibited Items	Remarks
005-001	CVT-DADF Feed Motor(Speed1)	-	ON for 50sec -> Auto OFF	O	005-002~005-014	Not Available
005-002	CVT-DADF Feed Motor(Speed2)	-	ON for 50sec -> Auto OFF	O	005-001 005-003~005-014	Not Available
005-003	CVT-DADF Feed Motor(Speed3)	-	ON for 50sec -> Auto OFF	O	005-001~005-002 005-004~005-014	Not Available
005-004	CVT-DADF Feed Motor(Speed4)	-	ON for 50sec -> Auto OFF	O	005-001~005-003 005-005~005-014	Not Available
005-005	CVT-DADF Feed Motor(Speed5)	-	ON for 50sec -> Auto OFF	O	005-001~005-004 005-006~005-014	Not Available
005-006	CVT-DADF Feed Motor(Speed6)	-	ON for 50sec -> Auto OFF	O	005-001~005-005 005-007~005-014	Not Available
005-007	CVT-DADF Feed Motor(Speed7)	-	ON for 50sec -> Auto OFF	O	005-001~005-006 005-008~005-014	Not Available
005-008	CVT-DADF Feed Motor(Speed8)	-	ON for 50sec -> Auto OFF	O	005-001~005-007 005-009~005-014	Not Available
005-009	CVT-DADF Feed Motor(Speed9)	-	ON for 50sec -> Auto OFF	O	005-001~005-008 005-010~005-014	Not Available
005-010	CVT-DADF Feed Motor(Speed10)	-	ON for 50sec -> Auto OFF	O	005-001~005-009 005-013~005-014	Not Available
005-013	CVT-DADF Feed Motor(Speed11)	-	ON for 50sec -> Auto OFF	O	005-001~005-010 005-014	Not Available
005-014	CVT-DADF Feed Motor(Reverse)	-	ON for 50sec -> Auto OFF	O	005-001~005-013	Not Available
005-026	CVT-DADF Reg.Motor(Speed1)	-	ON for 50sec -> Auto OFF	O	005-027~005-036	Not Available
005-027	CVT-DADF Reg.Motor(Speed2)	-	ON for 50sec -> Auto OFF	O	005-026 005-028~005-036	Not Available
005-028	CVT-DADF Reg.Motor(Speed3)	-	ON for 50sec -> Auto OFF	O	005-026~005-027 005-029~005-036	Not Available
005-029	CVT-DADF Reg.Motor(Speed4)	-	ON for 50sec -> Auto OFF	O	005-026~005-028 005-030~005-036	Not Available
005-030	CVT-DADF Reg.Motor(Speed5)	-	ON for 50sec -> Auto OFF	O	005-026~005-029 005-031~005-036	Not Available
005-031	CVT-DADF Reg.Motor(Speed6)	-	ON for 50sec -> Auto OFF	O	005-026~005-030 005-032~005-036	Not Available
005-032	CVT-DADF Reg.Motor(Speed7)	-	ON for 50sec -> Auto OFF	O	005-026~005-031 005-033~005-036	Not Available
005-033	CVT-DADF Reg.Motor(Speed8)	-	ON for 50sec -> Auto OFF	O	005-026~005-032 005-034~005-036	Not Available
005-034	CVT-DADF Reg.Motor(Speed9)	-	ON for 50sec -> Auto OFF	O	005-026~005-033 005-035~005-036	Not Available
005-036	CVT-DADF Reg.Motor(Reverse)	-	ON for 50sec -> Auto OFF	O	005-026~005-036	Not Available
005-072	CVT Nip Release Solenoid	L	3sec on	O	-	Not Available

Table 4 Output Component Control Codes IIT

Chain-Link	Name	Connector Level	Meaning	Timer Off	Multiple Output Prohibited Items	Remarks
005-073	CVT Stamp Solenoid	L	ON for 10msec -> Auto OFF	O	-	Not Available
005-083	Doc Ready	L	Turn ON the Doc Ready signal.	X	-	Not Available
005-084	Doc Set LED	L	Belt: Turn ON the DOC SET LED	X(Belt) O(CVT)	-	Not Available
005-088	Image Area	H	ON for 5sec	O	-	Not Available
005-090	Nudger initialize	-	Performs Nudger Roll initialization.	O	-	Not Available
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.
062-005	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.
062-086	IIT Image Area	(Differential) H	IMAGE-AREA Signal Output	X	-	Not Available
062-091	Exchange To ADF	L	Turn ON the document exchange command signal to the DADF	X	-	Not Available

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. 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 **Print Test Pattern**.
3. Select **Pattern Number**.
4. Select **Paper Tray**.
5. Select **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	Objective / Overview	Built-in Image Sub
001	Horizontal Stripe	Check operation around the ROS/Xero.	IOT
002	All Black	For isolating the problem	IOT
003	All White	For isolating the problem	IOT
021	No Paper Run	For No Paper Run specified by the MF-UI.	IOT

Table 2 Parameter settings available for pattern output

No.	Name	Image Size	Tray	Paper Sizes when using MPT	Paper Types when using MPT	Simp/Dup
001	Horizontal Stripe	A3x17inch(*1)	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	Cannot be specified (Prints using specified paper sizes even when using the MPT)	Plain	Simp/Dup
002	All Black	A3x17inch(*1)	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	Cannot be specified (Prints using specified paper sizes even when using the MPT)	Plain	Simp/Dup
003	All White	A3x17inch(*1)	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	Cannot be specified (Prints using specified paper sizes even when using the MPT)	Plain	Simp/Dup
004	No Paper Run	-	Tray 1:1	-	-	Simp

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 MPT.*

Table 3 Pattern Overview

No.	Pattern Name	Objective / Overview	Built-in Image Sub
051	Paper Feed Alignment Adjustment pattern (Grid Pattern)	For IOT Regi Adjustment 20mm interval/line spacing 0.2 +/- 0.025mm	Controller
052	Total Chart	For adjustment and isolating the problem	Controller

Table 4 Parameter settings available for pattern output

No.	Name	Image Size	Tray	Paper Sizes when using MPT	Paper Types when using MPT	Simp/ Dup
051	Paper Feed Alignment Adjustment pattern (Grid Pattern)	1	(*1)	(*3)	A4 or Letter LEF	-
052	Total Chart	1	(*2)	(*3)	A3 or 11"x17"	-

(*1):Length is longer than A4 length and breadth is longer than Letter breadth.

(*2): Displays 294mmx17inch (A3 breadth x Ledger length) (means that A3 and Ledger are both supported sizes)

(*3):Refer to the specifications described in Detection.

Table 5 IIT Pattern Overview

No.	Pattern Name	Tray	Paper Sizes when using MPT	Paper Types when using MPT	Simp/Dup
101	IIT Fast Scan Ink Gradation	Tray 1:1 Tray 2:2 Tray: 33 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup

Table 5 IIT Pattern Overview

No.	Pattern Name	Tray	Paper Sizes when using MPT	Paper Types when using MPT	Simp/Dup
103	IIT Slow Scan Ink Gradation	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
105	Shading Data Output	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
107	1 dot-wide grid	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
109	2dot-wide grid	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
111	4dot-wide grid	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
114	Fast Scan 256 Gradation	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
116	Slow Scan 256 Gradation	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup
118	Slow Scan 256 Dotted Line	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup

Table 5 IIT Pattern Overview

No.	Pattern Name	Tray	Paper Sizes when using MPT	Paper Types when using MPT	Simp/Dup
120	Even Density of the Whole Page	Tray 1:1 Tray 2:2 Tray 3:3 Tray 4:4 MPT:5	A3SEF	Plain	Simp/Dup

Webpage Administrator Password

Required to change settings on machine.

User Name: 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 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter 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 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter 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 11111, or code is available.

1. Press the **Log In / Out** Button on the Control Panel and enter 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 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, from the ESS to the FMO PWB, from the FMO to the FCB 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

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
014	Tonal Signal Output	1300Hz
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)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
102	V.34 Signal Output	16800/2400 (HDLC Flag)
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)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
148	V.34 Signal Output	19200/3429 (HDLC Flag)
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**.
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 (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 and billing data integrity when PWBs with billing data must be replaced.

Procedure

CAUTION

*To maintain the integrity of the serial number and billing data never replace all three PWBs at once. If any of the following billing data PWBs needs replacing, replace them **ONE AT A TIME** according to this procedure:*

- *ESS PWB.*
- *MCU NVM 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. Select **Maintenance/Diagnostics**.
2. Select **Adjustment/Others**.
3. Select **Machine ID/Billing Data**.
4. Select the PWB that has not been replaced.
5. Enter the Serial No. and push Confirm button twice.

***NOTE:** If any of the following conditions exist, escalate the call to Field engineering or the NTS:*

- *The displayed serial numbers match each other but do not match the data plate.*
- *Two or more numbers do not agree with the data plate and the third number.*
- *The displayed numbers are all different.*

6. The **Set Serial Number** button will become active. Click the button. A series of pop-up windows will open. Follow the instructions on the screen to synchronize the serial numbers.

CAUTION

*To maintain the integrity of the serial number and billing data never replace all three 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**. 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.*

7. If any PWB will not synchronize, replace that PWB and re-synchronize.

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 Print Mode Settings (report tree is show for your information; mode settings contain settings lists):
   - 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 (5 circles) appears and the second circle starts to blink.

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 (5 circles) appears and the second circle starts to blink.

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 (5 circles) appears and the second circle starts to blink.

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 (5 circles) appears and the second circle starts to blink.

GP 7 Country Code Setting

Purpose

To input country code.

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. Perform NVM Read/Write on Chain Link 790-570.
   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 KO mode.
   a. Push Log In/Out button on Control Panel.
   b. Enter 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 790-570 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 B 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 B ROM, IIT ROM, ADF ROM, and FAX ROM*

Firmware Version of Duplex, Exit, and TTM

NOTE: *Obtaining the Firmware Level for the Duplex Module, the Exit Module and the TTM (Tandem 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. 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.
4. To check Duplex go to step 5.
   To check Exit go to step 6.
   To check TTM go to step 7.
5. Perform following to check Duplex.
   a. Enter 740-010 using number keypad and select **Confirm/Change**.
   b. Record the Current Value. Place a decimal point after the value.
   c. Select **Cancel**.
   d. Enter 740-011 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 Exit.
   a. Enter 740-012 using number keypad and select **Confirm/Change**.
   b. Record the Current Value. Place a decimal point after the value.
   c. Select **Cancel**.
   d. Enter 740-013 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.
7. Perform following to check TTM.
   a. Enter 740-088 using number keypad and select **Confirm/Change**.
   b. Record the Current Value. Place a decimal point after the value.
   c. Select **Cancel**.
   d. Enter 740-089 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.

Space Requirements

Installation space requirements are shown in Figure 1 (CC C123/C128/C133, WC M123/M128/133 w/out Finisher), Figure 2 (CC C123/C128, WC M123/M128/133 w/Finisher).

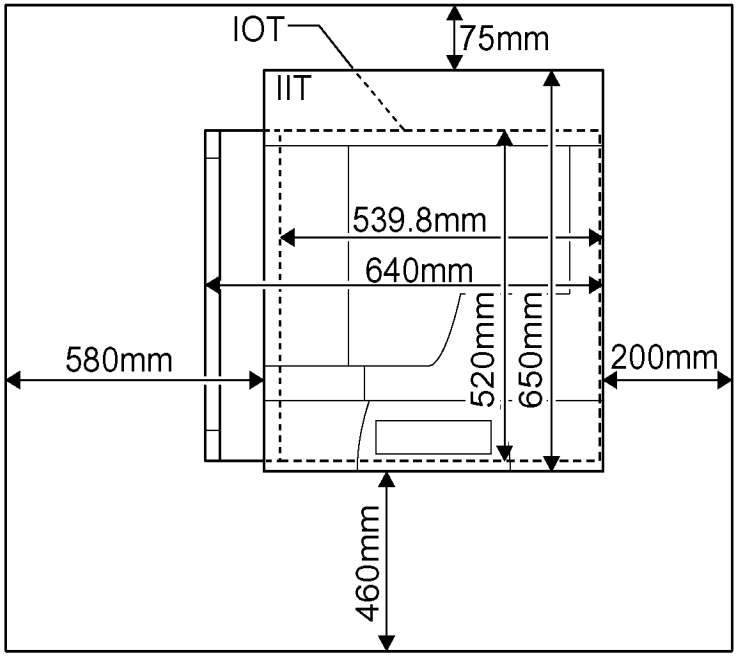


Figure 1 Space Requirement - CC C123/128/133, WC M123/128/133 w/out Finisher (j0st61001)

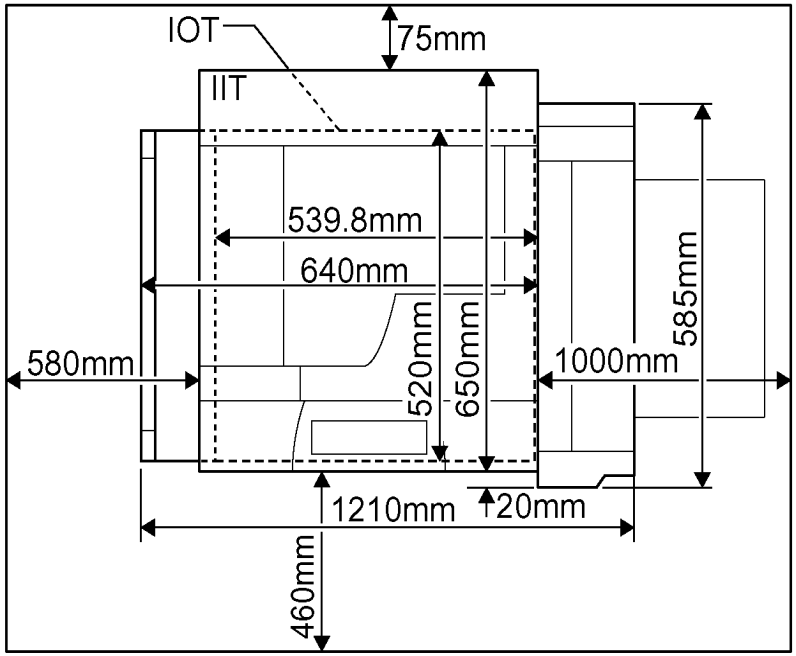


Figure 2 Space Requirement - CC C123/128/133, WC M123/128/133 w/Finisher (j0st61002)

Product Codes

Table 1 Product Codes CC C123/128/133

No.	Item	Product Code
1	CopyCenter123 Platen 120V	TFY
2	CopyCenter123 Platen 220V	TGD
3	CopyCenter123 DADF 120V	TFW
4	CopyCenter123 DADF 220V	TGC
5	CopyCenter133 DADF 120V	WVY
6	CopyCenter133 DADF 220V	WWC
7	2TM	UDH
8	TTM	UDK
9	2TM(CopyCenter123/128 Only)	UDH
10	TTM(CopyCenter123/128 Only)	UDK
11	2TM (CopyCenter123/128 /133 Downward Conpatibility)	WWD
12	TTM (CopyCenter123/128 /133 Downward Conpatibility)	WWE
13	Label for WC M123	UDN
14	Label for WC M128	UDP
15	Label for WC Pro123	UPL
16	Label for WC Pro128	UPM
17	Label for WC 133	WWF
18	Label for WC Pro133	WWG
19	Finisher XC 120V NA(CopyCenter123/128 Only)	UDR
20	Finisher XC 220V EU(CopyCenter123/128 Only)	UDT
21	Finisher XC 120V(CopyCenter123/128 /133 Downward Conpatibility)	YFC
22	Finisher XC 220V(CopyCenter123/128 /133 Downward Conpatibility)	YFD

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 kg (20 lb.)
Finisher	30 kg (66 lb.)

Paper Capacities

Table 3 Paper Capacities

Specification	Paper Trays 1 - 4	Tray 5 (Bypass)
Paper Sizes	• Min: 139.7W x 182L • Max: 297W x 432Lmm	Paper • 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, 3, 4) Tray 1: 60 - 105 gsm	Range: 60 - 216 gsm
Capacities 24 lb. (90 gsm)	TTM: 3000 sheets total: • Tray 1: 500 sheets • Tray 2: 500 sheets • Tray 3: 800 sheets • Tray 4: 1200 sheets 2TM: 2000 sheets total: • Tray 1: 500 sheets • Tray 2: 500 sheets • Tray 3: 500 sheets • Tray 4: 500 sheets	100 sheets

Copy Speed

- B/W (plain paper; simplex; fed from Tray 1)
  - Letter size LEF: 23/28/33 ppm
  - Letter size SEF: 18/22/24 ppm
  - Legal size: 15/18/20 ppm
  - A3/11x17 in.: 13/15/17 ppm

FCOT/FPOT

First Copy Output Time (original on platen); 8.5” x 11” (A4); Tray 1;

- 4.5 sec. or less.

First Print Output Time (does not include ESS process time for prints); 8.5” x 11” (A4); Tray 1;

- 12 sec. max

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: 10º C/50ºF at 15% humidity
- Maximum: 32º C/90ºF at 70% (28º C/82ºF 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
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 38 gsm to 120 gsm.
R/E Capability:	Variable Percentages: 25% to 400% in 1% increments Preset Percentages: • 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

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 (Standard Test Pattern, 82P524/82P521)
A4 Test Pattern	082E 02010
8.5” x 11” Test Pattern	082E 02020
8.5” x 14” Test Pattern	082P 524 (Standard Test Pattern, 82P524/82P521)
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 below the IIT, at the right rear corner, above the center output tray. Fold the log and insert into this space.

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 Cartridge (30,000 sheets/A4 @6% Coverage)

Name	Part Number
XC WW-Metered	006R 01182
XC NA/DMO-W-Sold	006R 01184
XC NA/DMO-E-Sold	006R 01183

Table 2 Drum Cartridge (60,000 sheets/A4 sheets (Hard Stop))

Part Number
013R 00589

Table 3 Staple Cartridge (5,000 staples)

Part Number
008R 12915

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.
DMM	Digital Multimeter is generic name for meter that measures voltage, current, or electrical resistance.
DMO	Developing Markets Operations
Duplex	2-sided printing or copying
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)
FS	Fast Scan (direction) - Inboard to Outboard
GND	Ground
HFSI	High Frequency Service Item
HVPS	High Voltage Power Supply
Hz	Hertz (Cycles per second)
IIT	Image Input Terminal - Scanner/CCD portion of the machine
IOT	Image Output Terminal - ROS/Xero/paper handling/fusing portion of the machine
IQ	Image Quality
KC	1000 copies
KO	Key Operator
LCD	Liquid Crystal Display
LE	Lead Edge of copy or print paper, with reference to definition of term TE

Table 1

Term	Description
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
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
PC	Personal Computer
PL	Parts List
PO	Part of (Assembly Name)
PWB	Printed Wiring Board
PWS	Portable Workstation for Service
PJ	Plug Jack (electrical connections)
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
Simplex	Single sided copies
SW	Software
TE	Trail Edge of copy or print paper, with reference to definition of term LE

Table 1

Term	Description
UM	Unscheduled Maintenance
UI	User Interface
USB	Universal Serial Bus
W/	With - indicates machine condition where specified condition is present
W/O	Without - indicates machine condition where specified condition is not present
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

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 nonvolatile 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

IOT/Processor (P) Tags

NOTE: *At the time of publication no Change Tags had been issued to this machine*

7 Wiring Data

Plug/Jack Locations

Wirenets

BSDs

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	17	LVPS, Main Switch
P/J2	Figure 16	11	LVPS, Main Switch
P/J2	Figure 25	10	Finisher Rear Location
P/J3	Figure 16	14	LVPS, Main Switch
P/J4	Figure 16	19	LVPS, Main Switch
P/J6	Figure 16	12	LVPS, Main Switch
P/J7	Figure 16	13	LVPS, Main Switch
P/J11	Figure 16	16	LVPS, Main Switch
P/J12	Figure 16	15	LVPS, Main Switch
P/J50	Figure 15	5	Power Unit
P/J56	Figure 16	4	LVPS, Main Switch
P/J57	Figure 16	1	LVPS, Main Switch
P/J68	Figure 16	3	LVPS, Main Switch
P/J69	Figure 16	2	LVPS, Main Switch
P/J72	Figure 15	3	Power Unit
P/J73	Figure 15	2	Power Unit
P/J74	Figure 15	1	Power Unit
P/J75	Figure 15	4	Power Unit
P/J100	Figure 9	2	L/H Lower, Tray1/2 Feeder
P/J101	Figure 9	3	L/H Lower, Tray1/2 Feeder
P/J101A	Figure 17	2	Tray3/4 Feeder(2TM)
P/J101A	Figure 19	2	Tray3/4 Feeder(TTM)
P/J101B	Figure 17	2	Tray3/4 Feeder(2TM)
P/J101B	Figure 19	2	Tray3/4 Feeder(TTM)
P/J102	Figure 9	2	L/H Lower, Tray1/2 Feeder
P/J102A	Figure 17	3	Tray3/4 Feeder(2TM)
P/J102A	Figure 19	3	Tray3/4 Feeder(TTM)
P/J102B	Figure 17	3	Tray3/4 Feeder(2TM)
P/J102B	Figure 19	3	Tray3/4 Feeder(TTM)
P/J103	Figure 9	3	L/H Lower, Tray1/2 Feeder

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J103A	Figure 17	12	Tray3/4 Feeder(2TM)
P/J103A	Figure 19	9	Tray3/4 Feeder(TTM)
P/J103B	Figure 17	12	Tray3/4 Feeder(2TM)
P/J103B	Figure 19	9	Tray3/4 Feeder(TTM)
P/J104	Figure 8	3	Regi. Sensor, Regi. Clutch
P/J105	Figure 9	4	L/H Lower, Tray1/2 Feeder
P/J105	Figure 9	9	L/H Lower, Tray1/2 Feeder
P/J106	Figure 9	7	L/H Lower, Tray1/2 Feeder
P/J107	Figure 7	9	Duplex Unit, MPT
P/J108	Figure 7	10	Duplex Unit, MPT
P/J109	Figure 13	11	IOT Rear Location
P/J110	Figure 13	12	IOT Rear Location
P/J111	Figure 5	8	Exit2
P/J112	Figure 5	6	Exit2
P/J116	Figure 5	2	Exit2
P/J117	Figure 6	1	No.1 OCT, Fuser Assembly
P/J120	Figure 13	4	IOT Rear Location
P/J121	Figure 16	18	LVPS, Main Switch
P/J123	Figure 7	2	Duplex Unit, MPT
P/J124	Figure 7	1	Duplex Unit, MPT
P/J125	Figure 3	1	HVPS, Dispens Motor, Fuser Exit Sensor
P/J126	Figure 4	1	ROS Unit, Exit PWB
P/J127	Figure 3	2	HVPS, Dispens Motor, Fuser Exit Sensor
P/J130	Figure 4	8	ROS Unit, Exit PWB
P/J131	Figure 6	3	No.1 OCT, Fuser Assembly
P/J132	Figure 6	4	No.1 OCT, Fuser Assembly
P/J133	Figure 9	10	L/H Lower, Tray1/2 Feeder
P/J134	Figure 9	10	L/H Lower, Tray1/2 Feeder
P/J140	Figure 4	10	ROS Unit, Exit PWB
P/J150	Figure 8	2	Regi. Sensor, Regi. Clutch
P/J160	Figure 4	12	ROS Unit, Exit PWB
P/J170	Figure 4	13	ROS Unit, Exit PWB
P/J201	Figure 4	11	ROS Unit, Exit PWB
P/J201	Figure 9	1	L/H Lower, Tray1/2 Feeder
P/J202	Figure 9	1	L/H Lower, Tray1/2 Feeder
P/J204	Figure 13	9	IOT Rear Location
P/J205	Figure 7	7	Duplex Unit, MPT
P/J206	Figure 13	1	IOT Rear Location
P/J207	Figure 5	4	Exit2
P/J208	Figure 5	5	Exit2

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J209	Figure 5	7	Exit2
P/J210	Figure 5	3	Exit2
P/J212	Figure 7	6	Duplex Unit, MPT
P/J214	Figure 13	7	IOT Rear Location
P/J215	Figure 8	1	Regi. Sensor, Regi. Clutch
P/J216	Figure 3	3	HVPS, Dispens Motor, Fuser Exit Sensor
P/J219	Figure 3	4	HVPS, Dispens Motor, Fuser Exit Sensor
P/J220	Figure 5	1	Exit 2
P/J220A	Figure 17	1	Tray3/4 Feeder(2TM)
P/J220A	Figure 19	1	Tray3/4 Feeder(TTM)
P/J220B	Figure 17	1	Tray3/4 Feeder(2TM)
P/J220B	Figure 19	1	Tray3/4 Feeder(TTM)
P/J300	Figure 11	1	ESS 2 of 2
P/J301	Figure 11	8	ESS 2 of 2
P/J304	Figure 10	6	ESS 2 of 2
P/J310	Figure 11	7	ESS 2 of 2
P/J311	Figure 11	5	ESS 2 of 2
P/J320	Figure 11	2	ESS 2 of 2
J330	Figure 11	3	ESS 2 of 2
J331	Figure 11	4	ESS 2 of 2
P/J332	Figure 10	10	ESS 1 of 2
J340	Figure 10	8	ESS 1 of 2
J341	Figure 10	9	ESS 1 of 2
J345	Figure 10	7	ESS 1 of 2
J351	Figure 10	11	ESS 1 of 2
P/J360	Figure 10	4	ESS 1 of 2
P/J361	Figure 10	1	ESS 1 of 2
P/J362	Figure 10	5	ESS 1 of 2
P/J363	Figure 10	2	ESS 1 of 2
P/J364	Figure 11	6	ESS 2 of 2
P/J374	Figure 10	3	ESS 1 of 2
P/J400	Figure 14	16	MCU PWB (23/28CPM Model)
P/J400	Figure 27	17	MCU PWB (33CPM Model)
P/J401	Figure 14	17	MCU PWB (23/28CPM Model)
P/J401	Figure 27	18	MCU PWB (33CPM Model)
P/J402	Figure 14	3	MCU PWB (23/28CPM Model)
P/J402	Figure 27	4	MCU PWB (33CPM Model)
P/J403	Figure 14	5	MCU PWB (23/28CPM Model)
P/J403	Figure 27	6	MCU PWB (33CPM Model)
P/J404	Figure 14	4	MCU PWB (23/28CPM Model)

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J404	Figure 27	5	MCU PWB (33CPM Model)
P/J405	Figure 14	7	MCU PWB (23/28CPM Model)
P/J405	Figure 27	8	MCU PWB (33CPM Model)
P/J406	Figure 14	2	MCU PWB (23/28CPM Model)
P/J406	Figure 27	2	MCU PWB (33CPM Model)
P/J407	Figure 14	1	MCU PWB (23/28CPM Model)
P/J407	Figure 27	1	MCU PWB (33CPM Model)
P/J408	Figure 14	6	MCU PWB (23/28CPM Model)
P/J408	Figure 27	7	MCU PWB (33CPM Model)
P/J409	Figure 14	9	MCU PWB (23/28CPM Model)
P/J409	Figure 27	11	MCU PWB (33CPM Model)
P/J410	Figure 14	8	MCU PWB (23/28CPM Model)
P/J410	Figure 27	9	MCU PWB (33CPM Model)
P/J411	Figure 14	10	MCU PWB (23/28CPM Model)
P/J411	Figure 27	12	MCU PWB (33CPM Model)
P/J412	Figure 14	18	MCU PWB (23/28CPM Model)
P/J412	Figure 27	19	MCU PWB (33CPM Model)
P/J413	Figure 14	13	MCU PWB (23/28CPM Model)
P/J413	Figure 27	14	MCU PWB (33CPM Model)
P416	Figure 14	15	MCU PWB (23/28CPM Model)
P416	Figure 27	16	MCU PWB (33CPM Model)
J416	Figure 25	8	Finisher Rear Location
P/J417	Figure 14	12	MCU PWB (23/28CPM Model)
P/J417	Figure 27	13	MCU PWB (33CPM Model)
P/J419	Figure 14	11	MCU PWB (23/28CPM Model)
P/J419	Figure 27	3	MCU PWB (33CPM Model)
P/J420	Figure 14	20	MCU PWB (23/28CPM Model)
P/J420	Figure 27	21	MCU PWB (33CPM Model)
P/J421	Figure 14	19	MCU PWB (23/28CPM Model)
P/J421	Figure 27	20	MCU PWB (33CPM Model)
P/J422	Figure 27	10	MCU PWB (33CPM Model)
P429	Figure 14	14	MCU PWB (23/28CPM Model)
P429	Figure 27	15	MCU PWB (33CPM Model)
P/J430	Figure 4	4	ROS Unit, Exit PWB
P/J431	Figure 4	3	ROS Unit, Exit PWB
P/J432	Figure 4	5	ROS Unit, Exit PWB
P/J433	Figure 4	7	ROS Unit, Exit PWB
P/J434	Figure 4	6	ROS Unit, Exit PWB
P/J500	Figure 3	5	HVPS, Dispens Motor, Fuser Exit Sensor
P/J502	Figure 25	11	Finisher Rear Location

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
P/J505	Figure 25	12	Finisher Rear Location
P/J521	Figure 16	8	LVPS, Main Switch
P/J522	Figure 16	7	LVPS, Main Switch
P/J523	Figure 16	10	LVPS, Main Switch
P/J524	Figure 16	9	LVPS, Main Switch
P/J526	Figure 16	5	LVPS, Main Switch
P/J527	Figure 16	6	LVPS, Main Switch
P/J540	Figure 7	3	Duplex Unit, MPT
P/J541	Figure 7	4	Duplex Unit, MPT
P/J541	Figure 18	2	2TM Rear Location
P/J541	Figure 20	1	TTM Rear Location
P/J542	Figure 7	5	Duplex Unit, MPT
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
P600	Figure 6	2	No.1 OCT, Fuser Assembly
J600	Figure 13	5	IOT Rear Location
P/J601	Figure 9	8	L/H Lower, Tray1/2 Feeder
P/J602	Figure 9	6	L/H Lower, Tray1/2 Feeder
P/J605	Figure 13	8	IOT Rear Location
P606	Figure 5	10	Exit 2
J606	Figure 13	3	IOT Rear Location
P/J607	Figure 13	10	IOT Rear Location
P/J608	Figure 9	5	L/H Lower, Tray1/2 Feeder
P/J609	Figure 7	8	Duplex Unit, MPT
P/J610	Figure 3	6	HVPS, Dispens Motor, Fuser Exit Sensor
P/J613	Figure 13	2	IOT Rear Location
P/J620	Figure 4	9	ROS Unit, Exit PWB
P/J661A	Figure 17	8	Tray3/4 Feeder(2TM)
P/J661A	Figure 20	4	TTM Rear Location
P/J661B	Figure 17	9	Tray3/4 Feeder(2TM)
P/J661B	Figure 19	7	TTM Rear Location
P/J700	Figure 2	11	IIT

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
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
P/J780	Figure 21	12	DADF 1 of 2
P/J781	Figure 21	11	DADF 1 of 2

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
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	Tray3/4 Feeder(2TM)
P/J820	Figure 19	5	Tray3/4 Feeder(TTM)
P/J821	Figure 17	7	Tray3/4 Feeder(2TM)
P/J821	Figure 19	6	Tray3/4 Feeder(TTM)
P/J822	Figure 18	5	2TM Rear Location
P/J822	Figure 20	7	TTM Rear Location
P/J824	Figure 17	5	Tray3/4 Feeder(2TM)
P/J824	Figure 19	4	Tray3/4 Feeder(TTM)
P/J825	Figure 17	6	Tray3/4 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	Tray3/4 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/J2011	Figure 4	2	ROS Unit, Exit PWB
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
P/J8808	Figure 24	6	Finisher Front Location

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
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
CN102	Figure 13	6	IOT Rear Location
CNP352	Figure 12	1	Fax Box Assembly
CNP353	Figure 12	2	Fax Box Assembly
CNP354	Figure 12	3	Fax Box Assembly
CNP356	Figure 12	4	Fax Box Assembly
CNJ352	Figure 12	1	Fax Box Assembly
CNJ356	Figure 12	4	Fax Box Assembly
CNJ359	Figure 12	5	Fax Box Assembly
CNJ360	Figure 12	6	Fax Box Assembly
CON CN3	Figure 1	11	Control Panel

Table 1 Plug/Jack List

Connector Number	Figure Number	Item Number	Figure Title
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	Tray3/4 Feeder(2TM)
FS812	Figure 19	8	Tray3/4 Feeder(TTM)
FS813	Figure 17	11	Tray3/4 Feeder(2TM)
FS813	Figure 19	8	Tray3/4 Feeder(TTM)
INV CN1	Figure 1	10	Control Panel
INV CN2	Figure 1	1	Control Panel
LCD CN1	Figure 1	2	Control Panel
SJ1	Figure 5	9	Exit 2

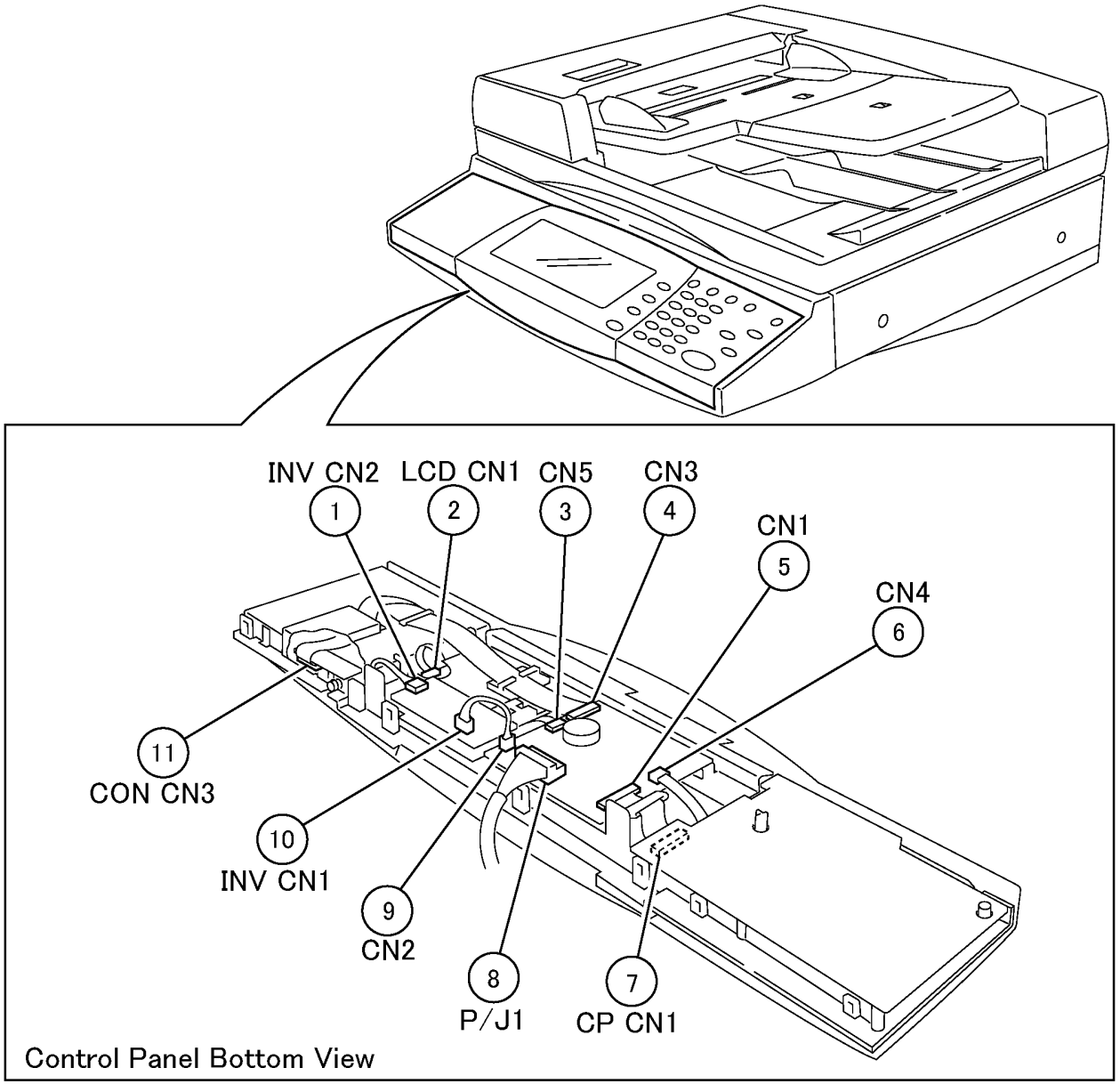


Figure 1 Control Panel (j0st7201)

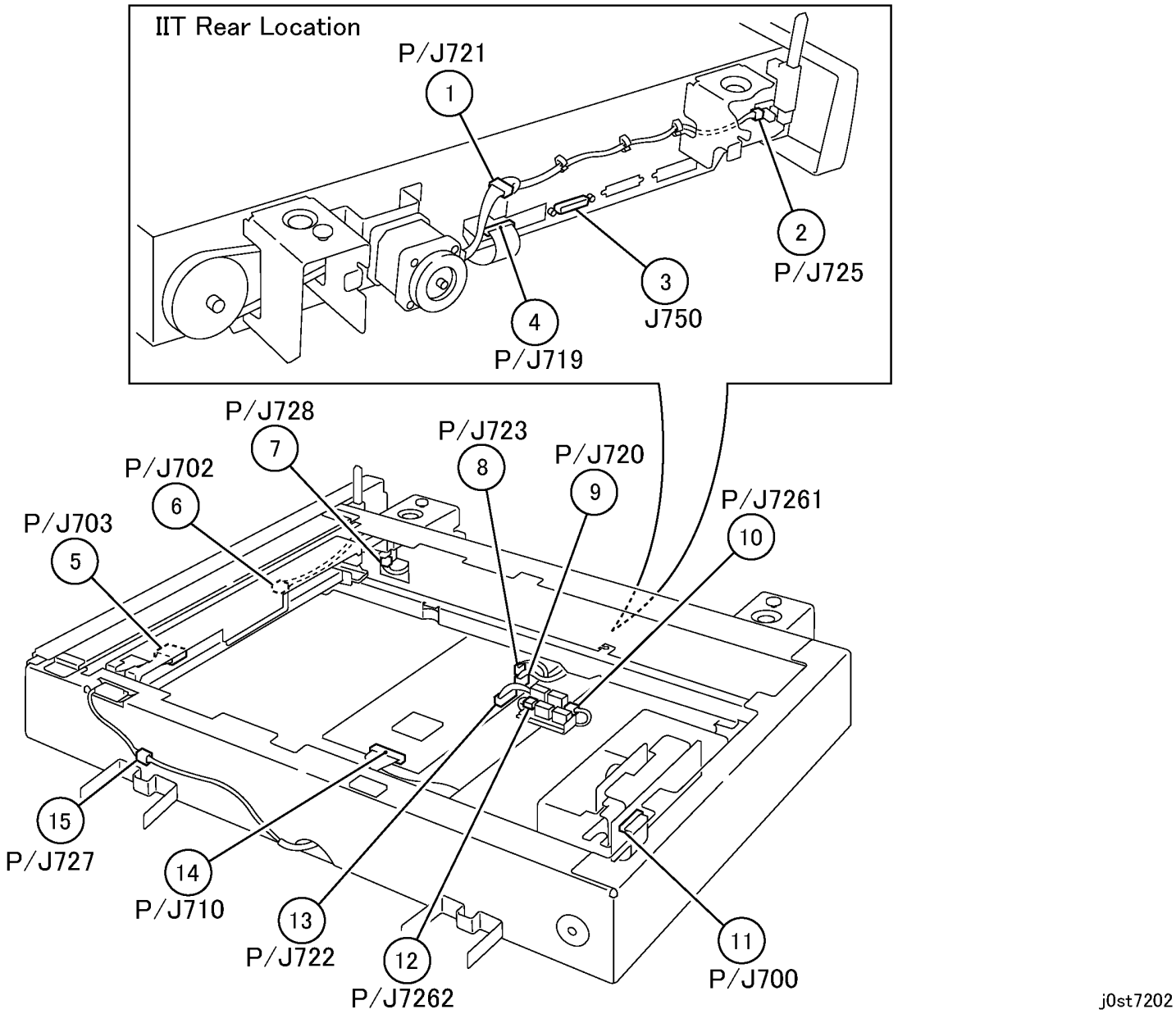


Figure 2 IIT (j0st7202)

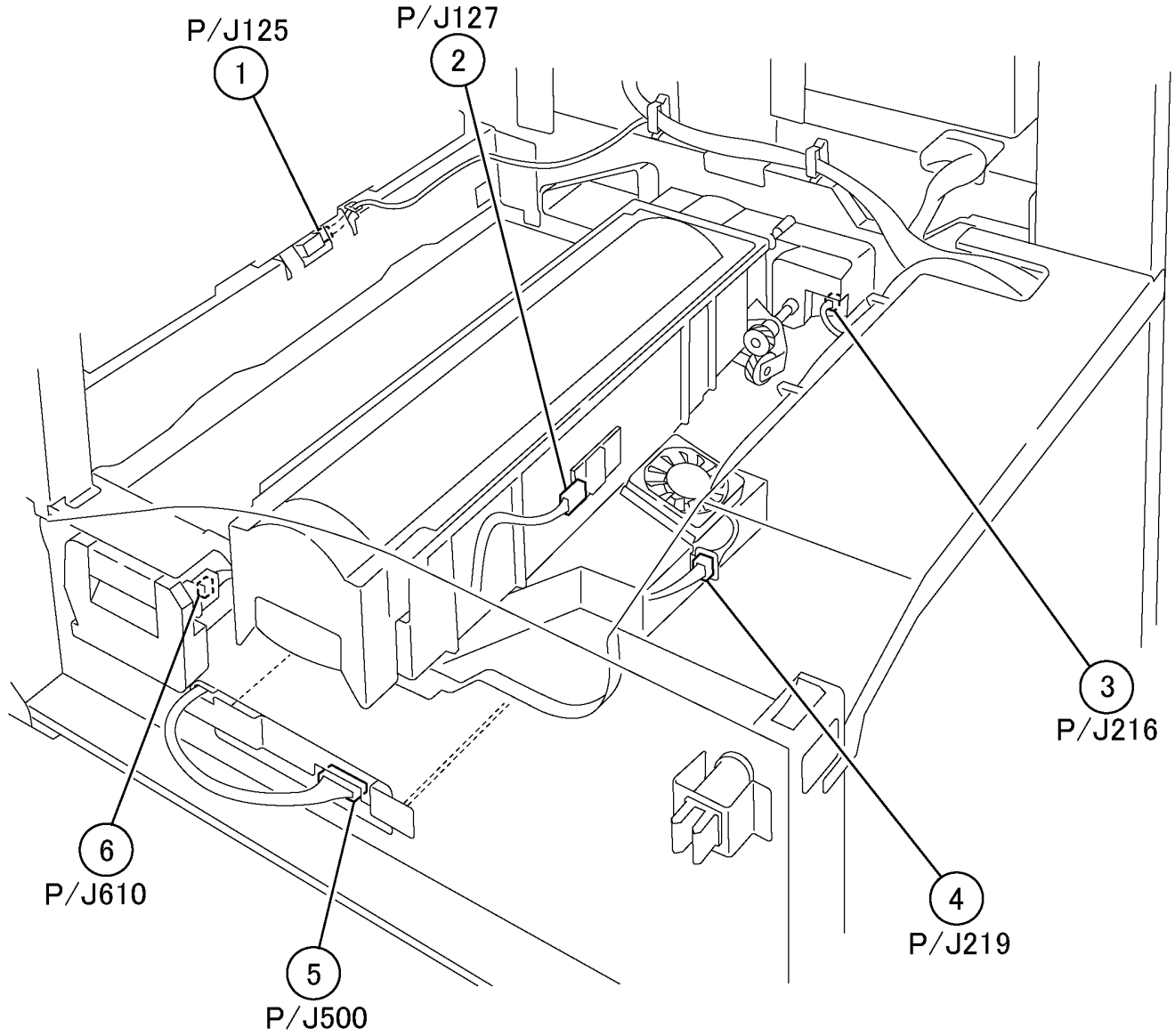


Figure 3 HVPS, Dispens Motor, Fuser Exit Sensor (j0st7203)

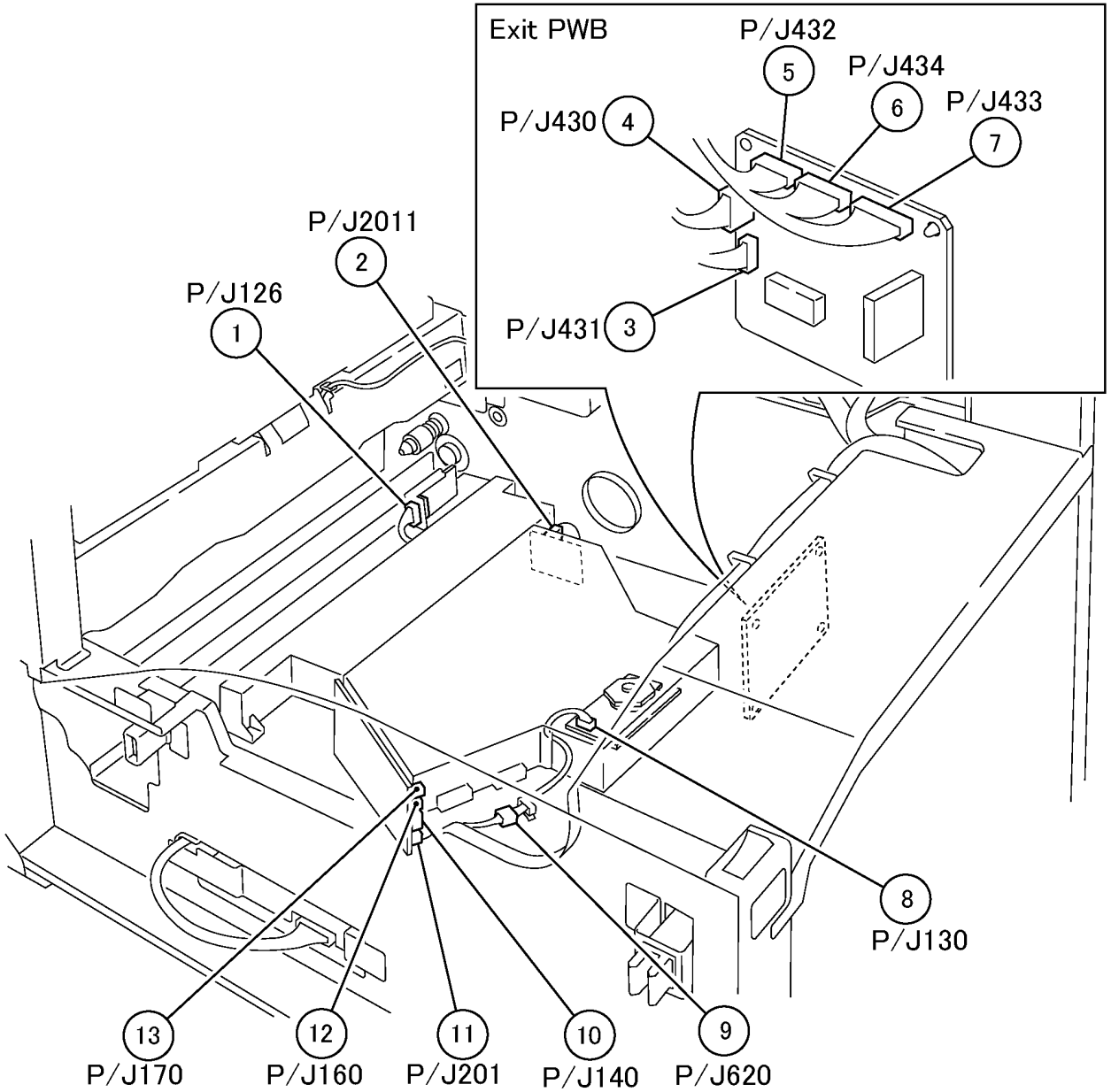


Figure 4 ROS Unit, Exit PWB (j0st7204)

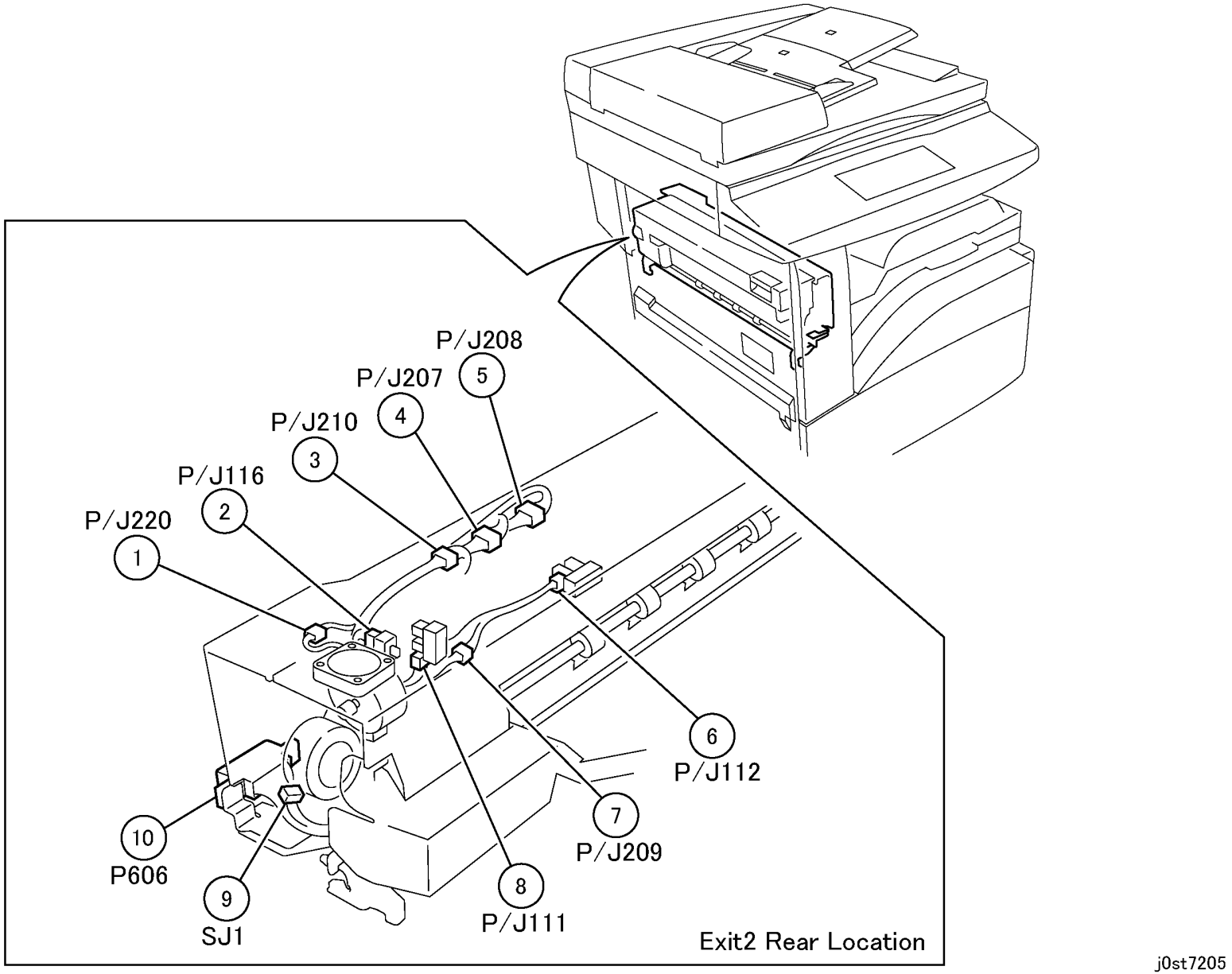


Figure 5 Exit 2 (j0st7205)

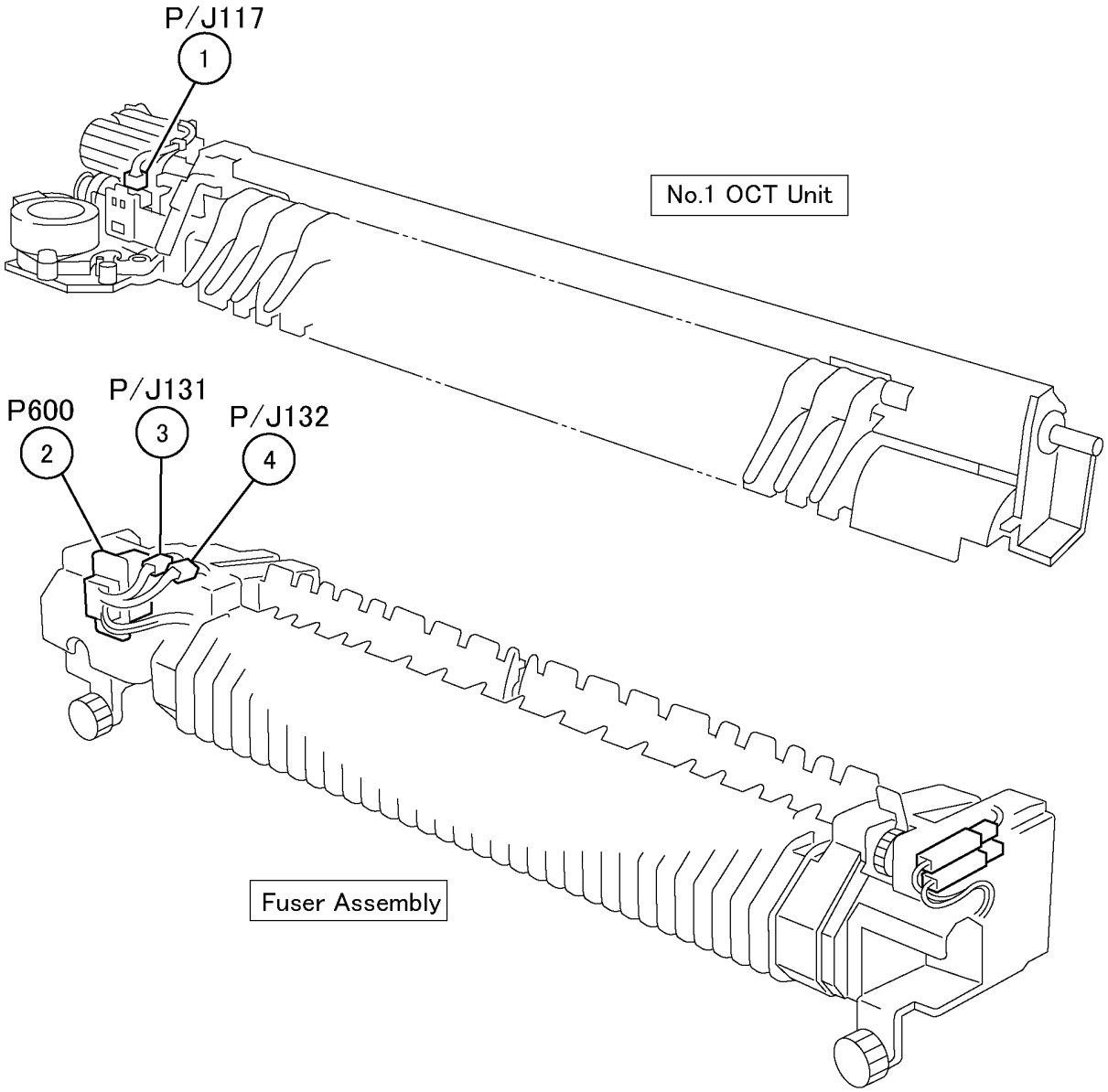


Figure 6 No.1 OCT, Fuser Assembly (j0st7206)

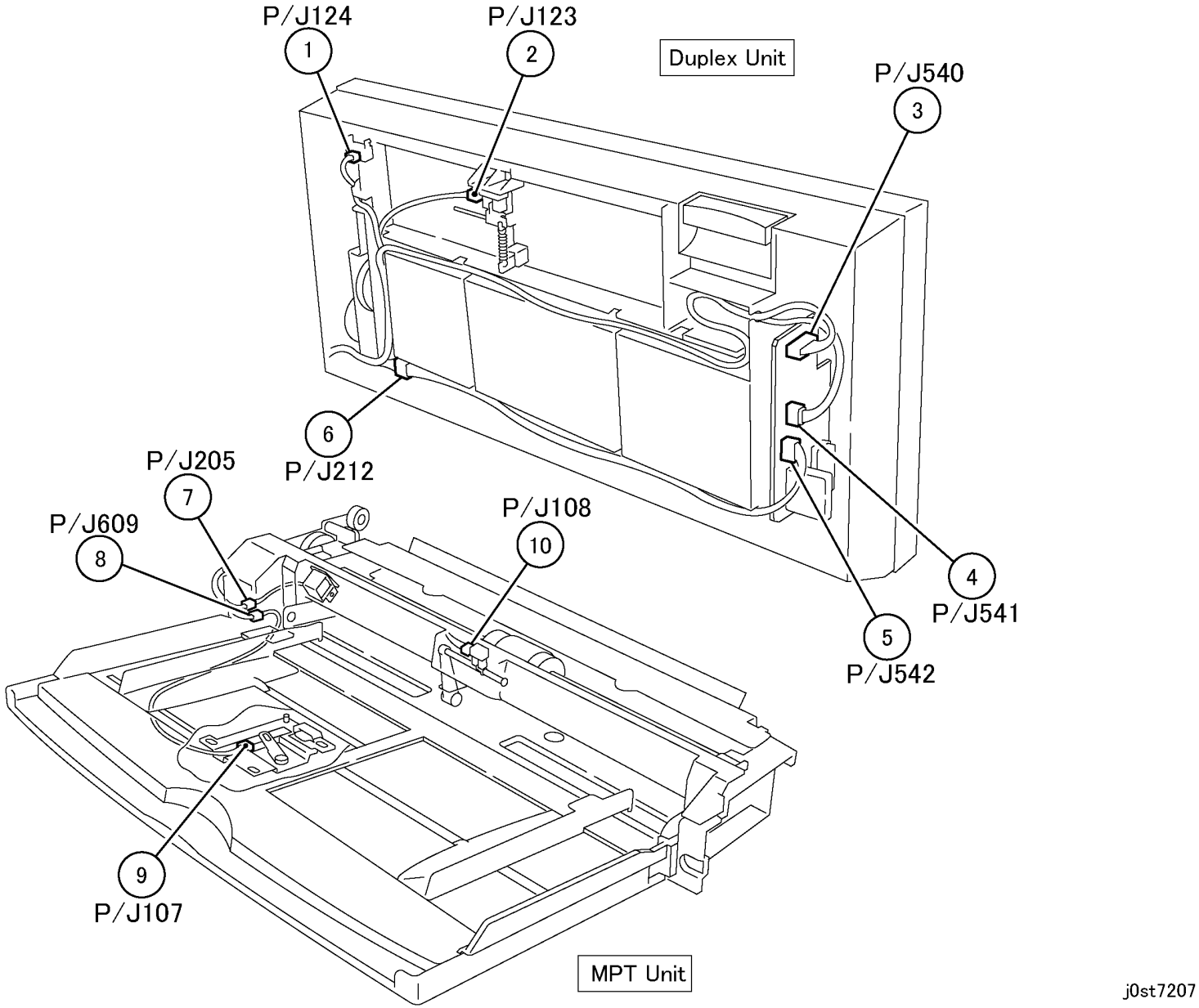


Figure 7 Duplex Unit, MPT (j0st7207)

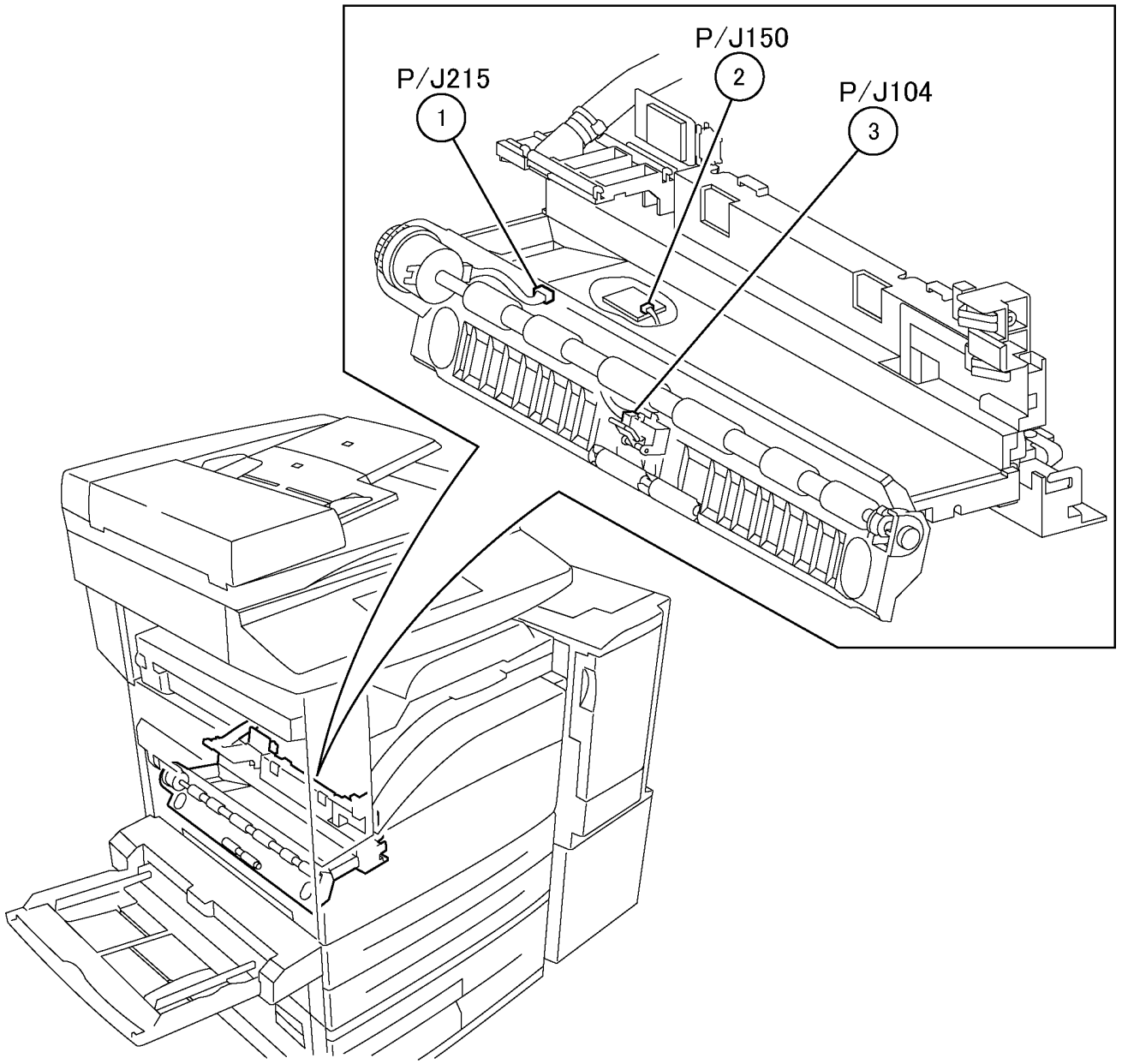


Figure 8 Regi. Sensor, Regi. Clutch (j0st7208)

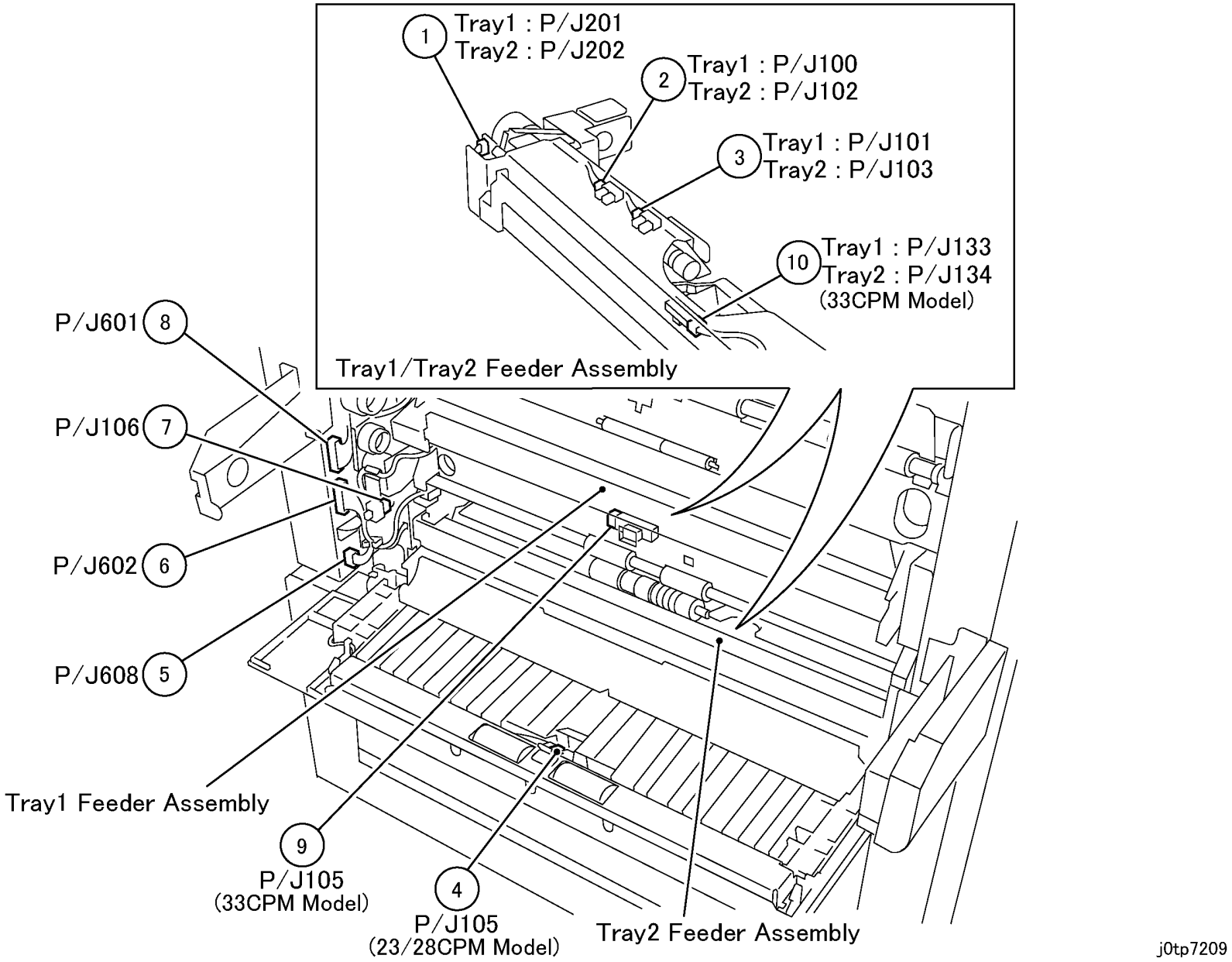


Figure 9 L/H Lower, Tray1/2 Feeder (j0tp7209)

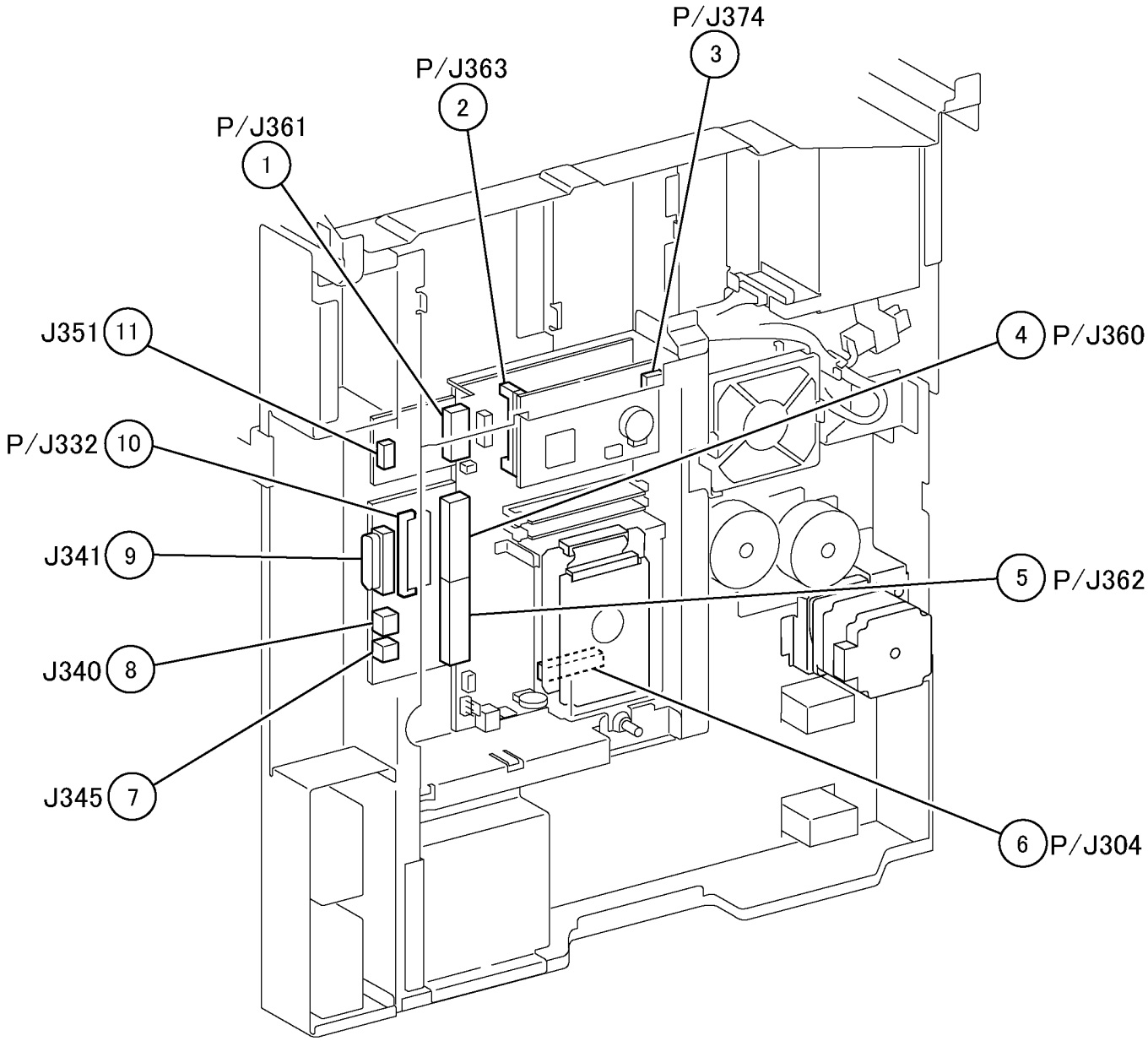


Figure 10 ESS 1 of 2 (j0tp7210)

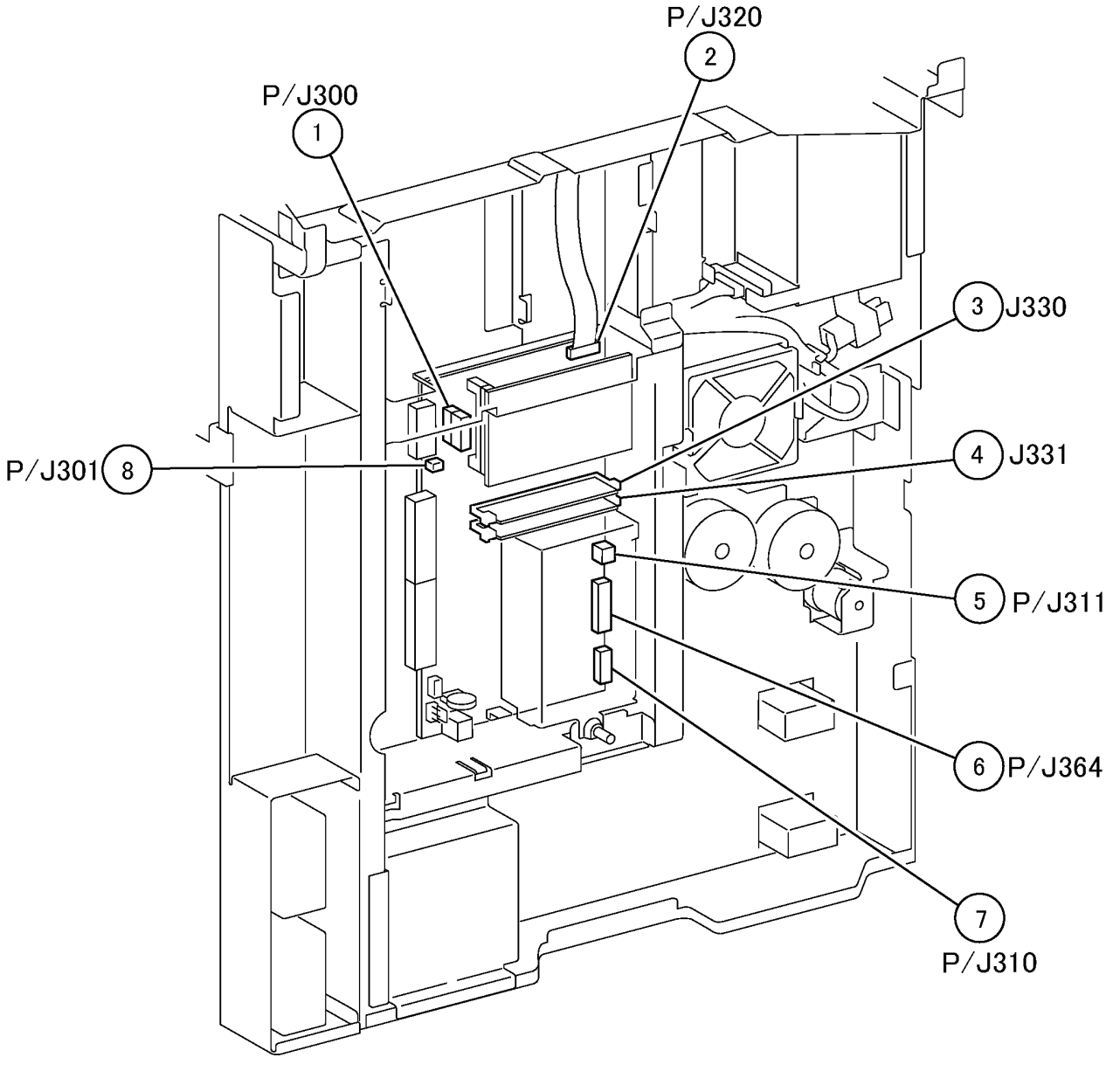
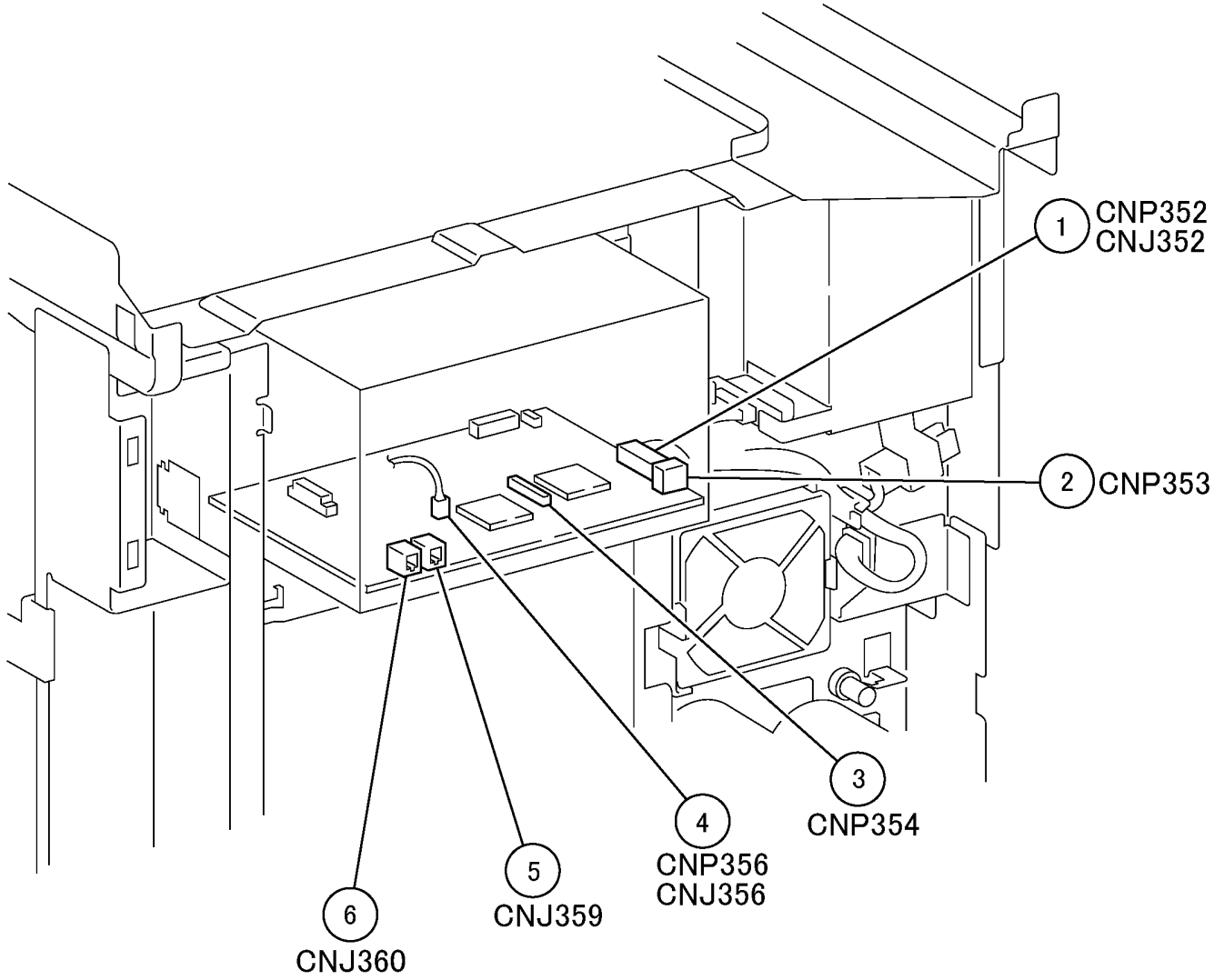


Figure 11 ESS 2 of 2 (j0st7211)



j0st7212

Figure 12 Fax Box Assembly (j0st7212)

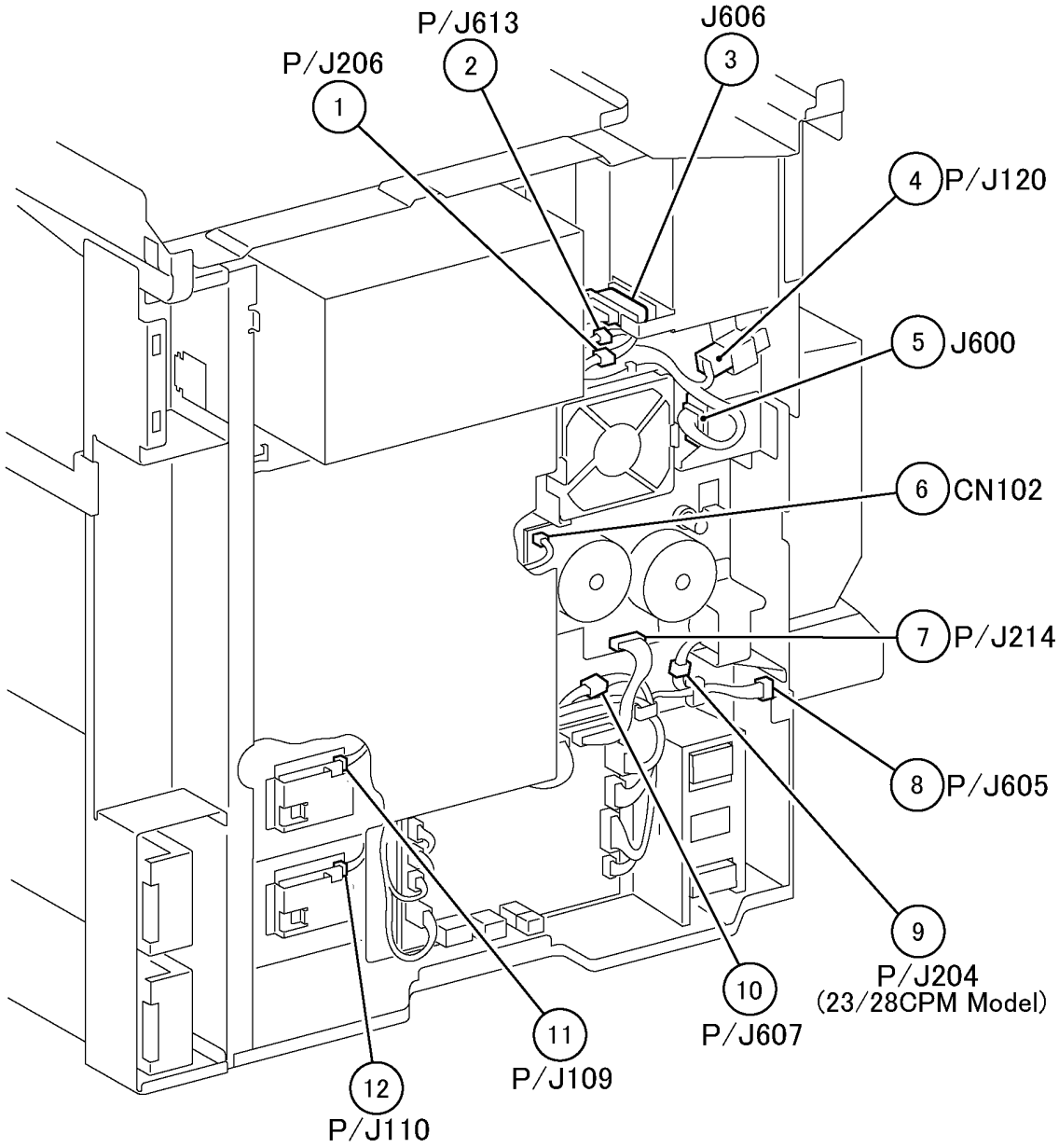
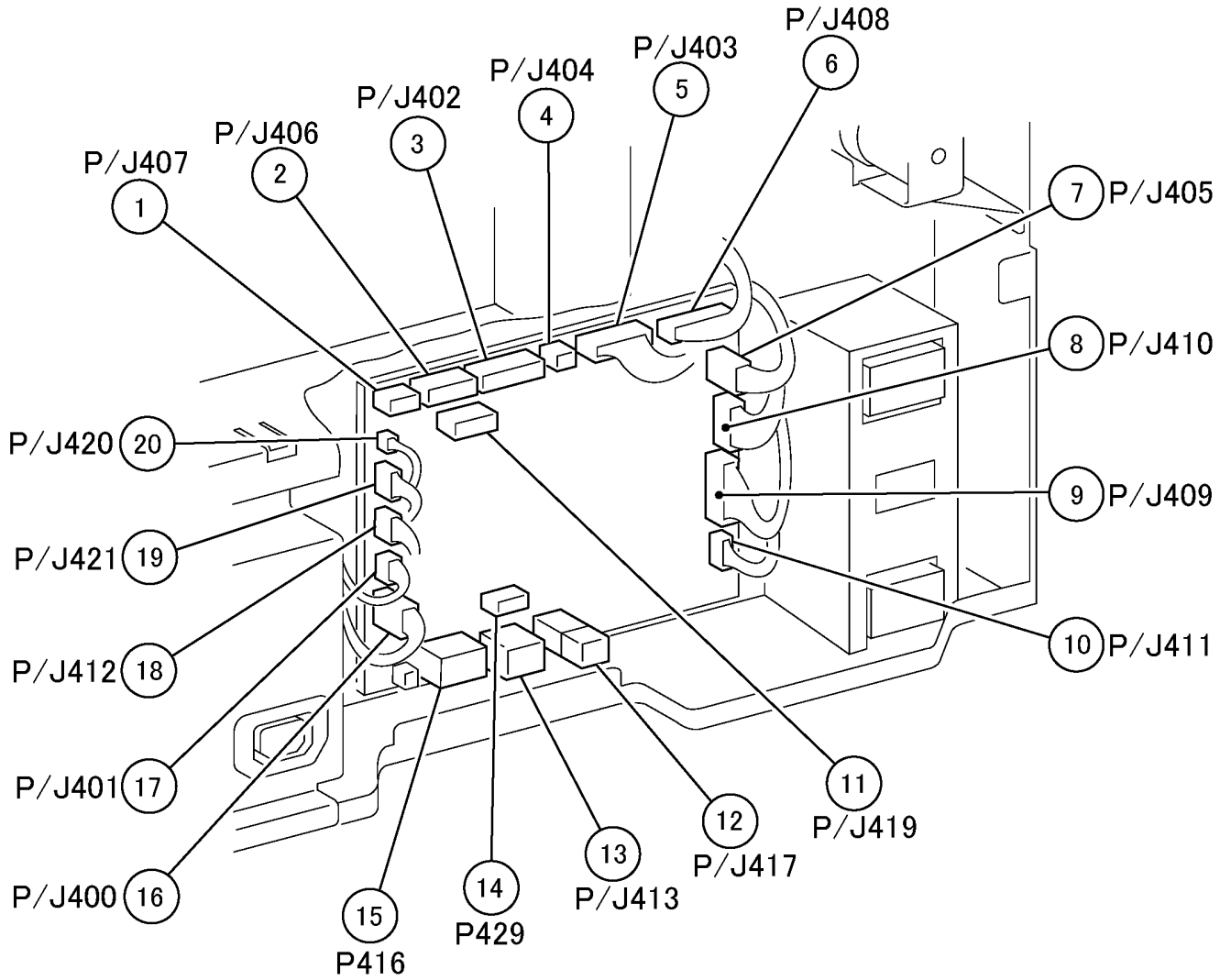


Figure 13 IOT Rear Location (j0tp7213)



j0st7214

Figure 14 MCU PWB (23/28CPM Model) (j0st7214)

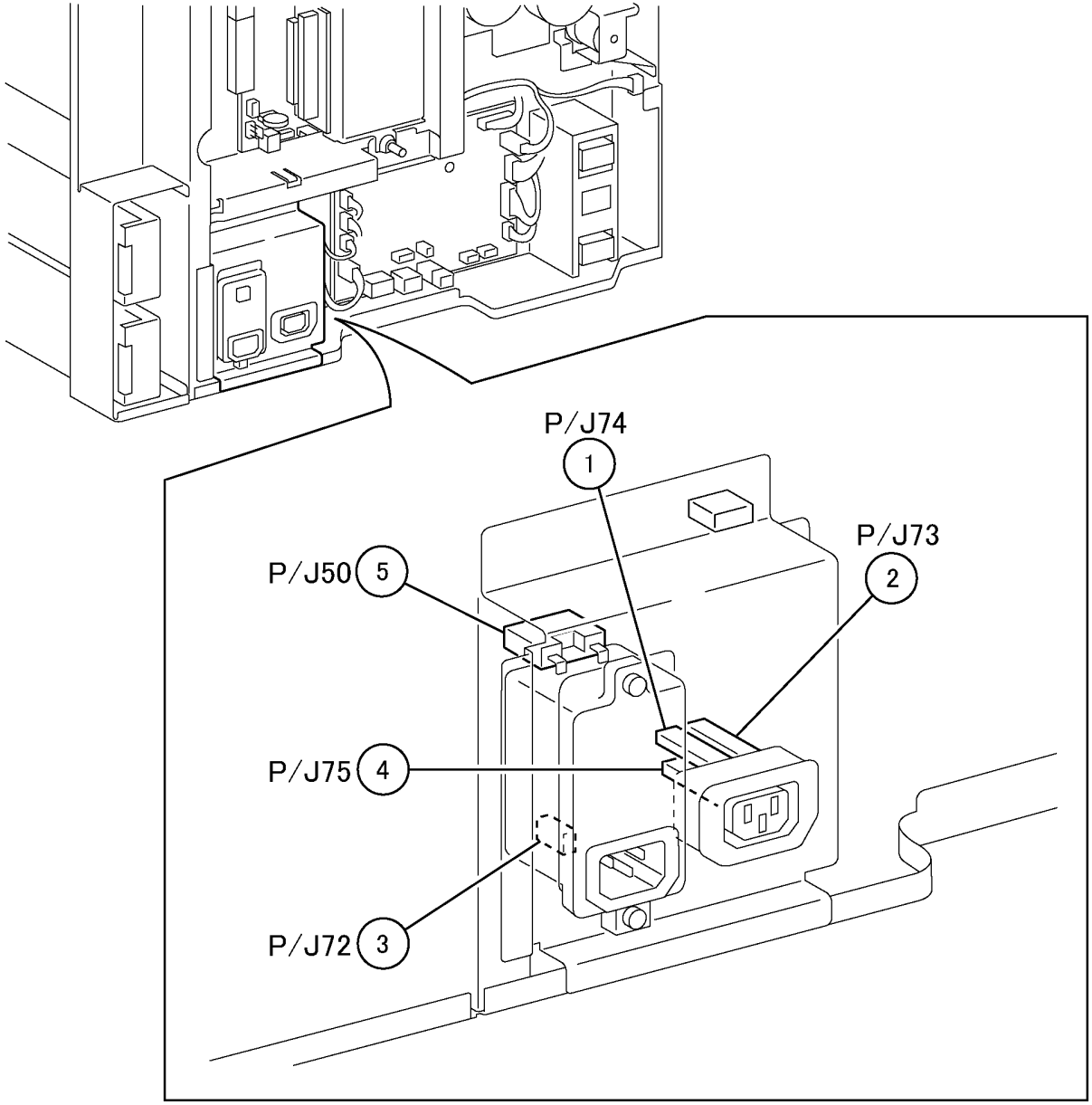


Figure 15 Power Unit (j0st7215)

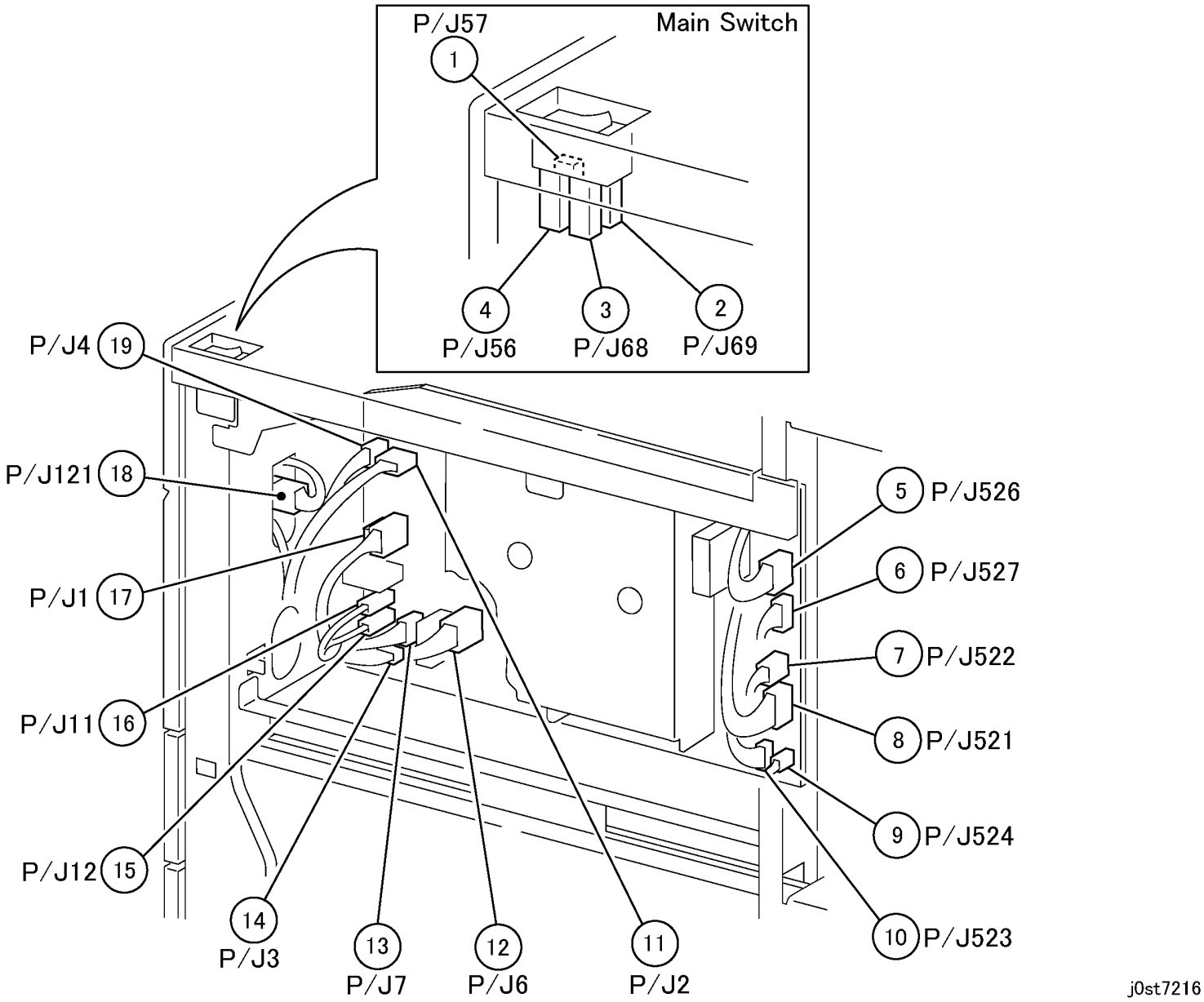


Figure 16 LVPS, Main Switch (j0st7216)

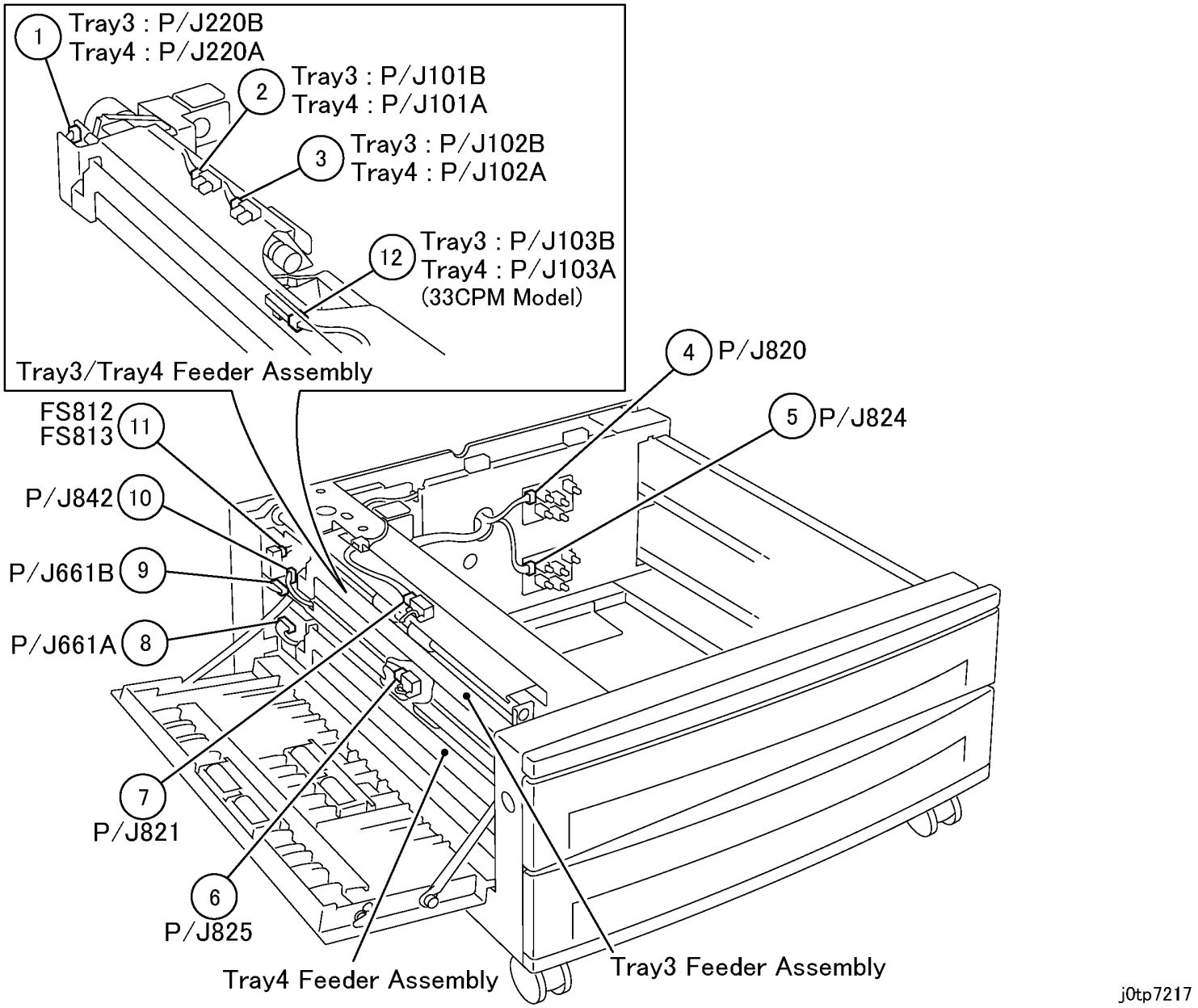


Figure 17 Tray 3/4 Feeder (2TM) (j0tp7217)

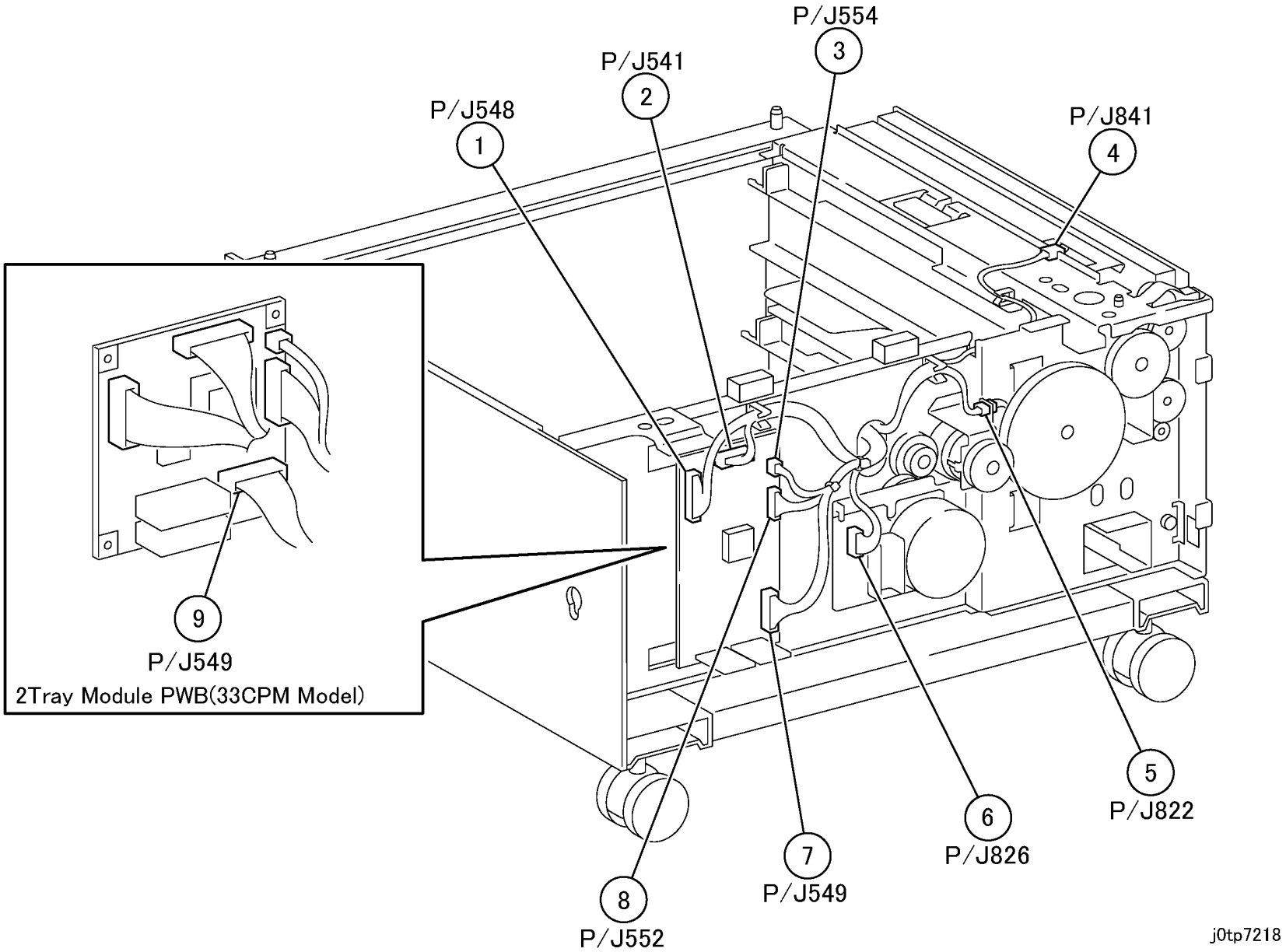


Figure 18 2TM Rear Location (j0tp7218)

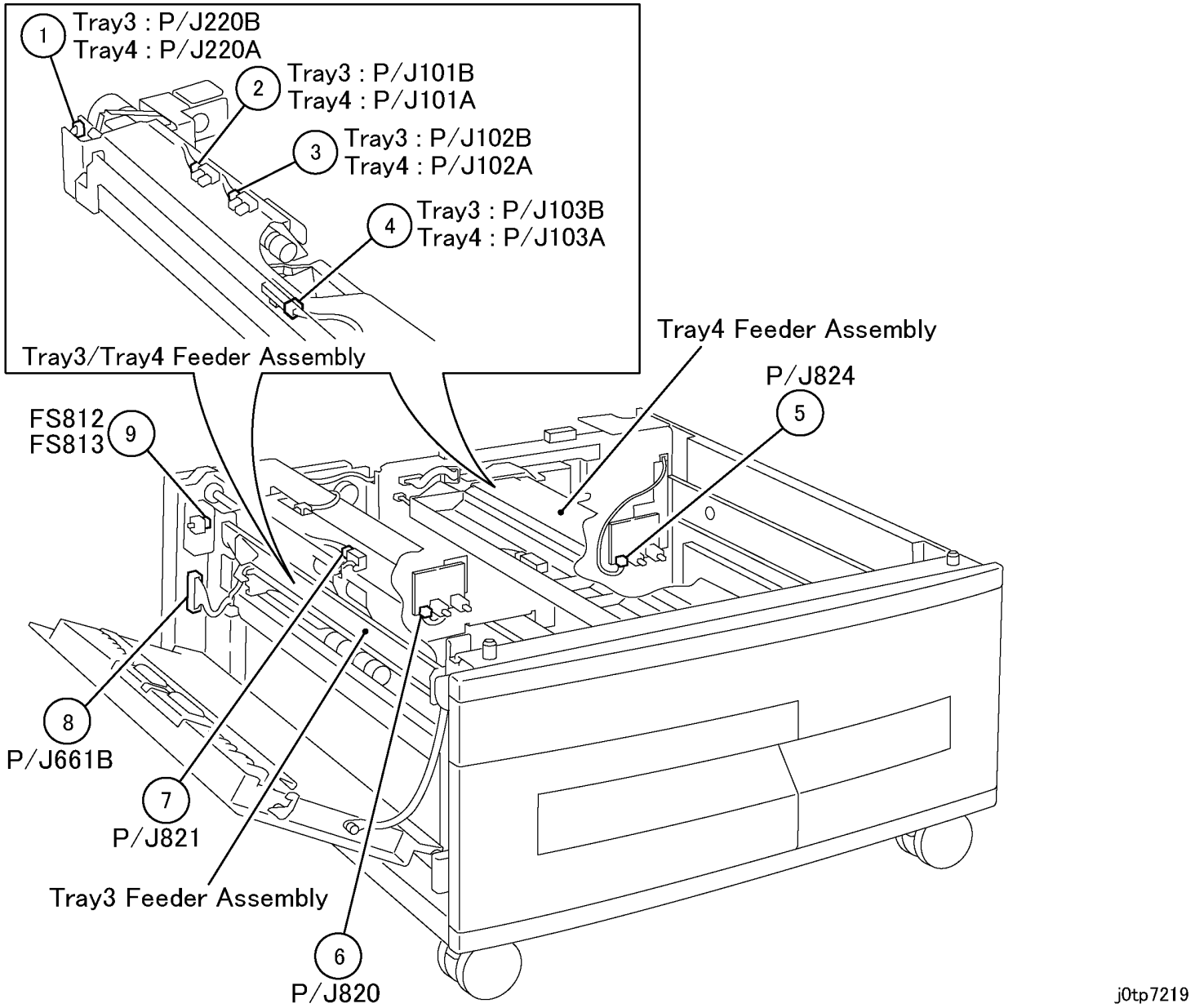


Figure 19 Tray 3/4 Feeder (TTM) (j0tp7219)

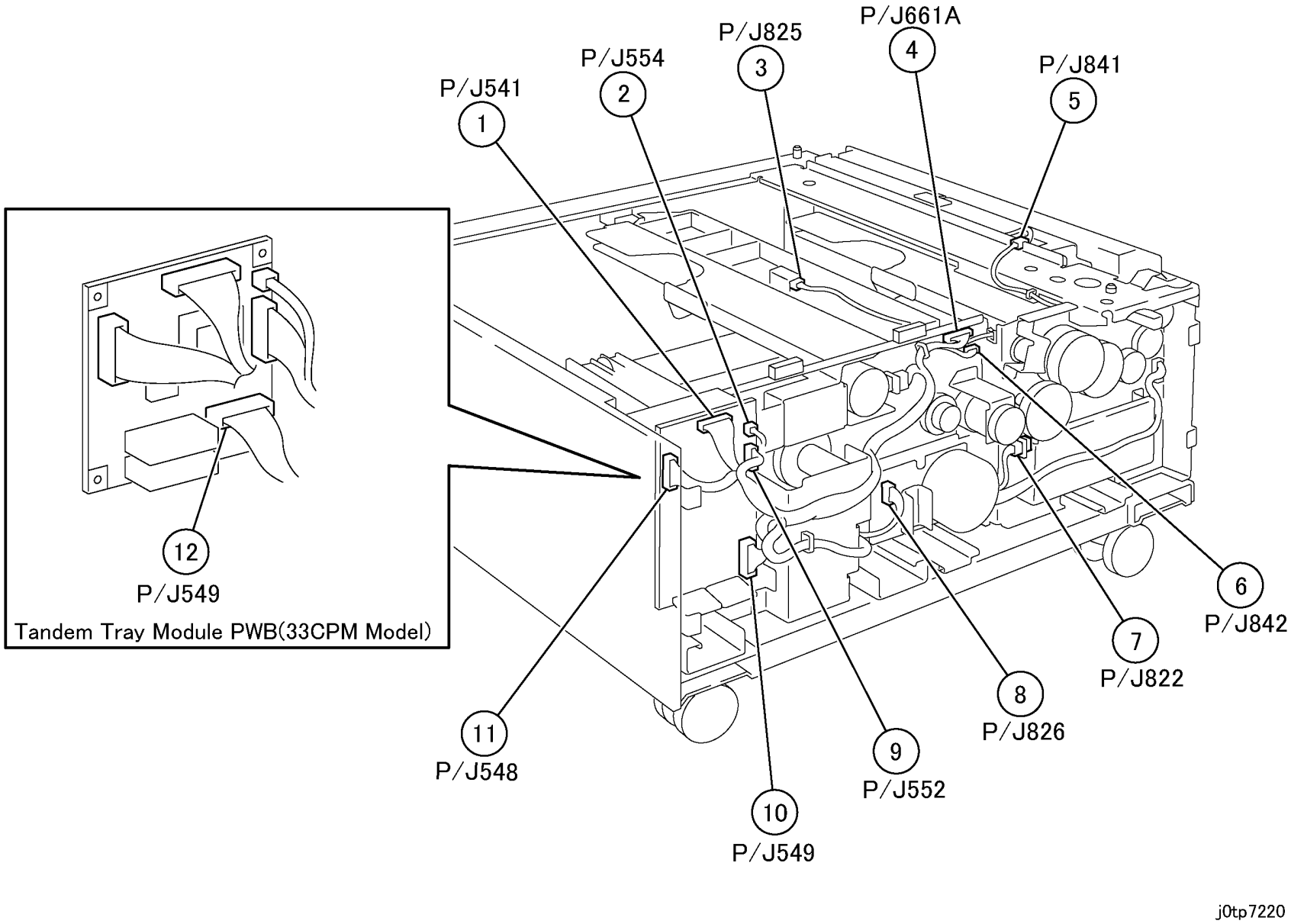


Figure 20 TTM Rear Location (j0tp7220)

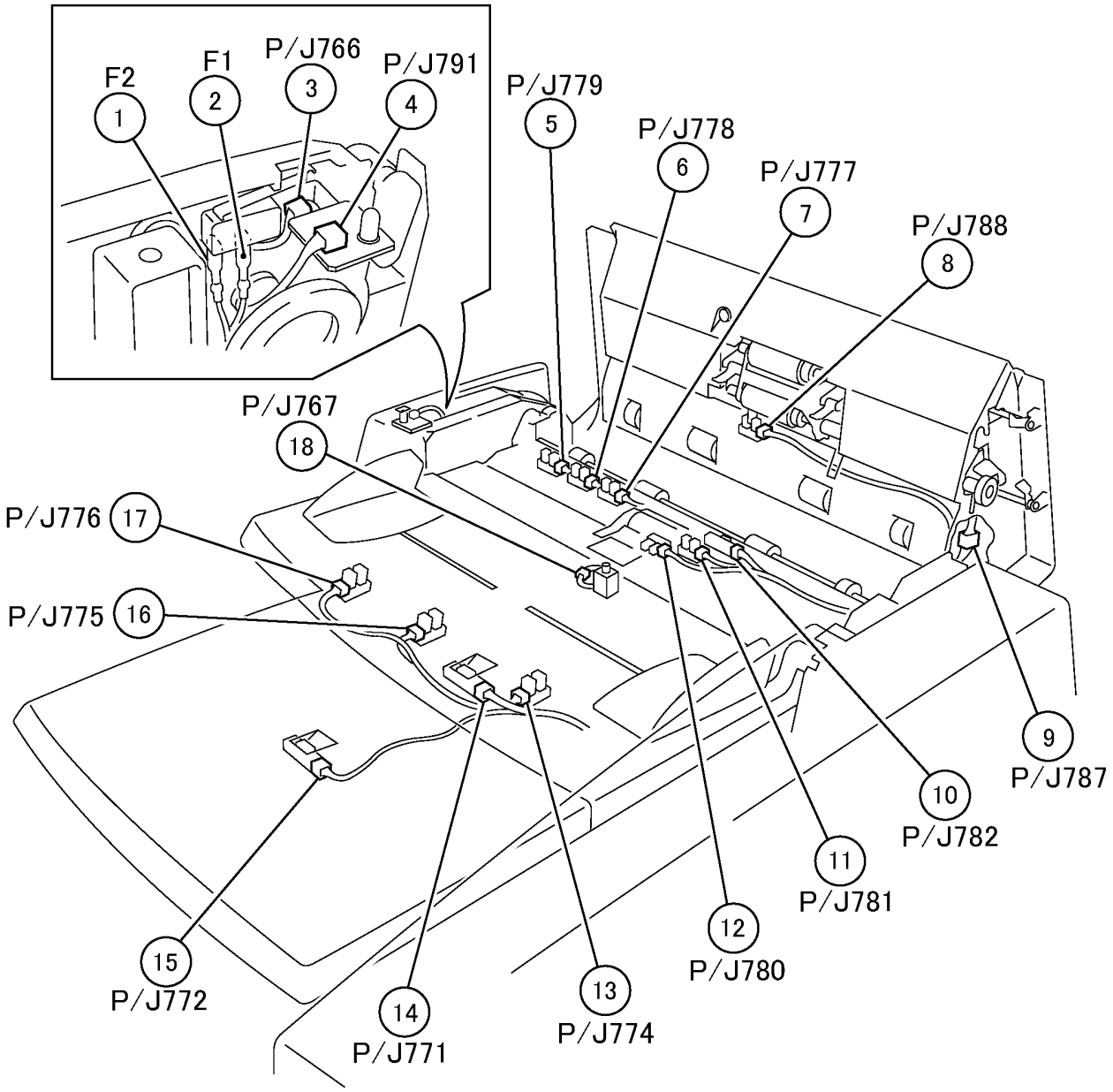


Figure 21 DADF 1 of 2 (j0st7221)

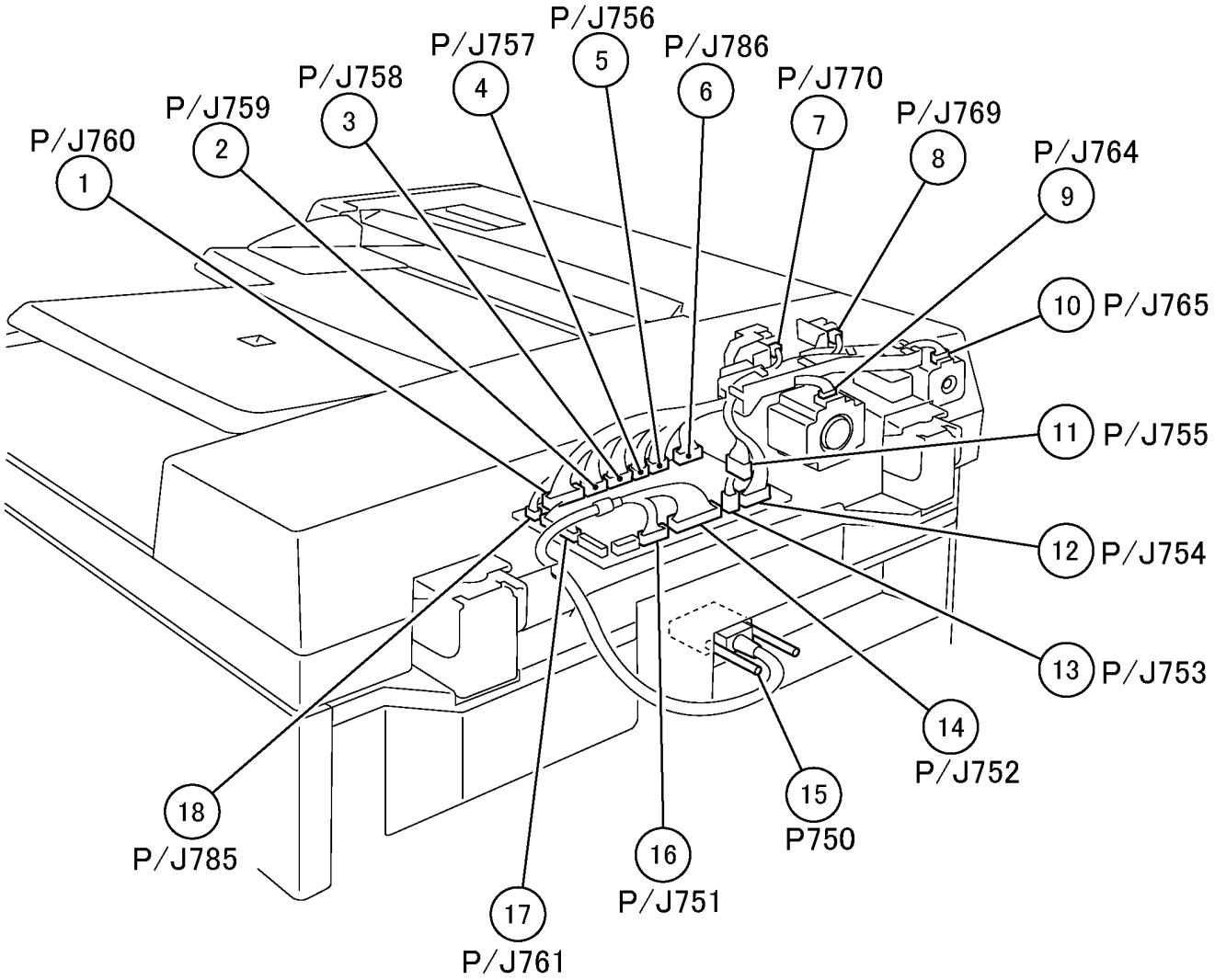
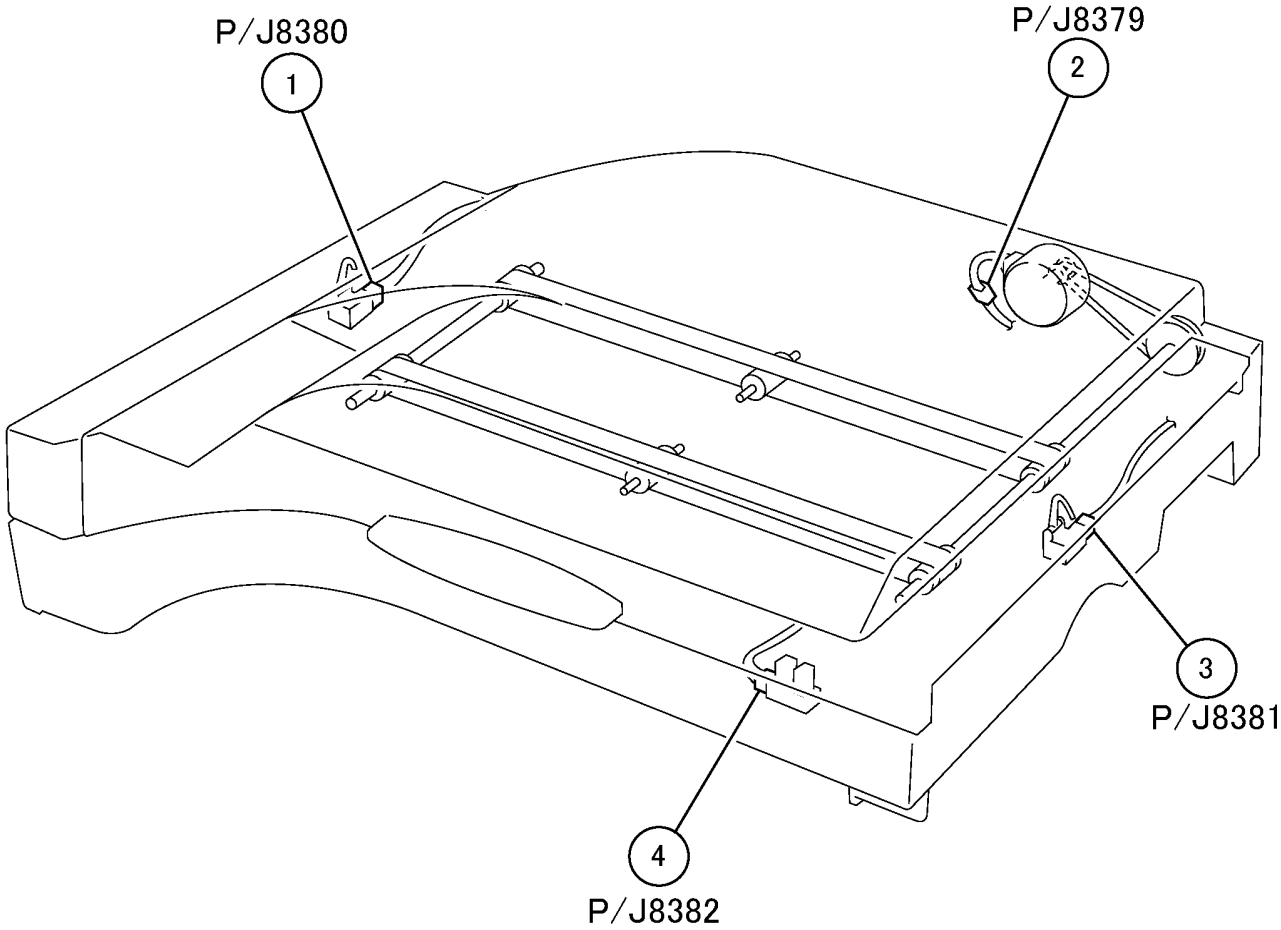


Figure 22 DADF 2 of 2 (j0st7222)



j0st7223

Figure 23 H-Transport Assembly (j0st7223)

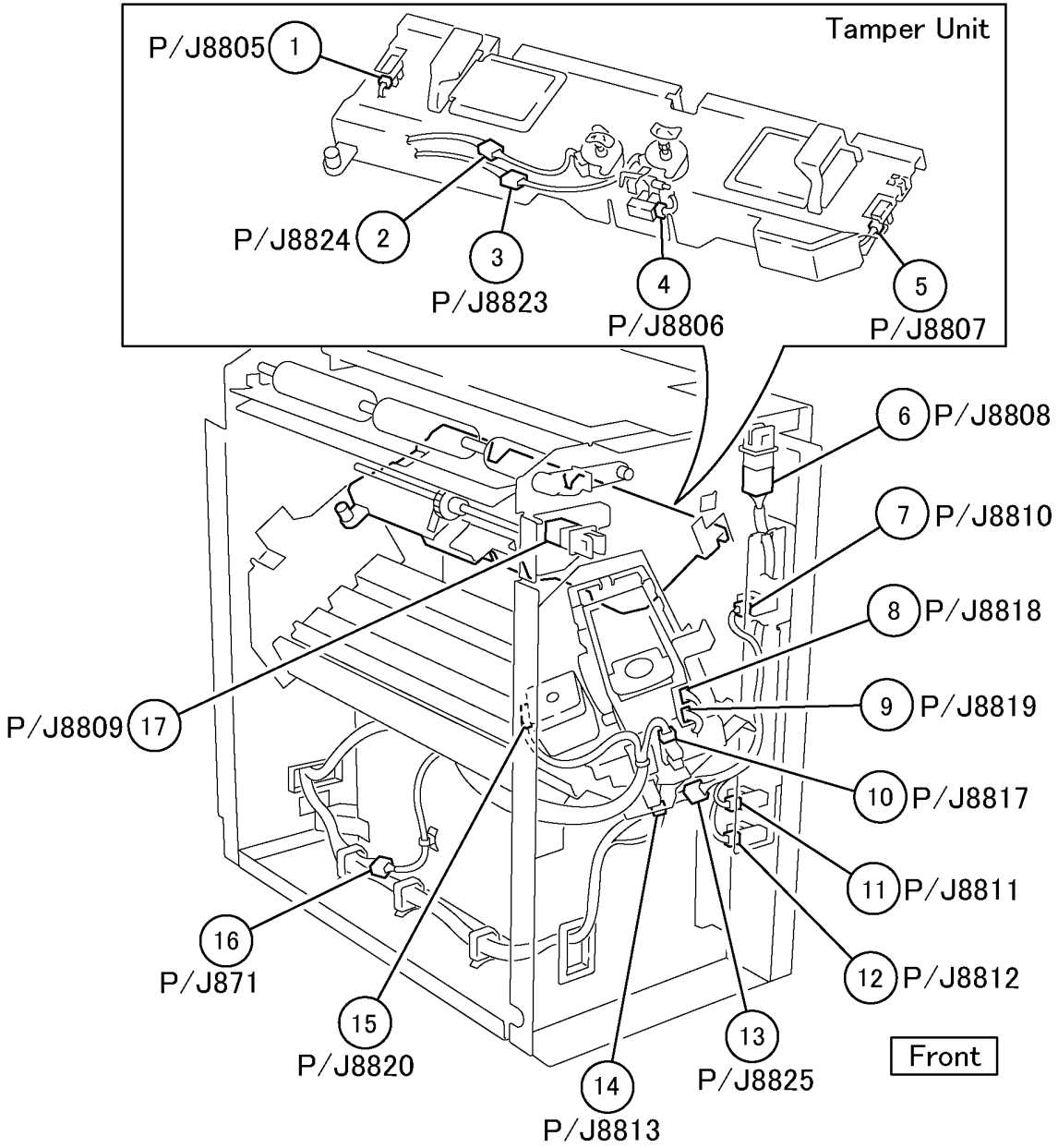


Figure 24 Finisher Front Location (j0st7224)

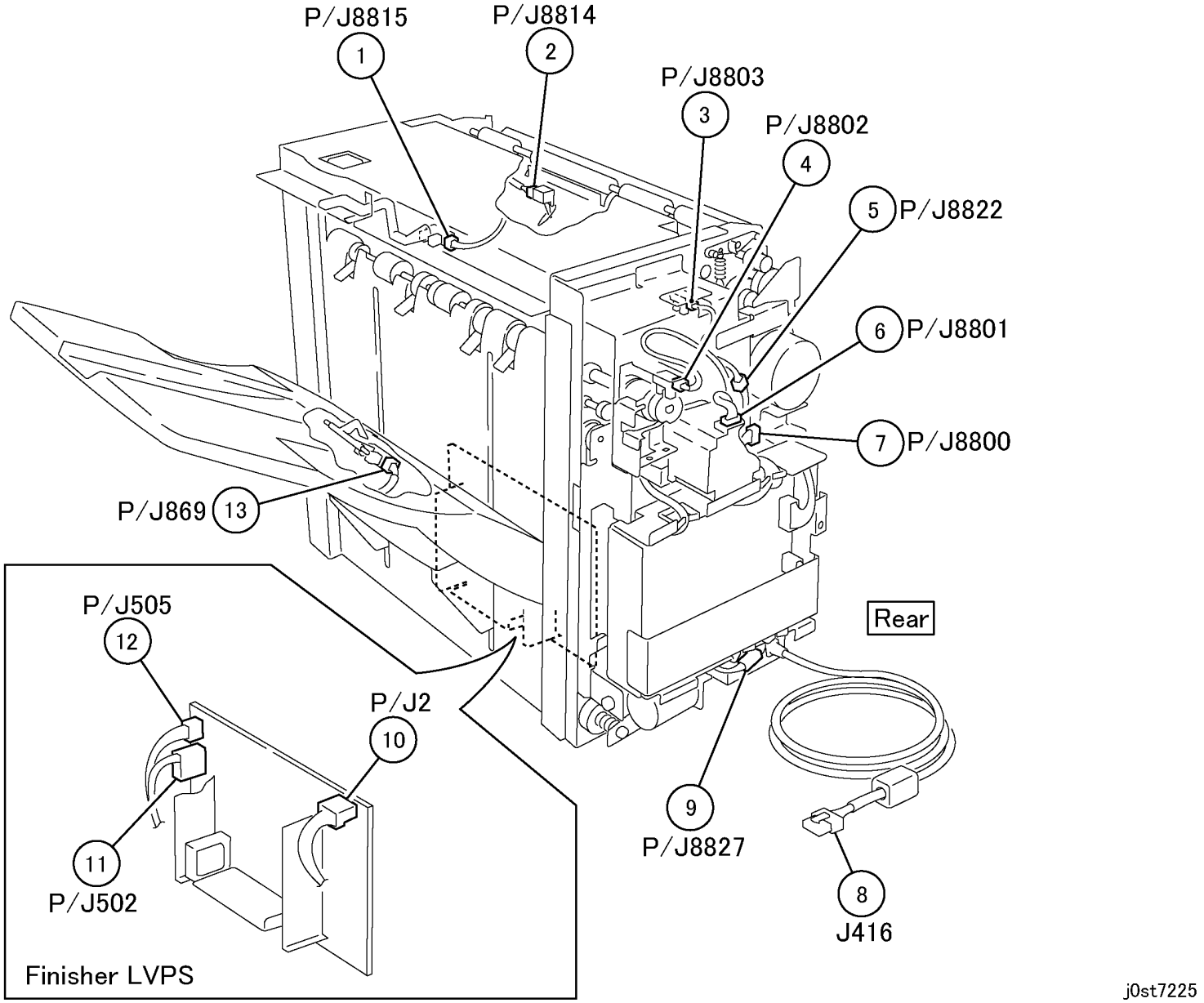


Figure 25 Finisher Rear Location (j0st7225)

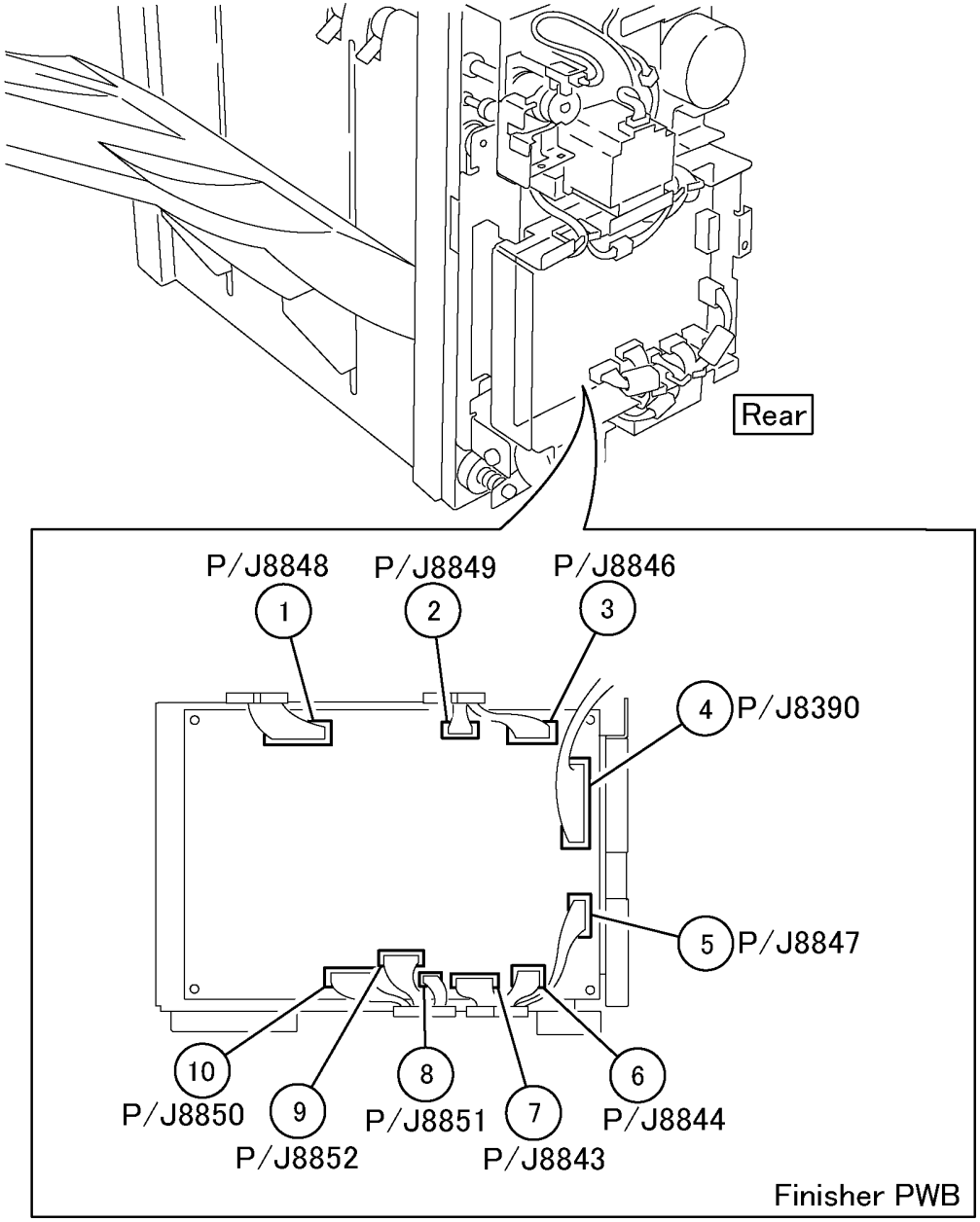


Figure 26 Finisher PWB (j0tp7226)

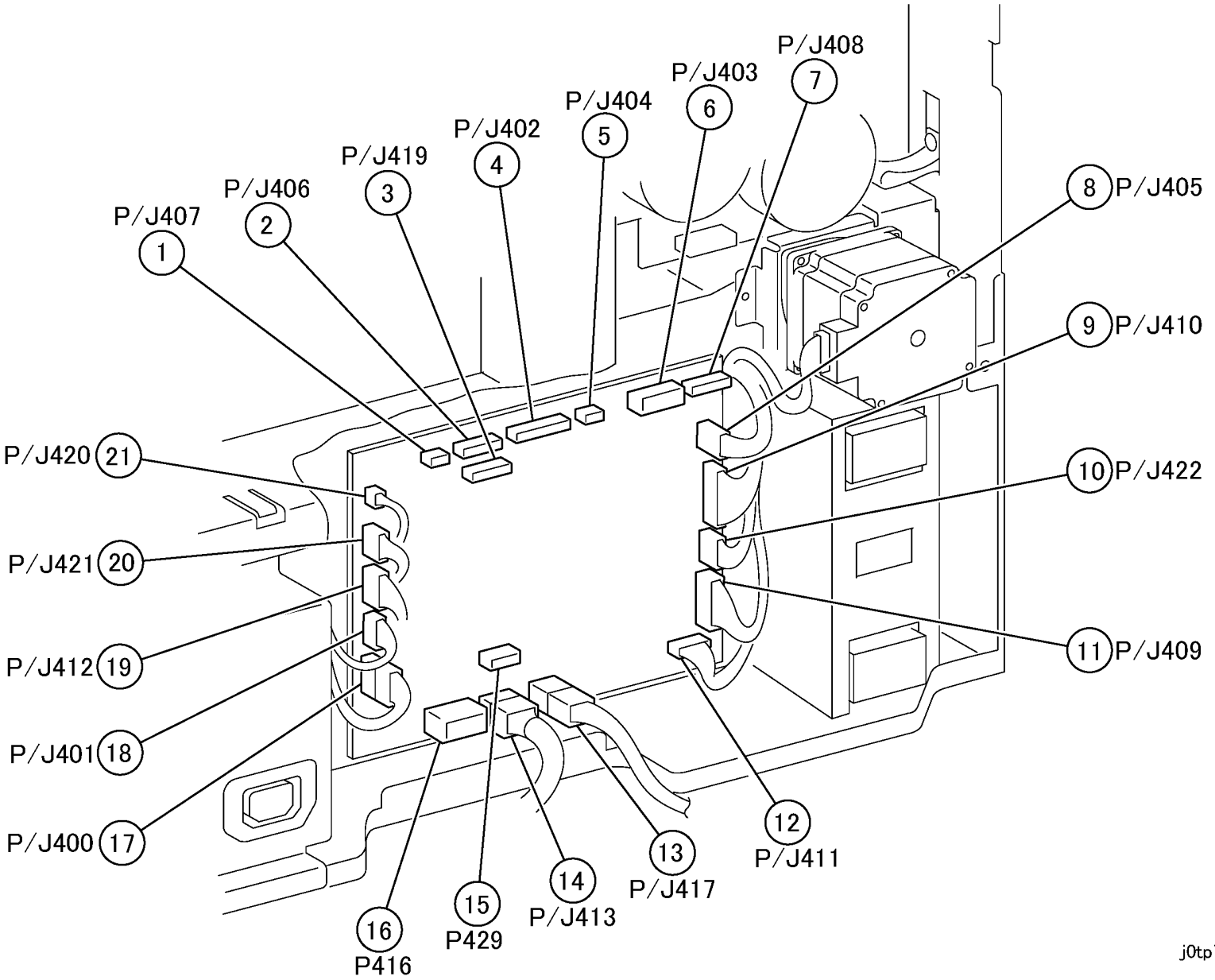
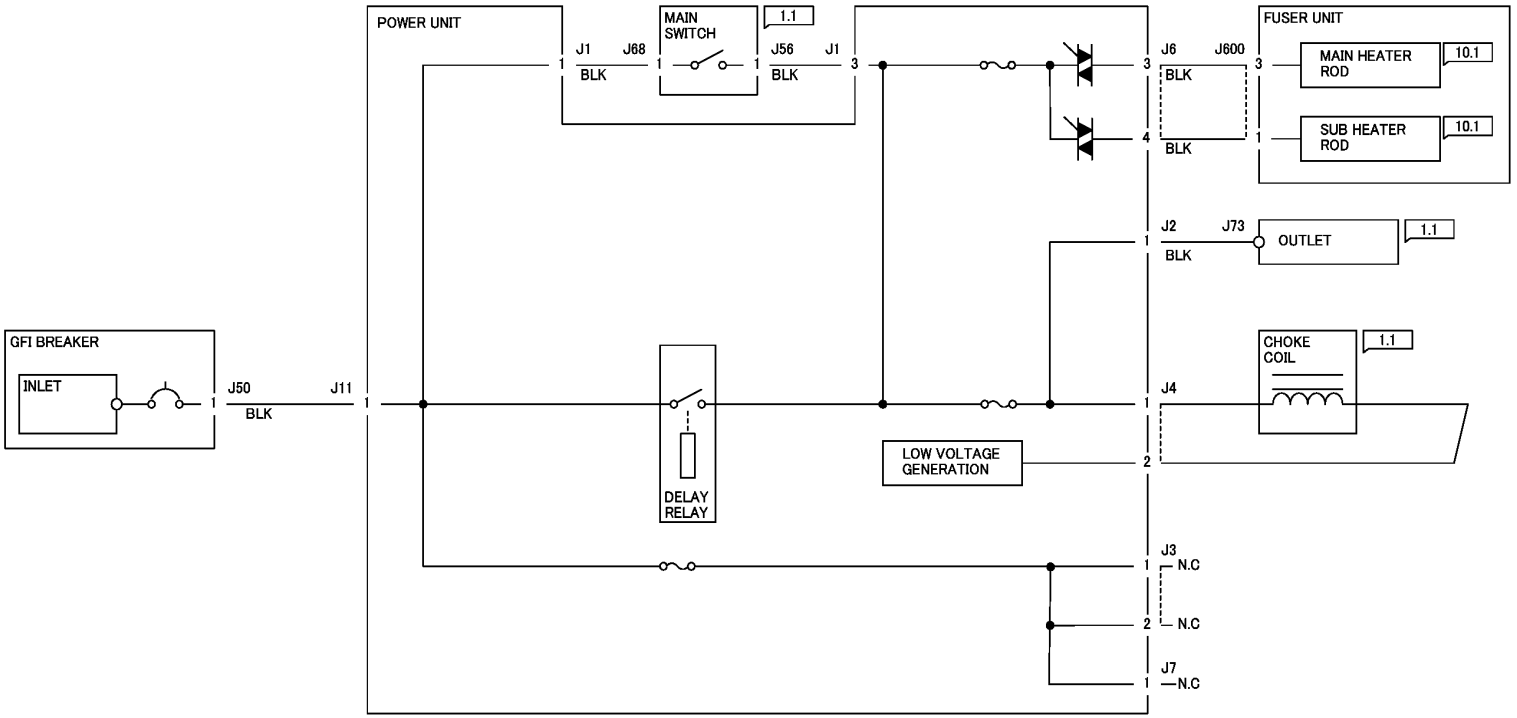


Figure 27 MCU PWB (33CPM Model) (j0tp7227)

7.3.1 Wire Net AC POWER (HOT)

7.3.1 WIRE NET AC POWER(HOT)

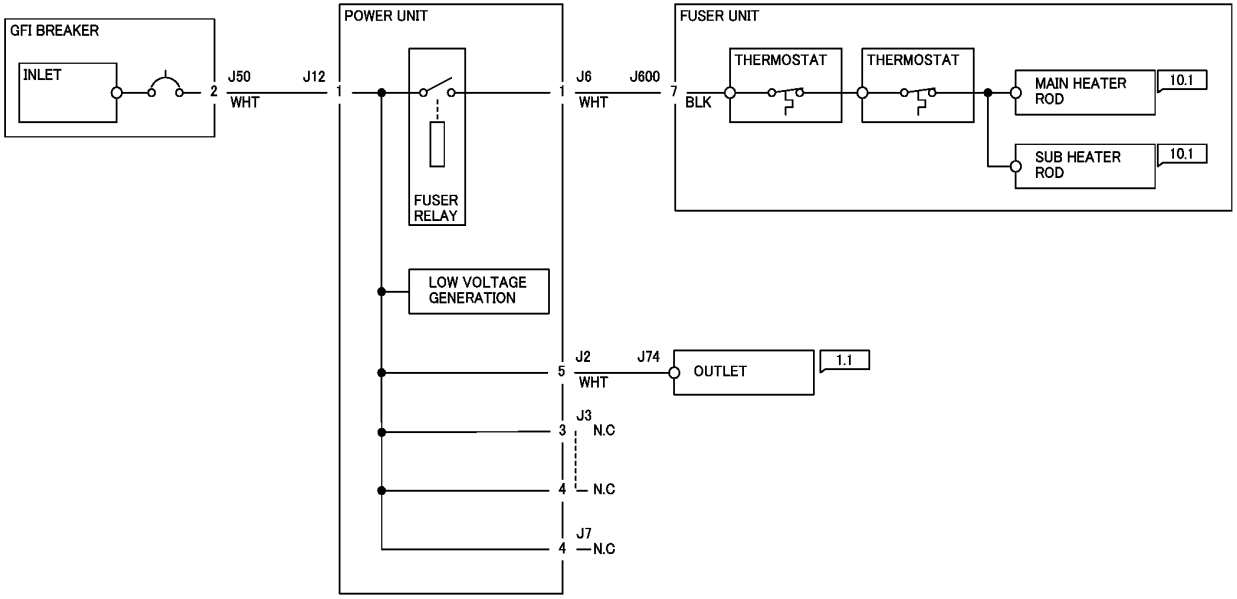


j0tp7301

Figure 1 Wire Net AC POWER(HOT) (j0tp7301)

7.3.2 Wire Net AC POWER (NUT)

7.3.2 WIRE NET AC POWER(NUT)

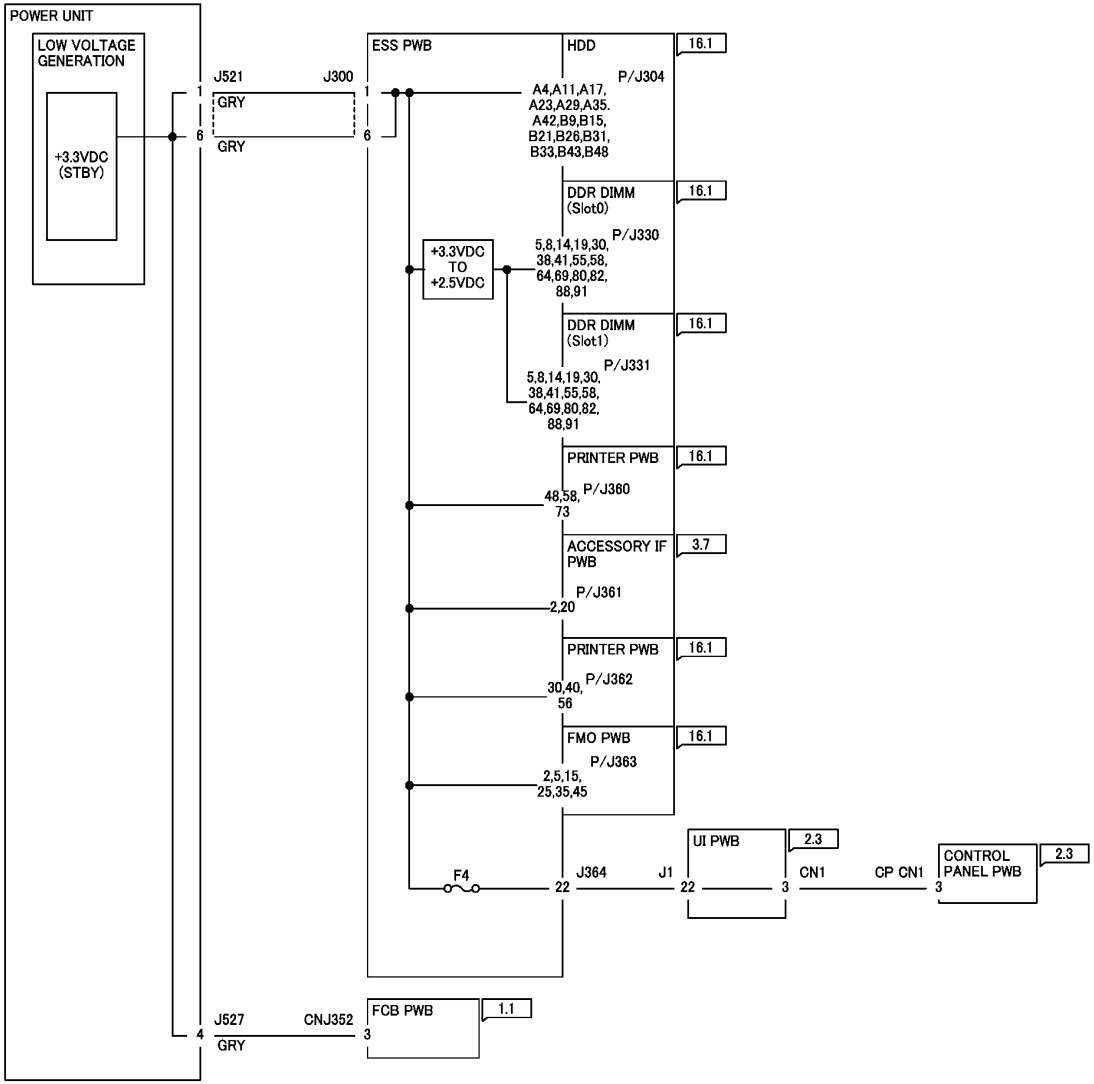


j0tp7302

Figure 1 Wire Net AC POWER(NUT) (j0tp7302)

7.3.3 Wire Net +3.3VDC-1

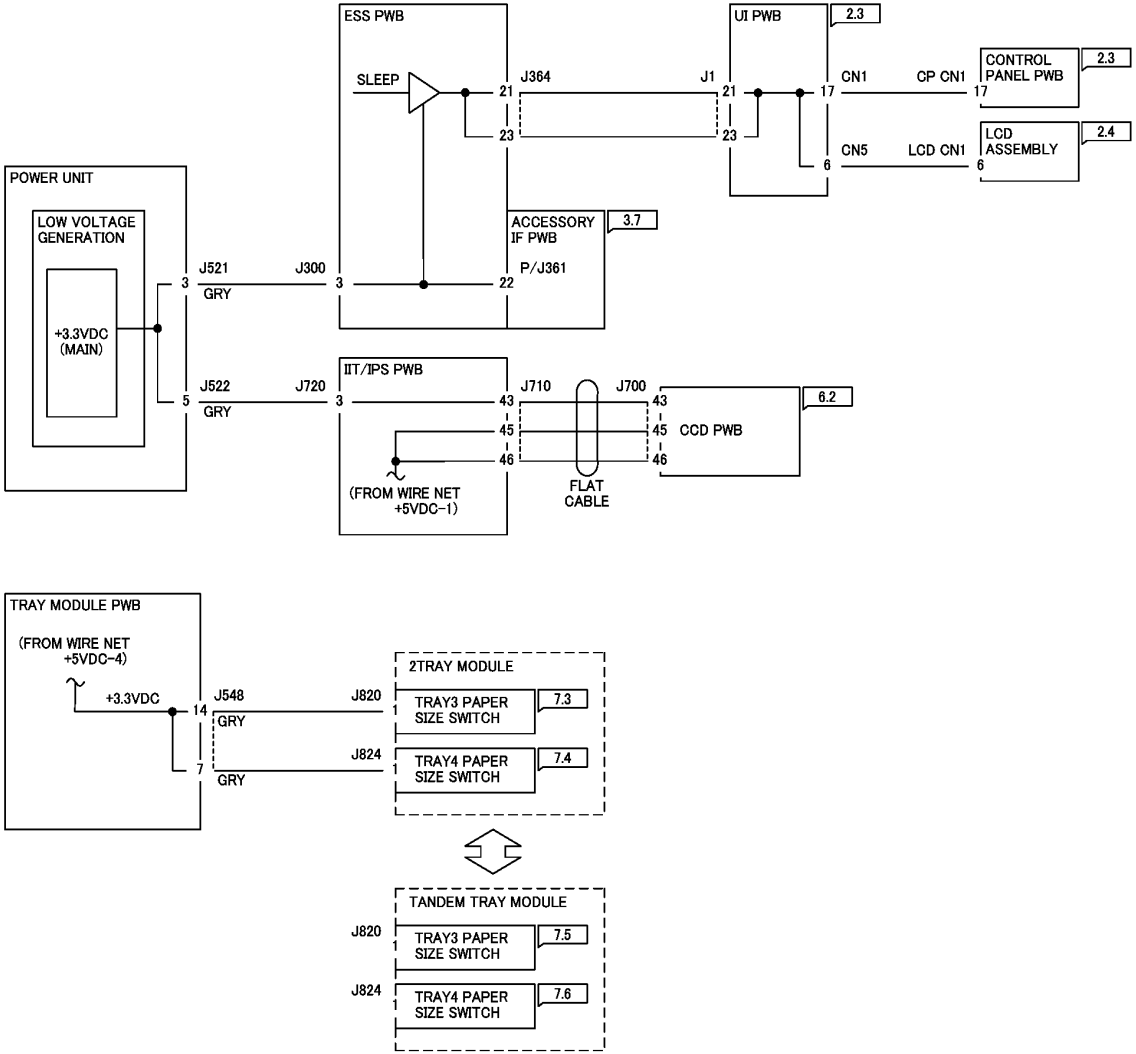
7.3.3 WIRE NET +3.3VDC-1



j0tp7303

Figure 1 Wire Net +3.3VDC-1 (j0tp7303)

7.3.4 WIRE NET +3.3VDC-2

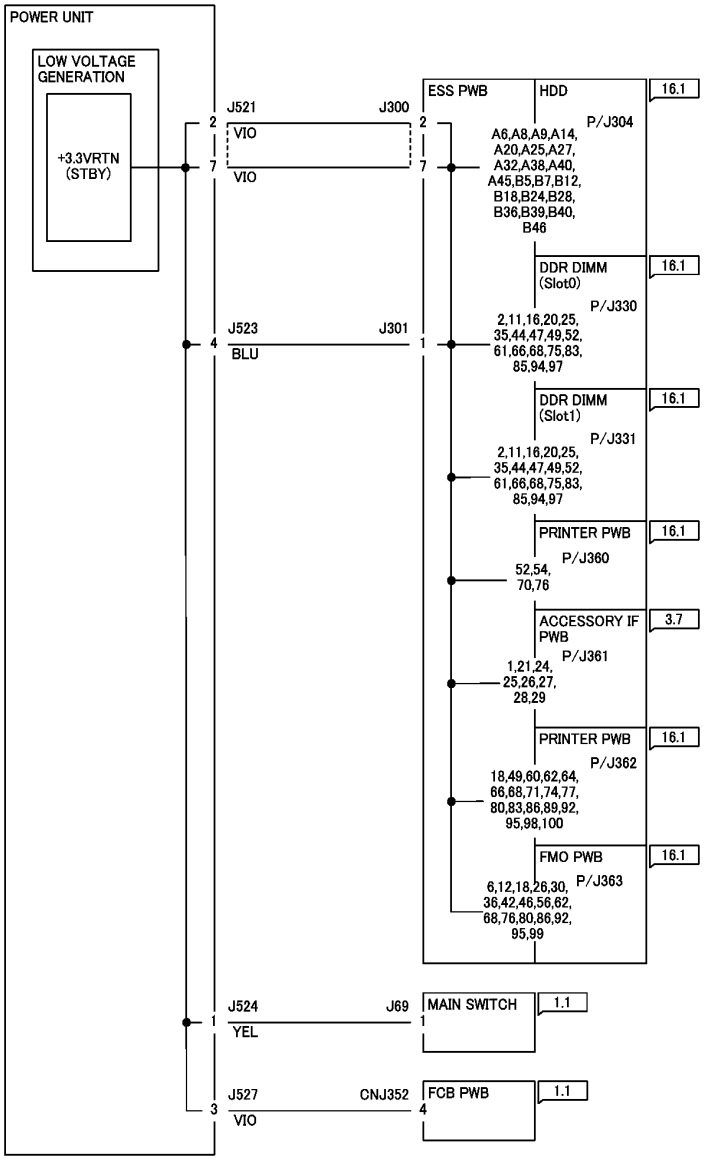


j0tp7304

Figure 1 Wire Net +3.3VDC-2 (j0tp7304)

7.3.5 Wire Net DC COM(+3.3VRTN)-1

7.3.5 WIRE NET DC COM(+3.3VRTN)-1



j0tp7305

Figure 1 Wire Net DC COM(+3.3VRTN)-1 (j0tp7305)

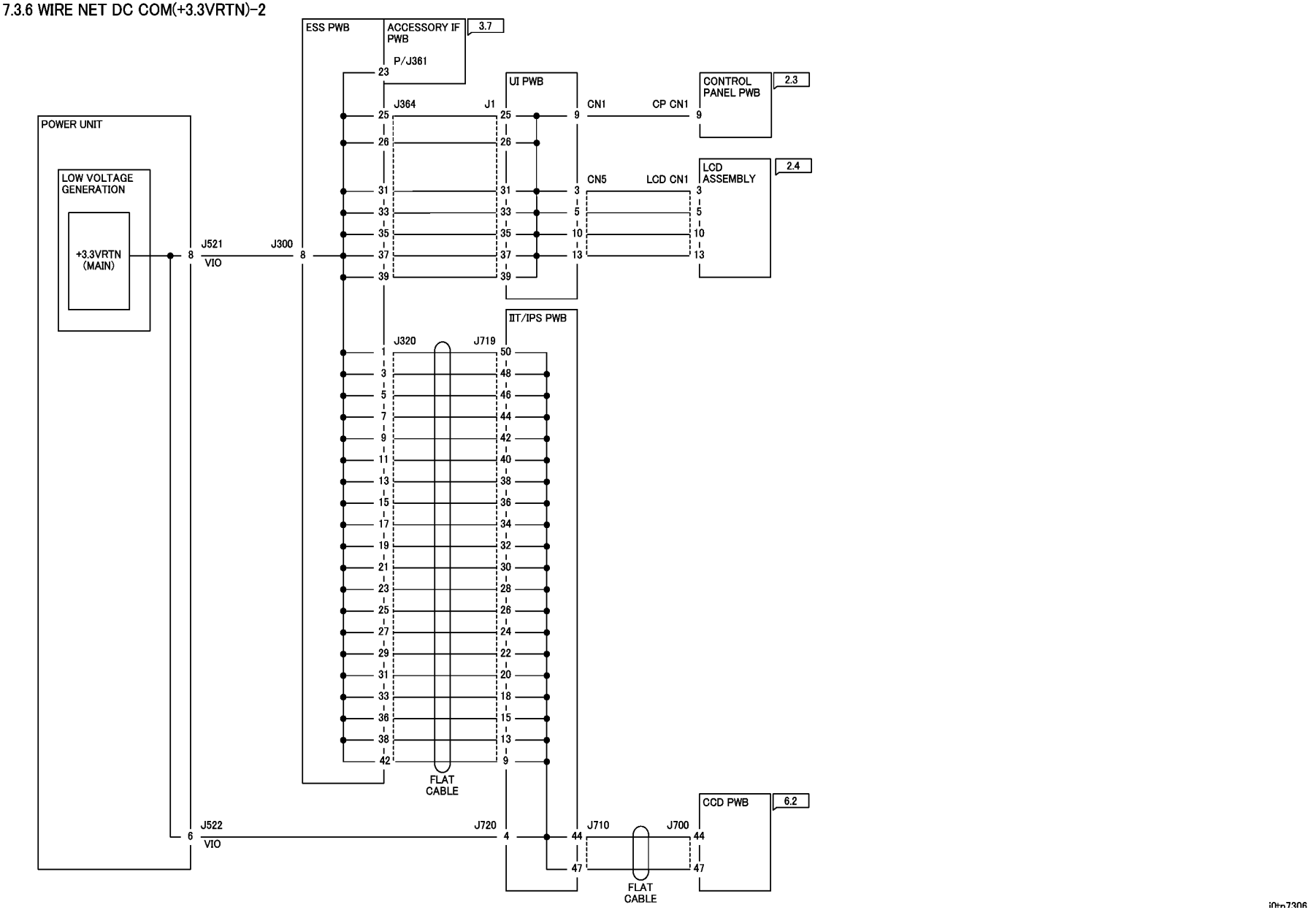


Figure 1 Wire Net DC COM(+3.3VRTN)-2 (j0tp7306)

7.3.7 WIRE NET +5VDC-1

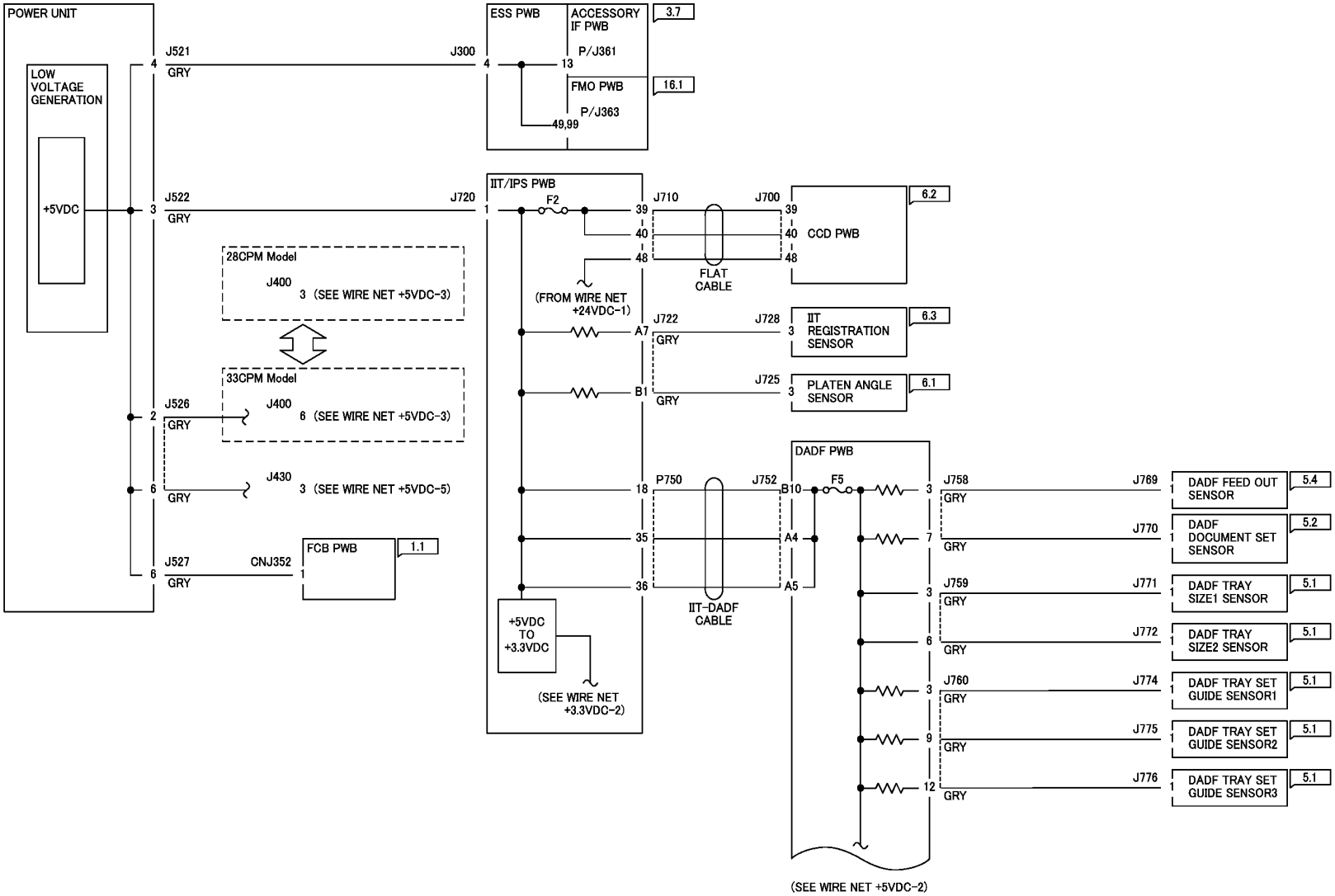
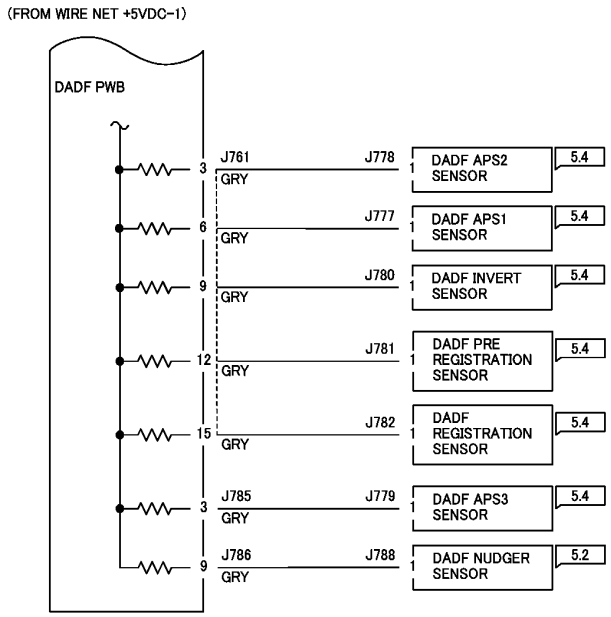


Figure 1 Wire Net +5VDC-1 (j0tp7307)

7.3.8 Wire Net +5VDC-2

7.3.8 WIRE NET +5VDC-2



j0tp7308

Figure 1 Wire Net +5VDC-2 (j0tp7308)

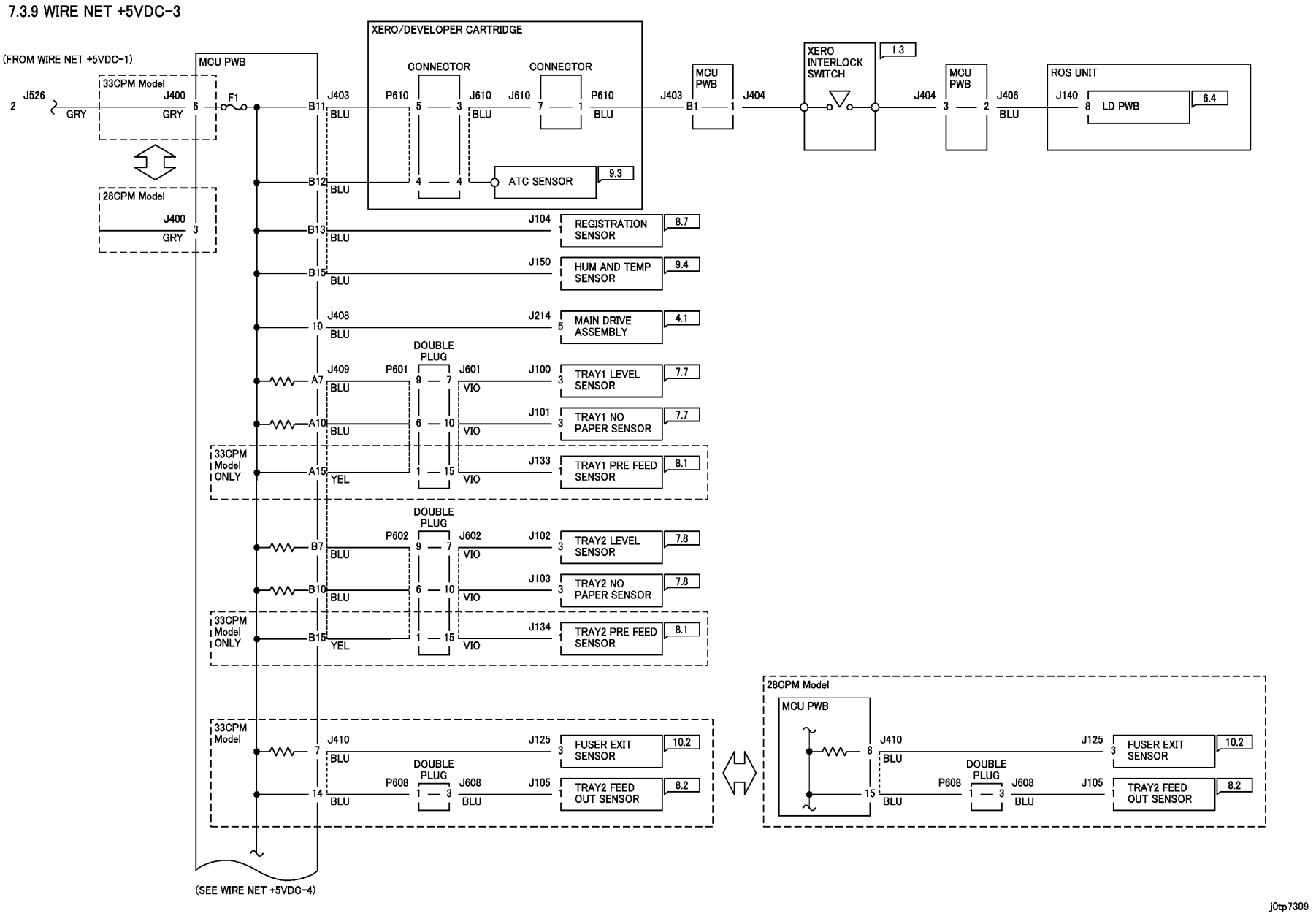


Figure 1 Wire Net +5VDC-3 (j0tp7309)

7.3.10 WIRE NET +5VDC-4

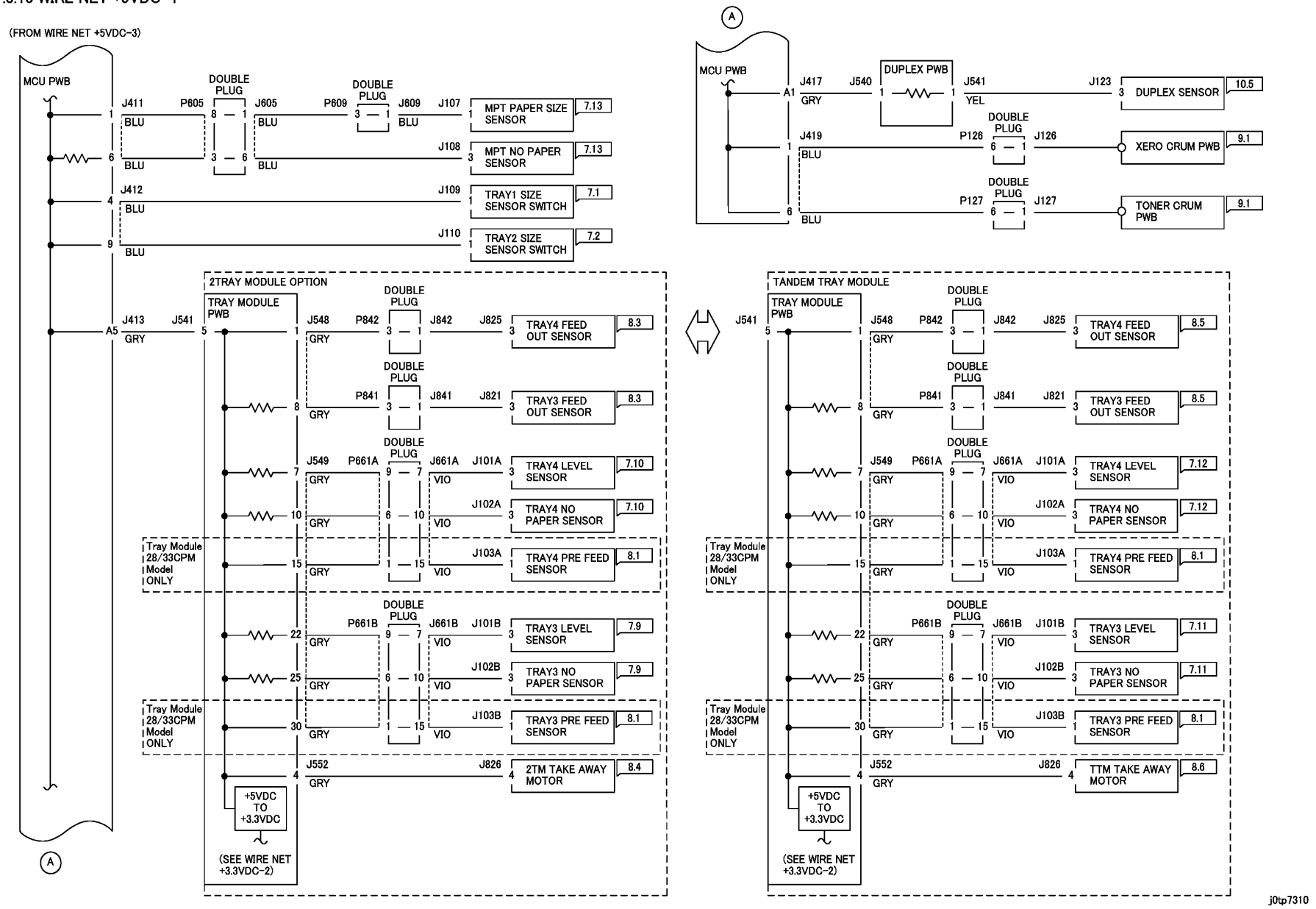
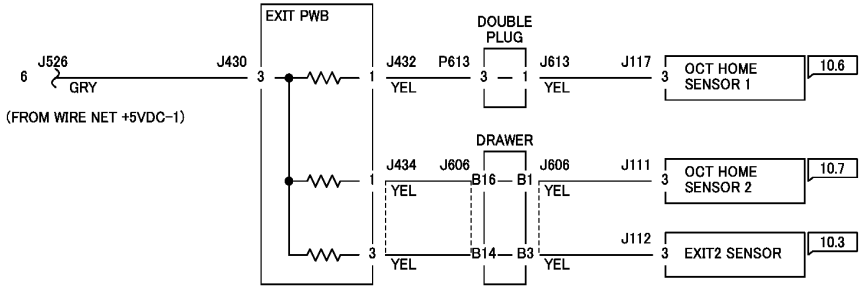


Figure 1 Wire Net +5VDC-4 (j0tp7310)

7.3.11 Wire Net +5VDC-5

7.3.11 WIRE NET +5VDC-5



j0tp7311

Figure 1 Wiring Net +5VDC-5 (j0tp7311)

7.3.12 WIRE NET DC COM(+5VRTN)-1

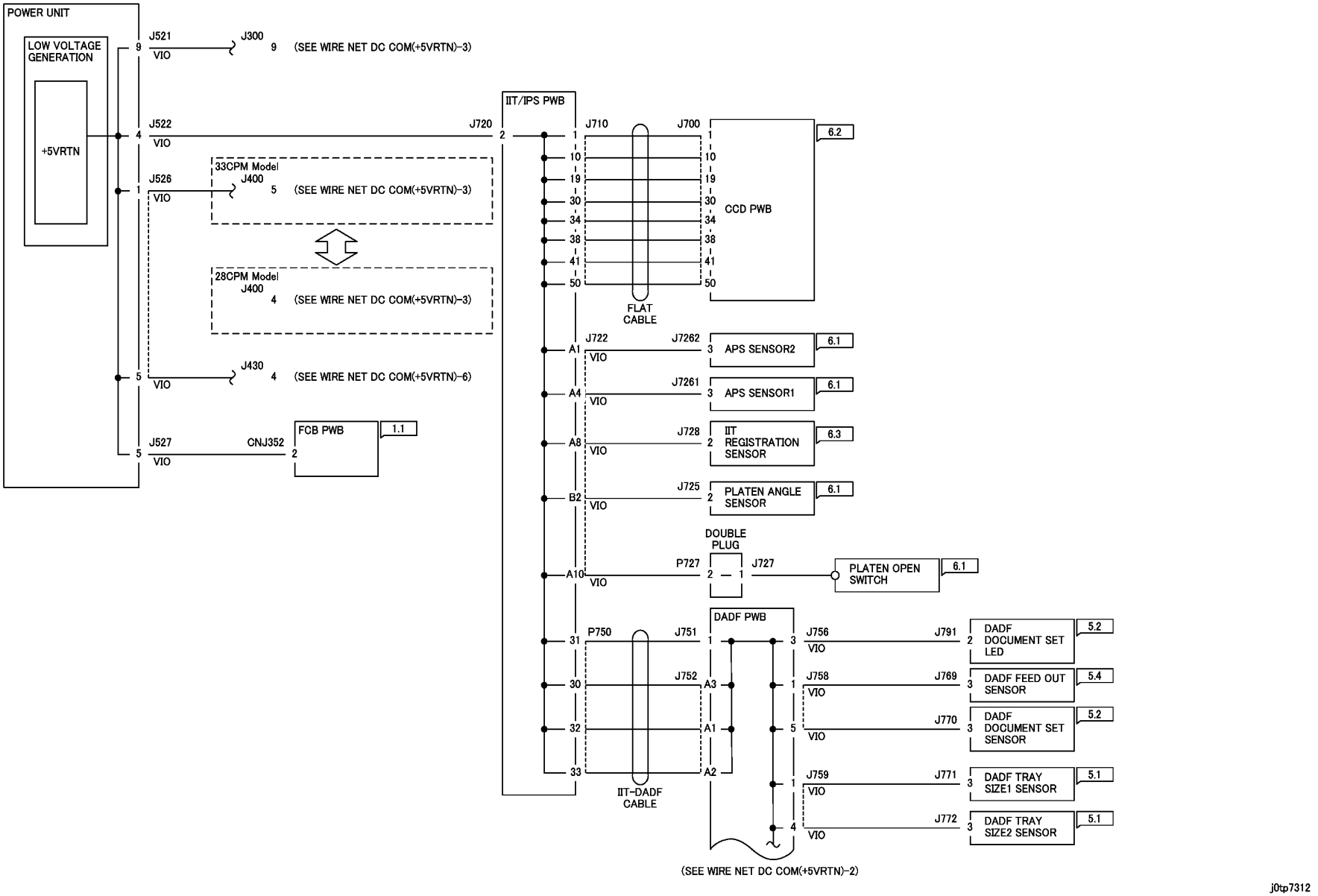
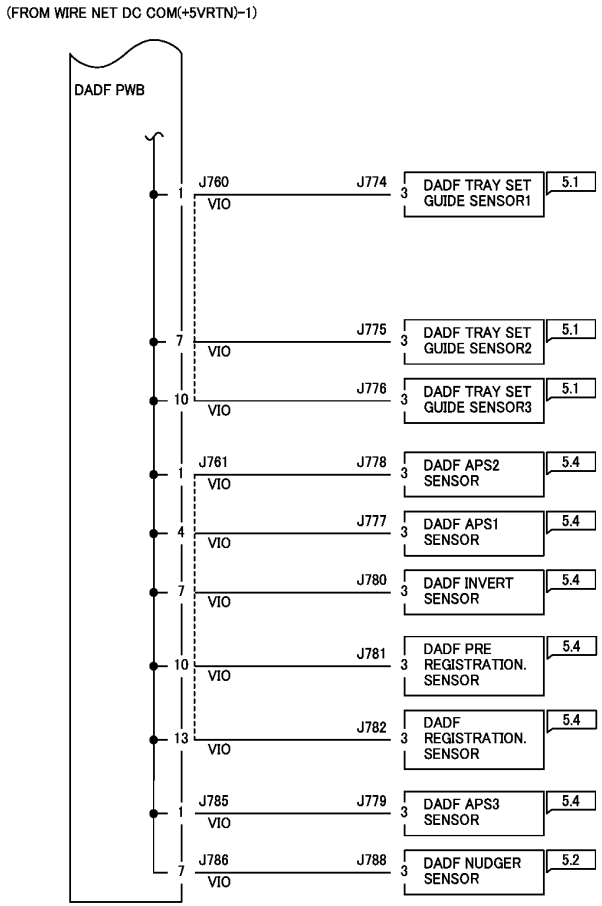


Figure 1 Wire Net DC COM(+5VRTN)-1 (j0tp7312)

7.3.13 Wire Net DC COM (+5VRTN)-2

7.3.13 WIRE NET DC COM(+5VRTN)-2



j0tp7313

Figure 1 Wire Net DC COM(+5VRTN)-2 (j0tp7313)

7.3.14 Wire Net DC COM (+5VRTN)-3

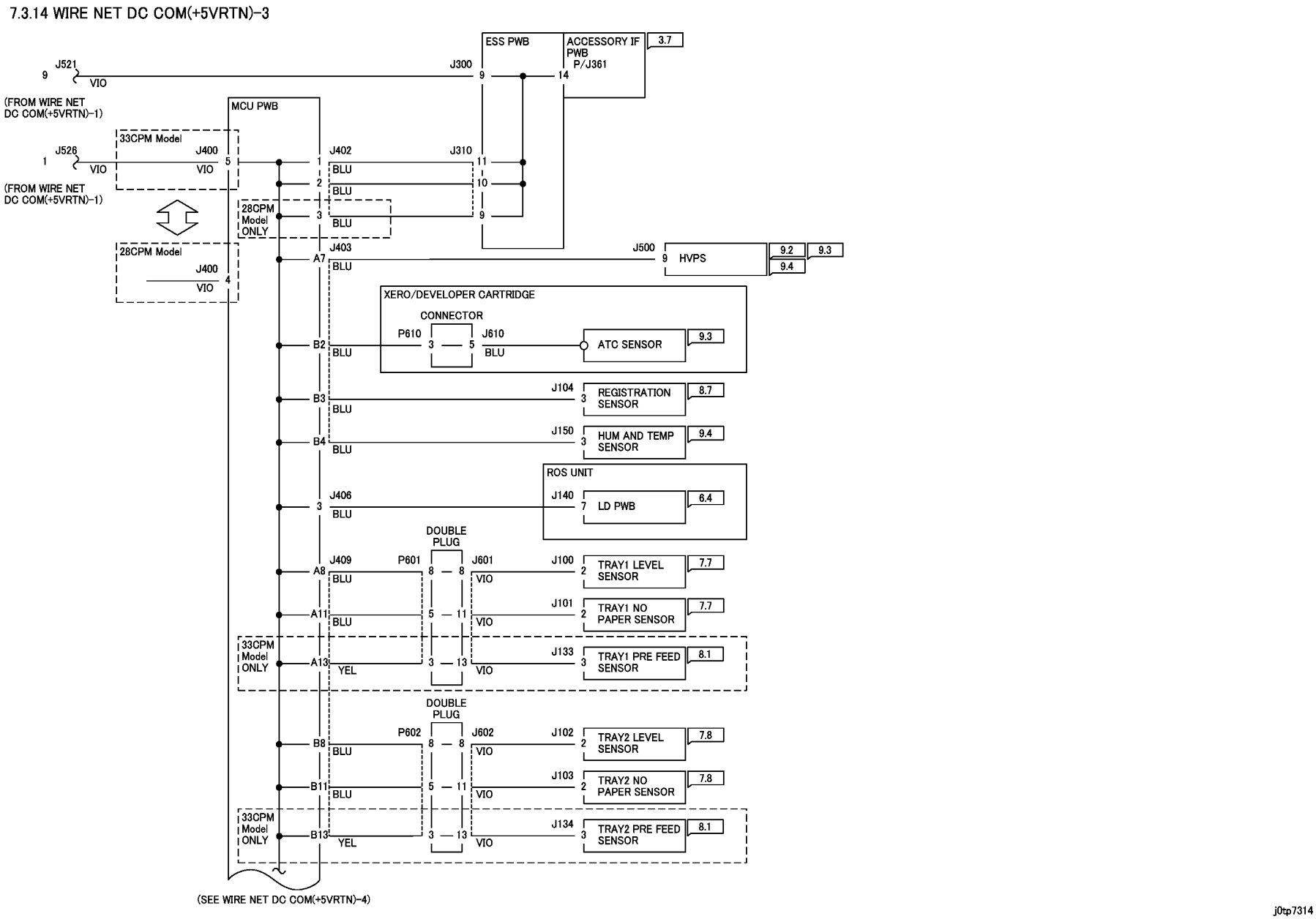


Figure 1 Wire Net DC COM (+5VRTN)-3 (j0tp7314)

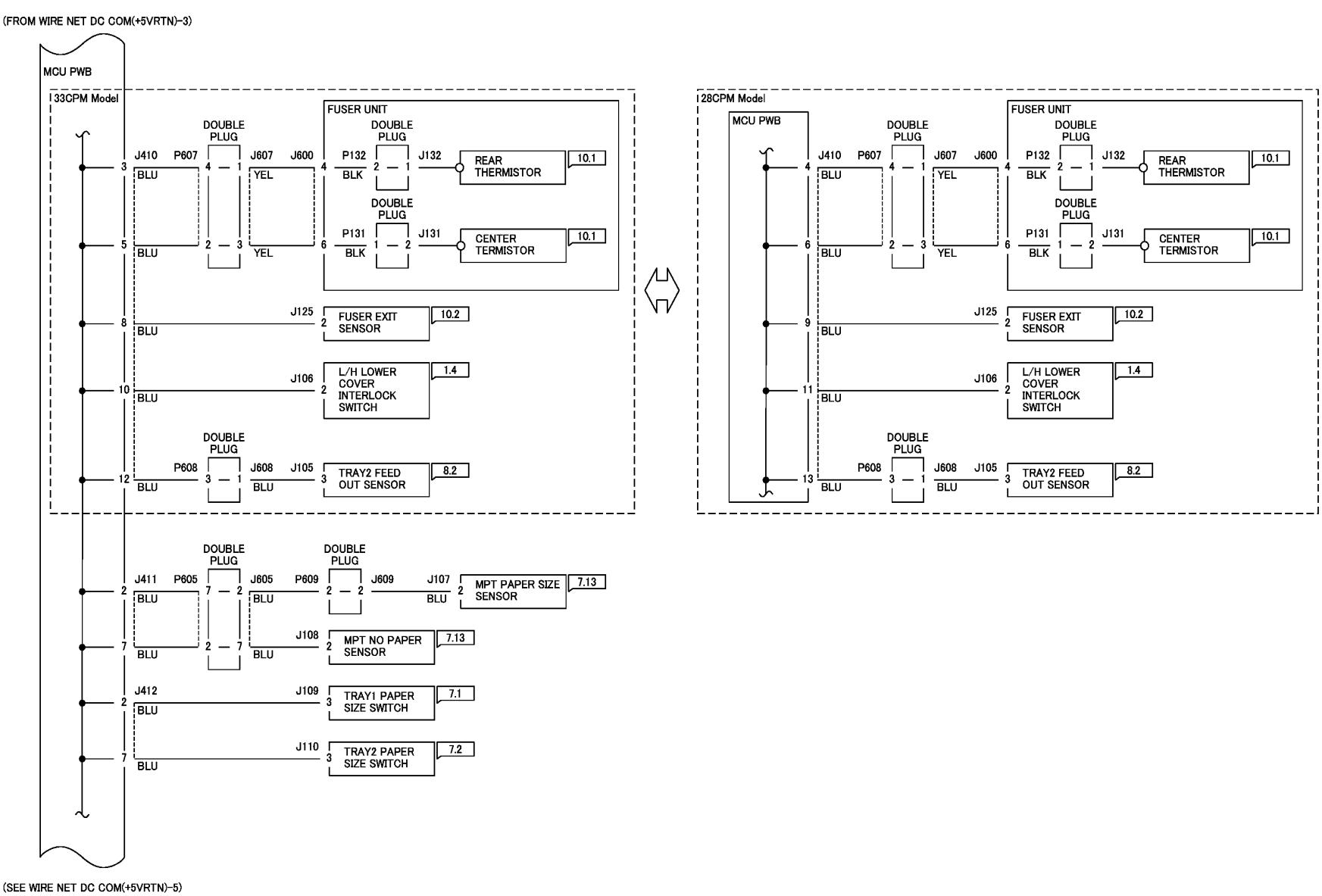


Figure 1 Wire Net DC COM (+5VRTN)-4 (j0tp7315)

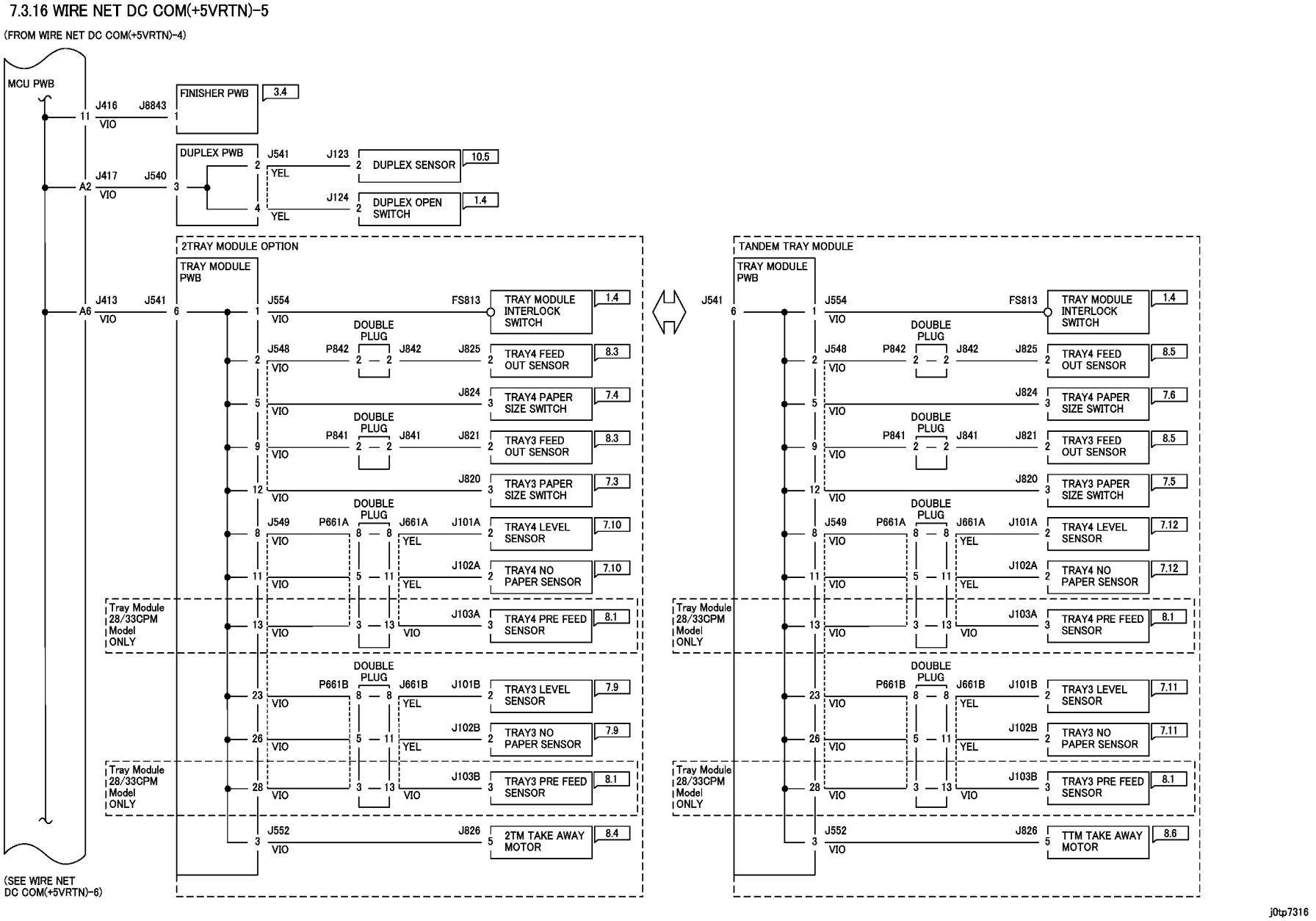
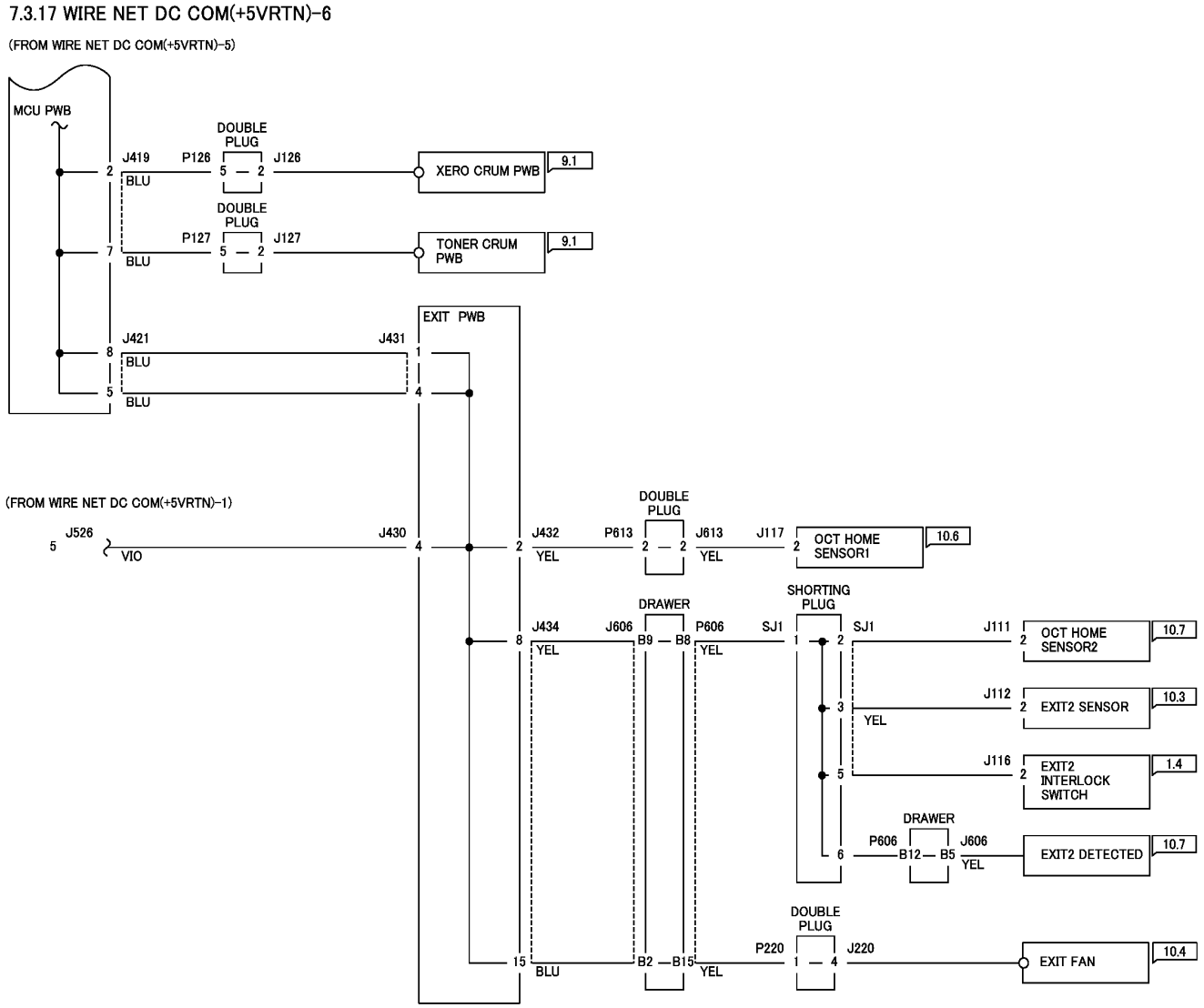


Figure 1 Wire Net DC COM (+5VRTN)-5 (j0tp7316)

7.3.17 Wire Net DC COM (+5VRTN)-6



j0tp7317

Figure 1 Wire Net DC COM (+5VRTN)-6 (j0tp7317)

7.3.18 WIRE NET +24VDC-1

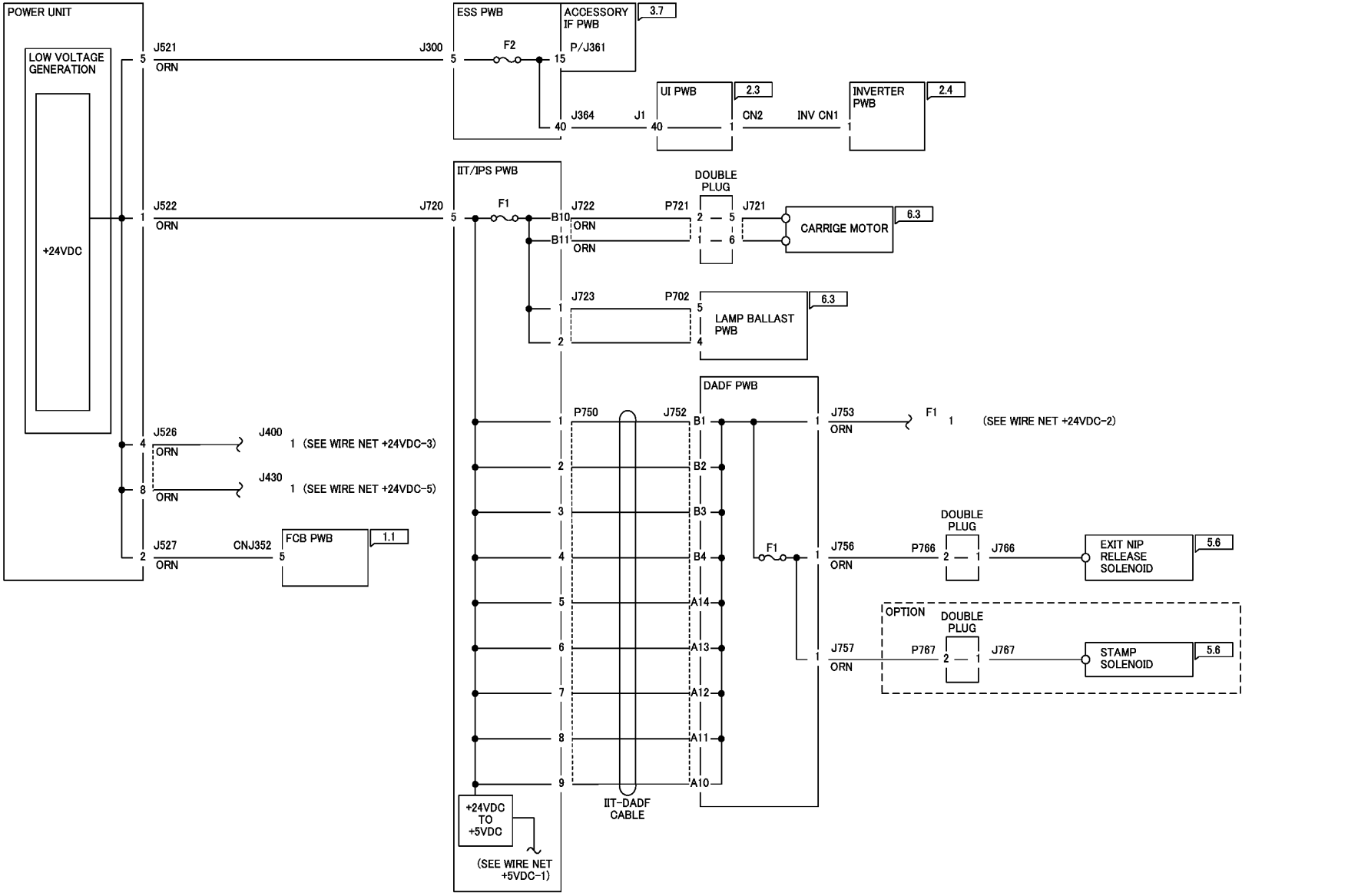
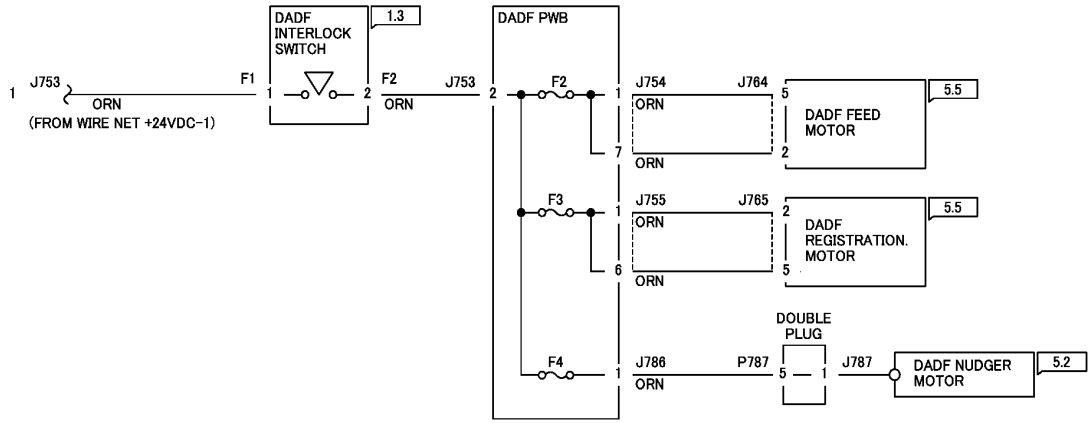


Figure 1 Wire Net +24VDC-1 (j0tp7318)

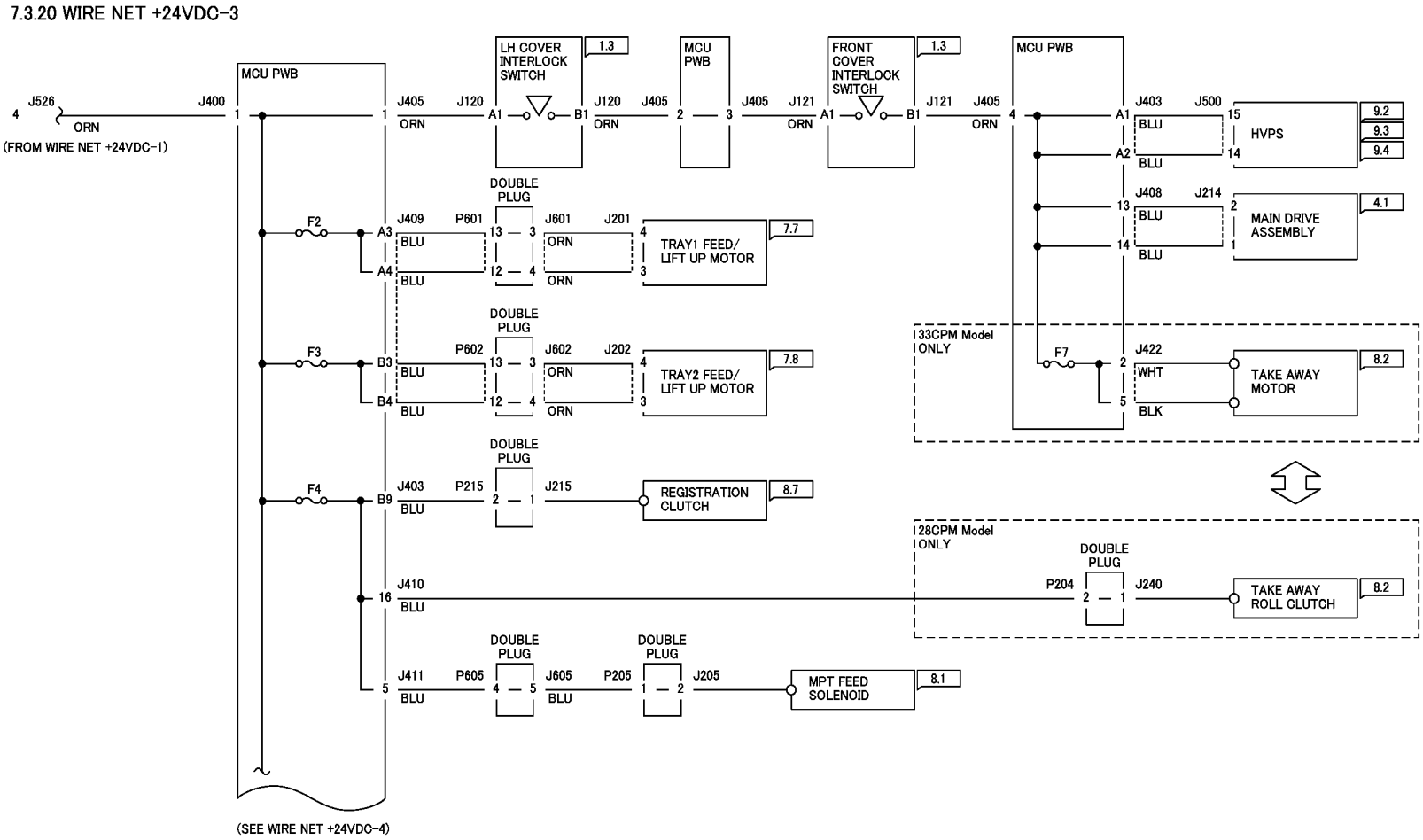
7.3.19 Wire Net +24VDC-2

7.3.19 WIRE NET +24VDC-2



j0tp7319

Figure 1 Wire Net +24VDC-2 (j0tp7319)



j0tp7320

Figure 1 Wire Net +24VDC-3 (j0tp7320)

7.3.21 WIRE NET +24VDC-4

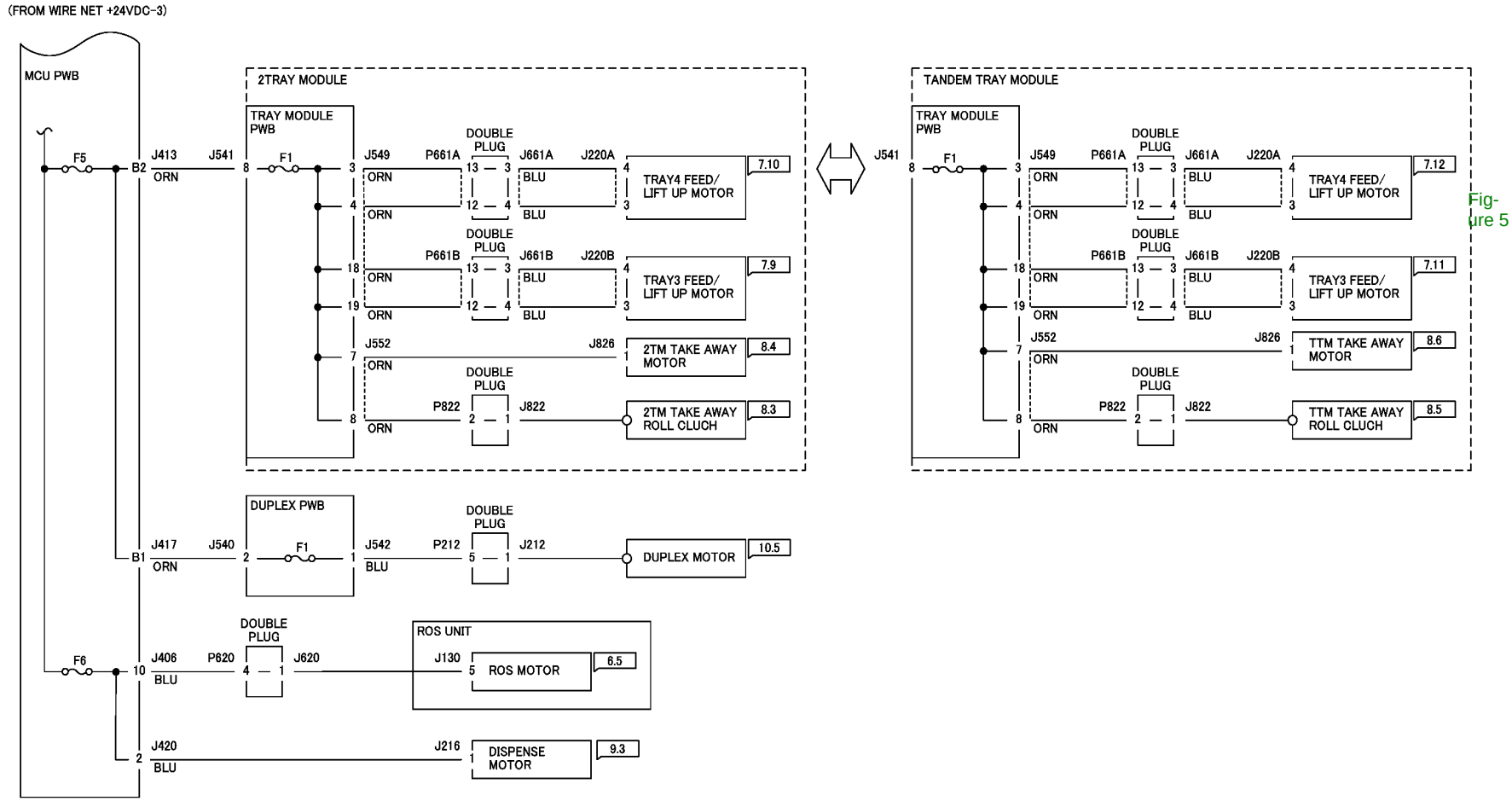
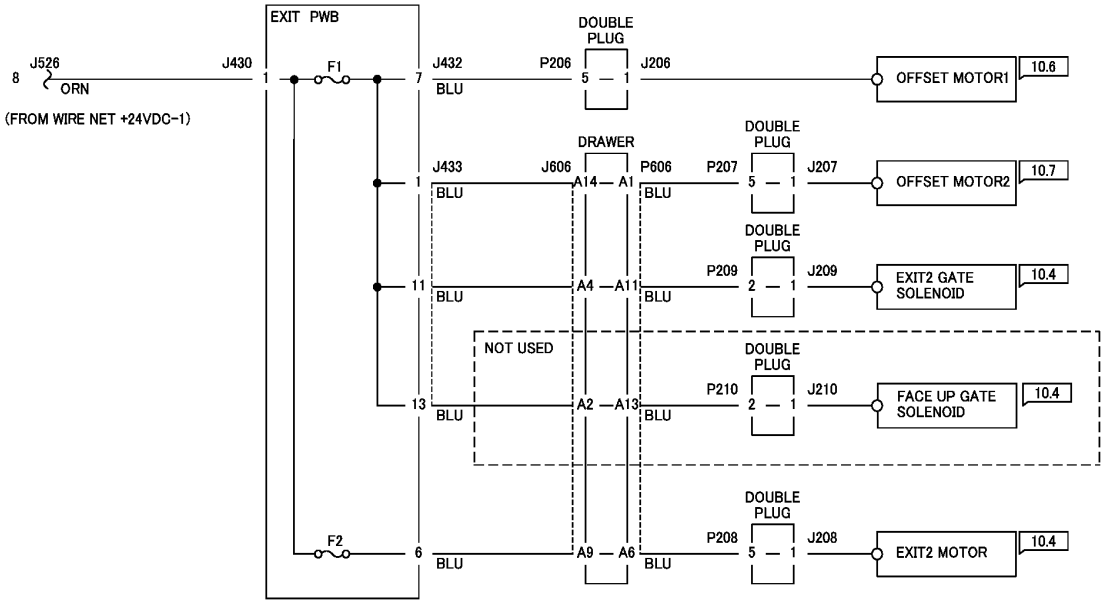


Figure 5

Figure 1 Wire Net +24VDC-4 (j0tp7321)

7.3.22 Wire Net +24VDC-5

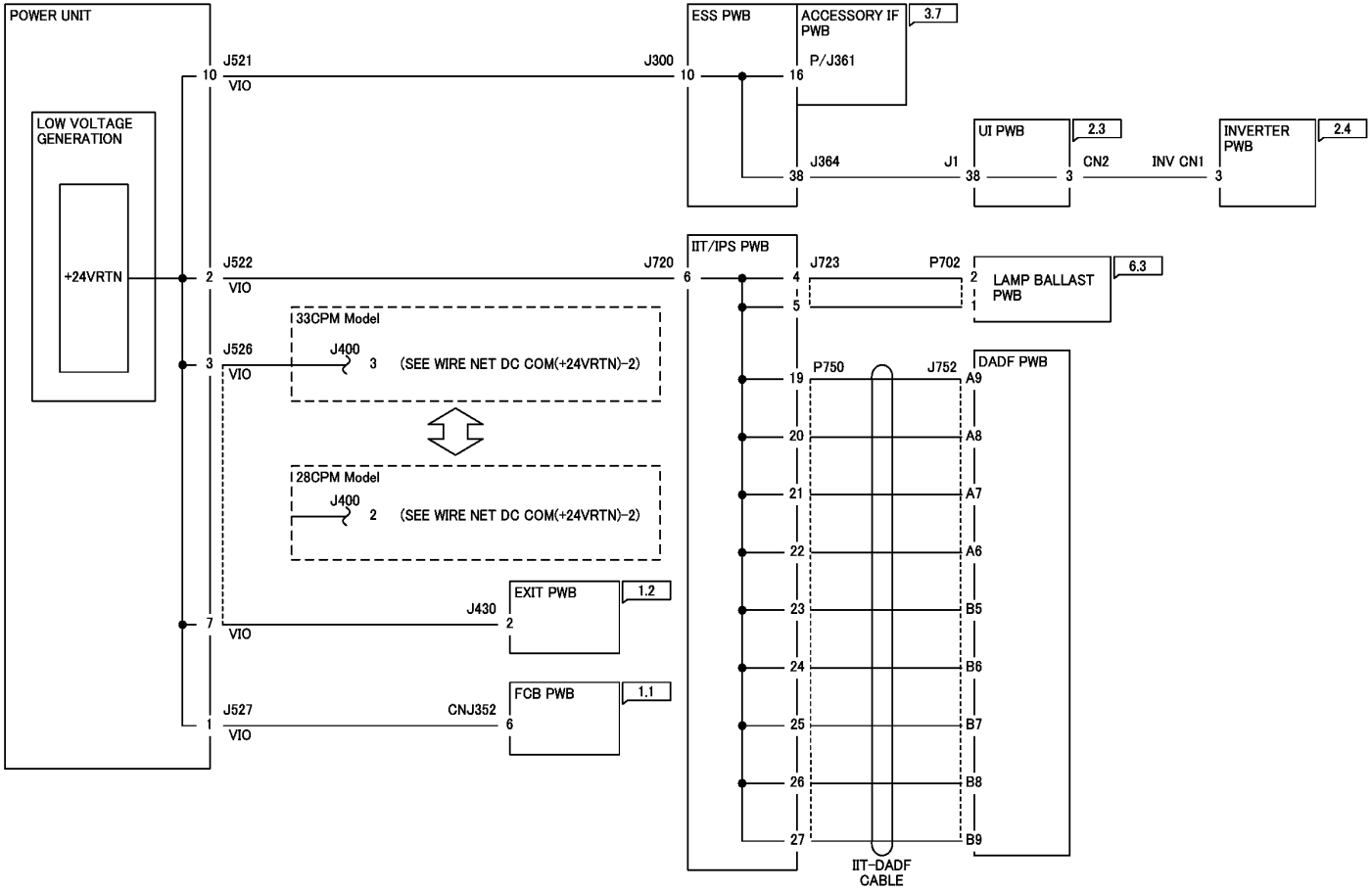


j0tp7322

Figure 1 Wire Net +24VDC-5 (j0tp7322)

7.3.23 Wire Net DC COM (+24VRTN)-1

7.3.23 WIRE NET DC COM(+24VRTN)-1



j0tp7323

Figure 1 Wire Net DC COM (+24VRTN)-1 (j0tp7323)

7.3.24 Wire Net DC COM (+24VRTN)-2

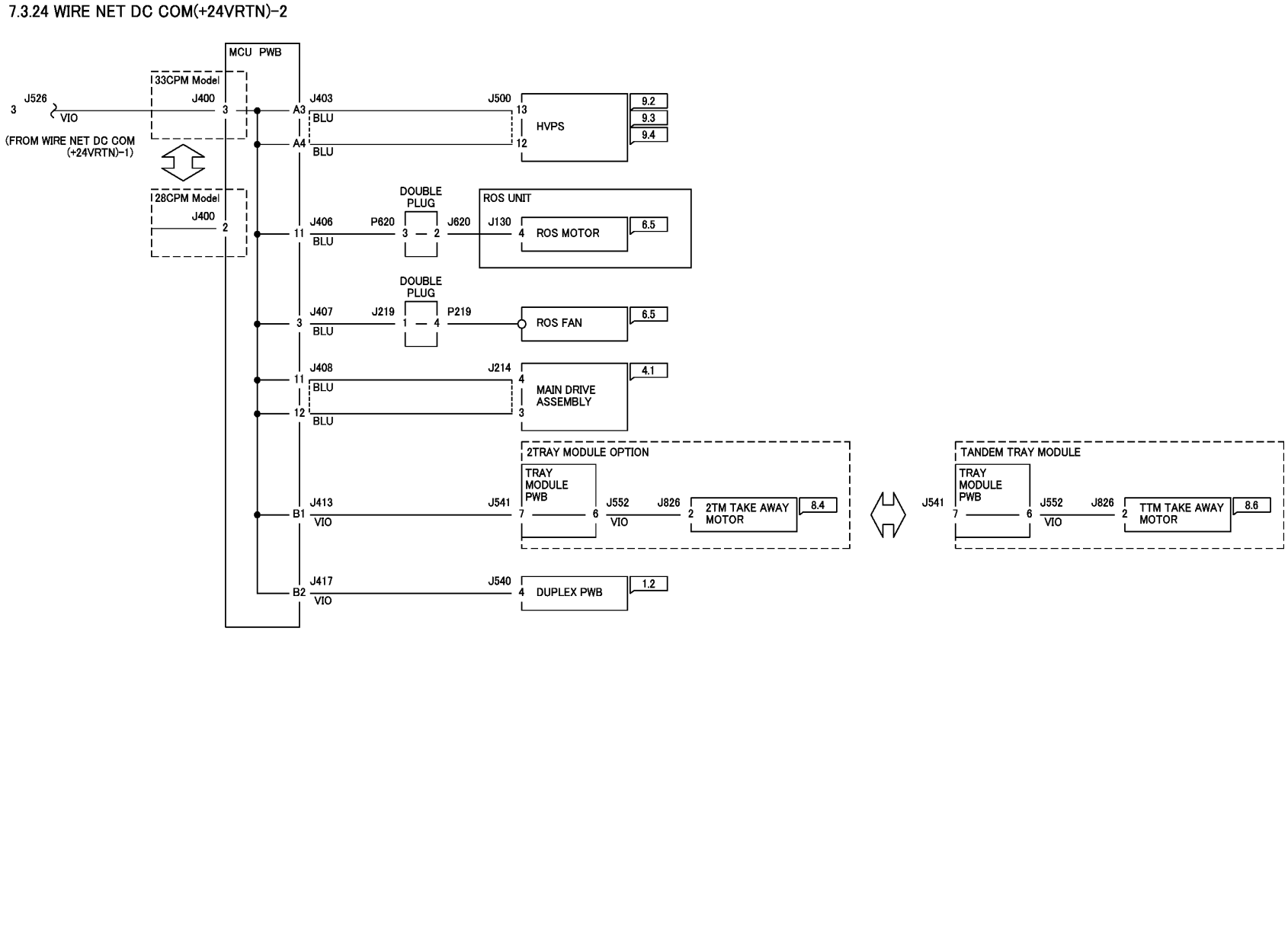


Figure 1 Wire Net DC COM (+24VRTN)-2 (j0tp7324)

7.3.25 Finisher Wire Net +5VDC

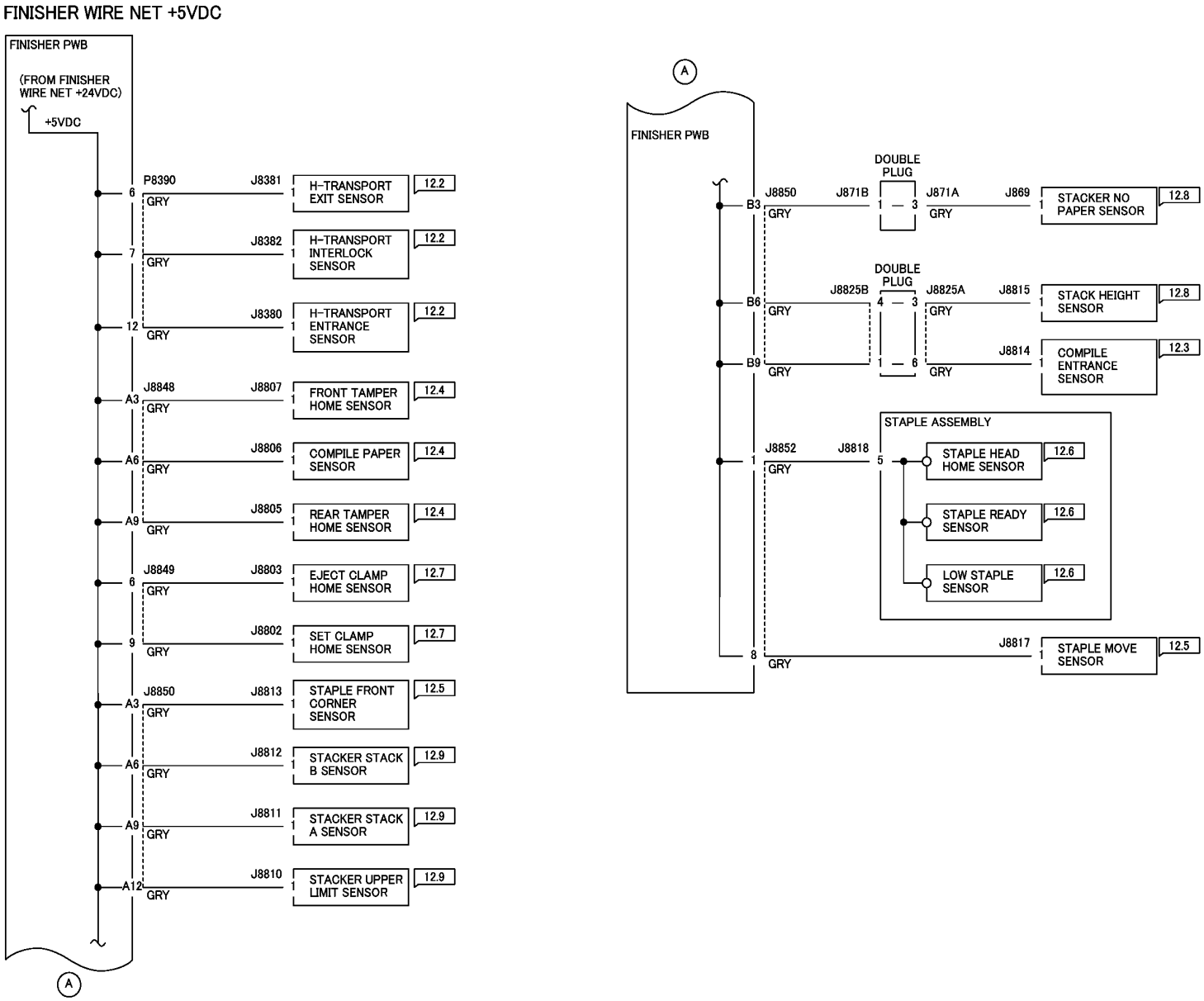


Figure 1 Finisher Wire Net +5VDC (j0tp7325)

7.3.26 FINISHER WIRE NET DC COM(+5VRTN)

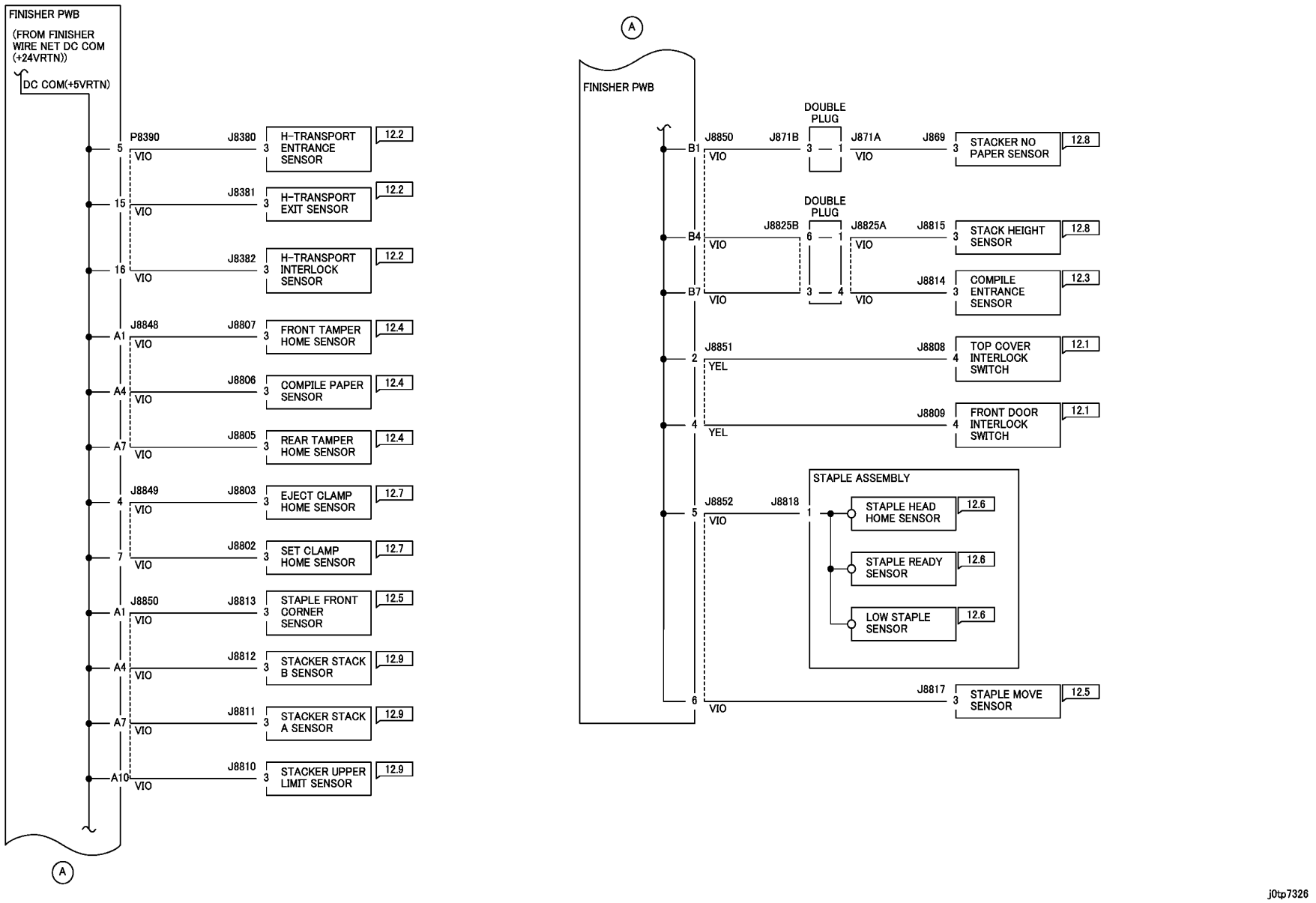
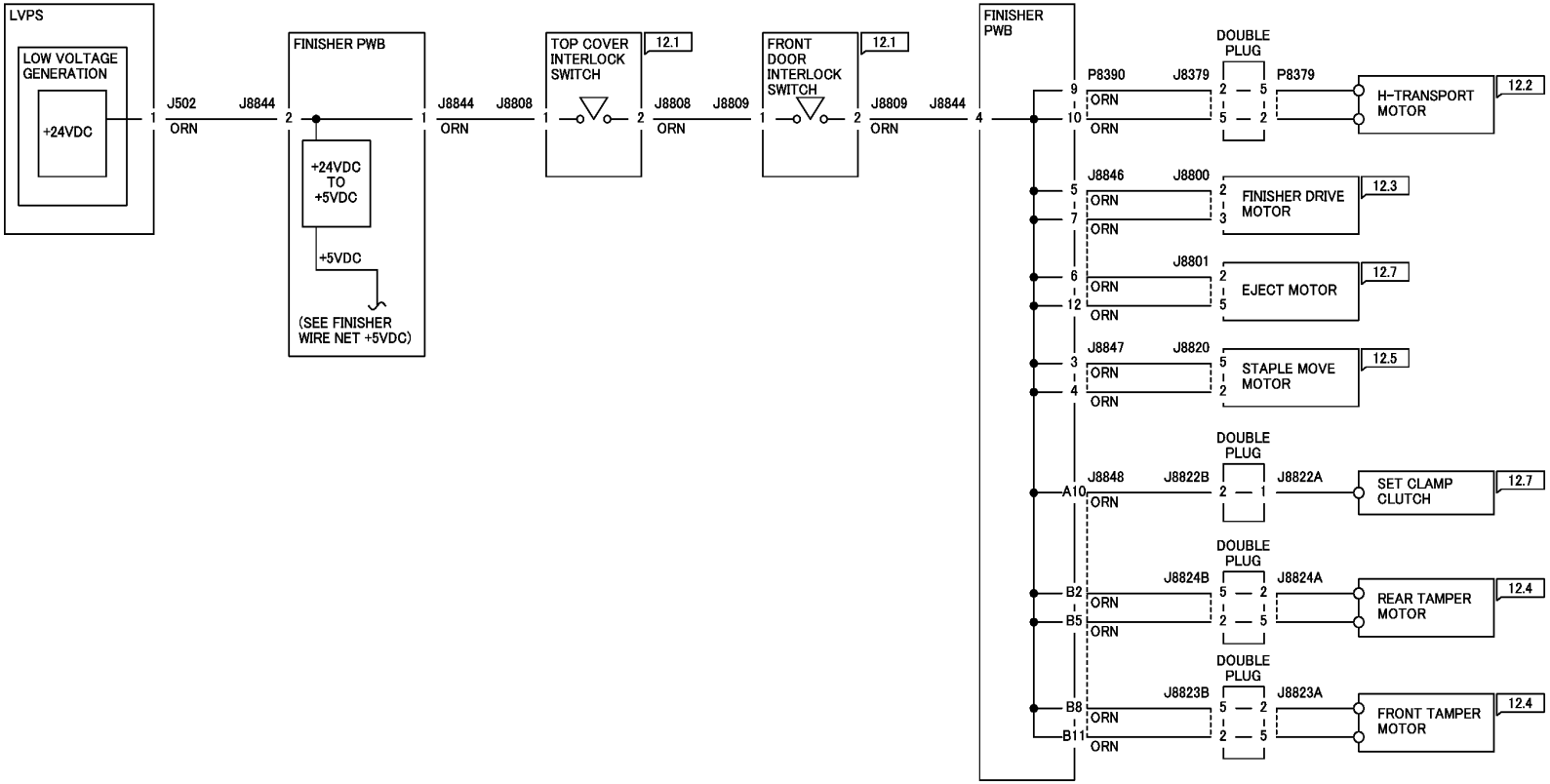


Figure 1 Finisher Wire Net DC COM(+5VRTN) (j0tp7326)

7.3.27 Finisher Wire Net +24VDC

7.3.27 FINISHER WIRE NET +24VDC

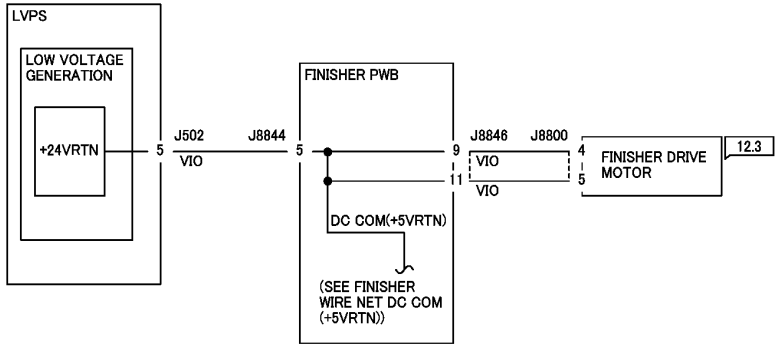


j0tp7327

Figure 1 Finisher Wire Net +24VDC (j0tp7327)

7.3.28 Finisher Wire Net DC COM (+24VRTN)

7.3.28 FINISHER WIRE NET DC COM(+24VRTN)



j0tp7328

Figure 1 Finisher Wire Net DC COM(+24VRTN) (j0tp7328)

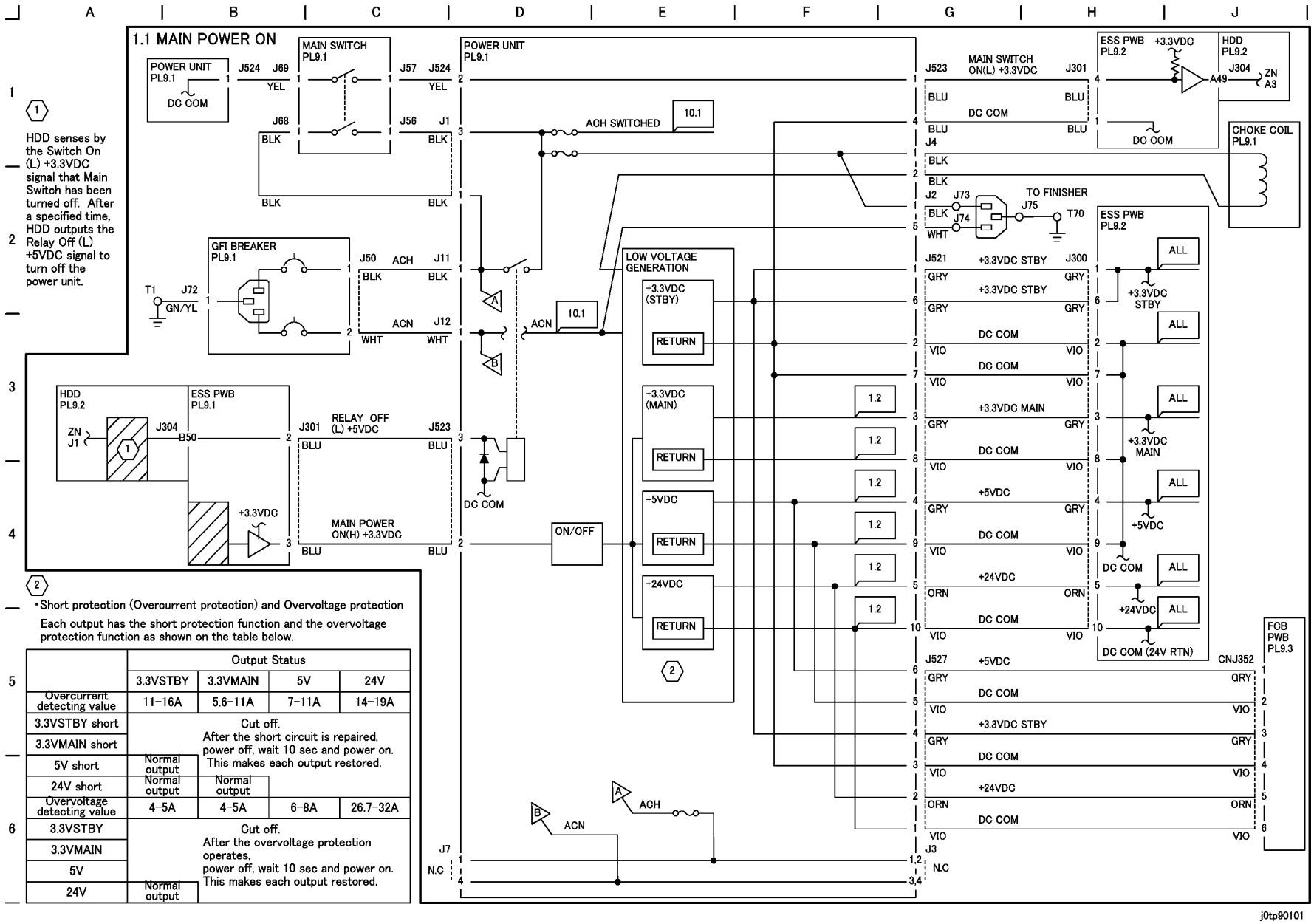


Figure 1 MAIN POWER ON (j0tp90101)

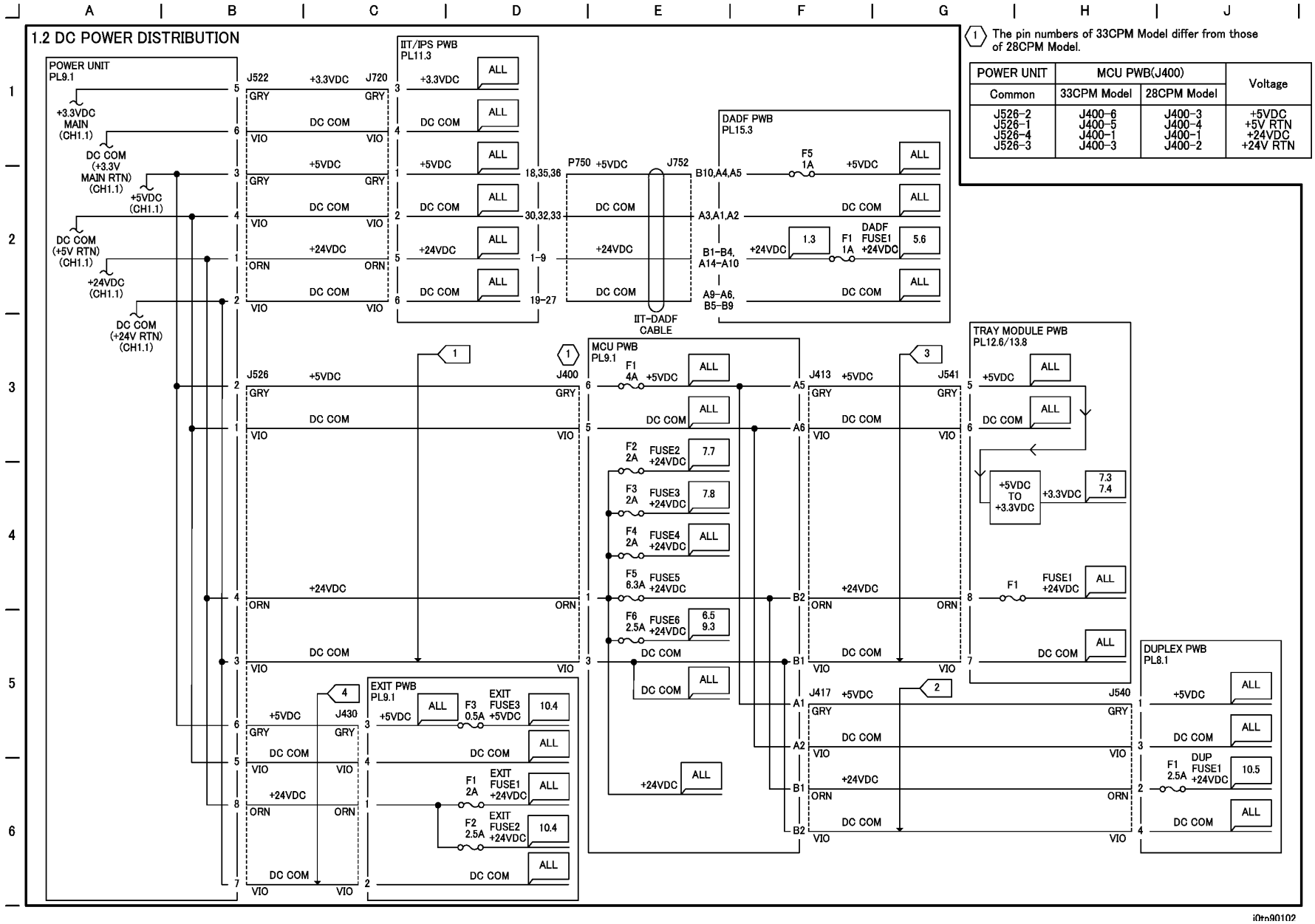


Figure 2 DC POWER DISTRIBUTION (j0tp90102)

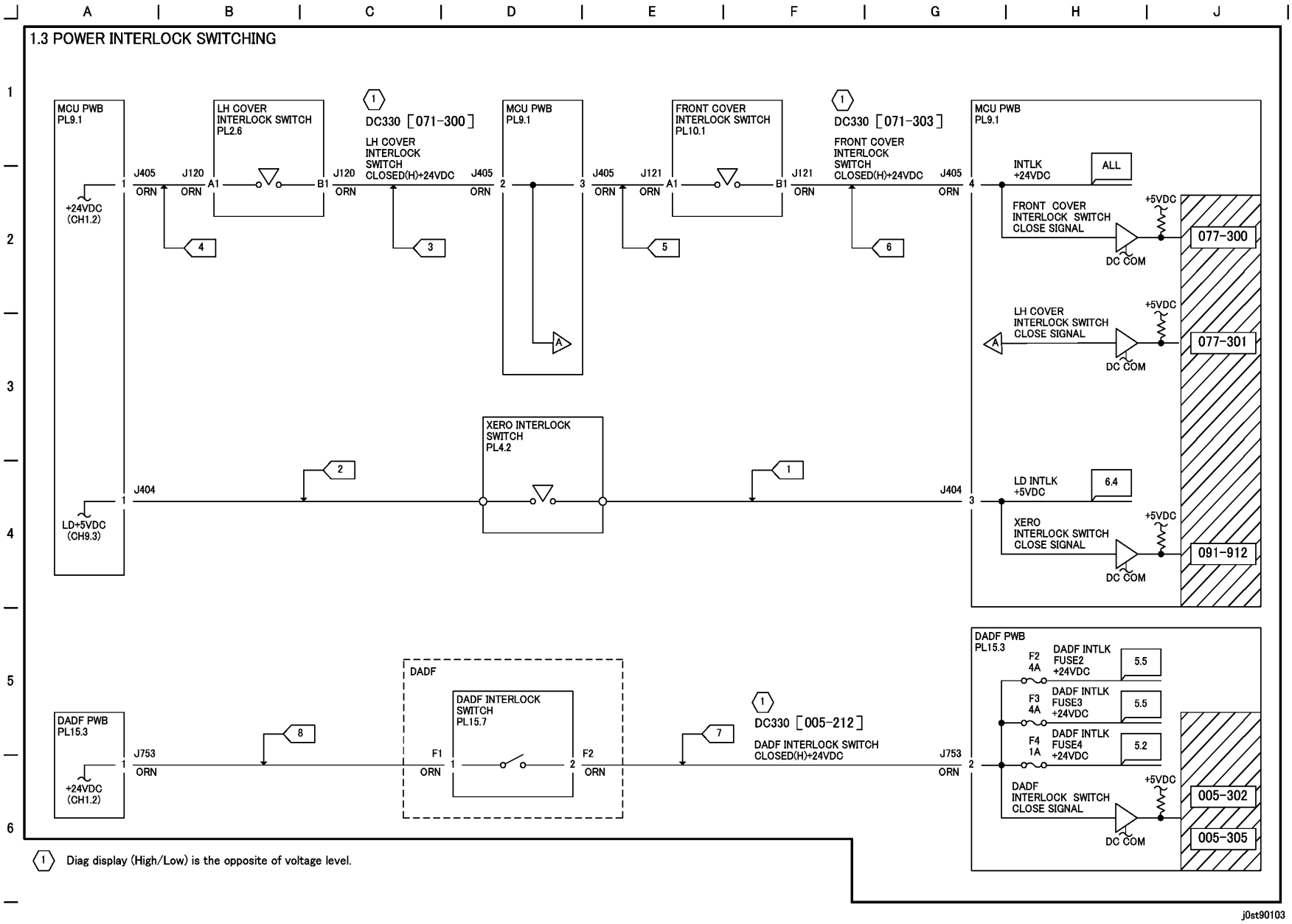


Figure 3 POWER INTERLOCK SWITCHING (j0st90103)

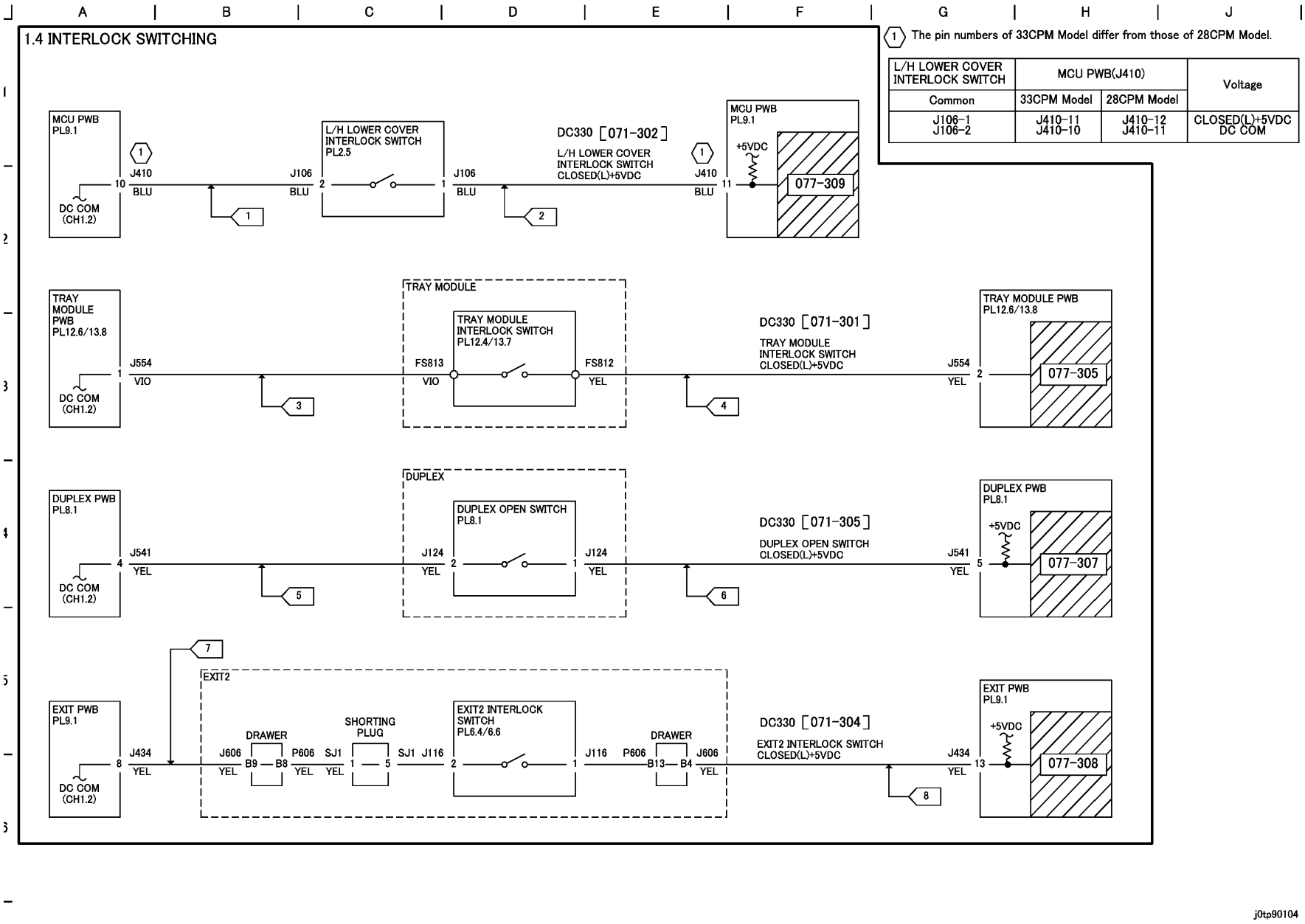


Figure 4 INTERLOCK SWITCHING (j0tp90104)

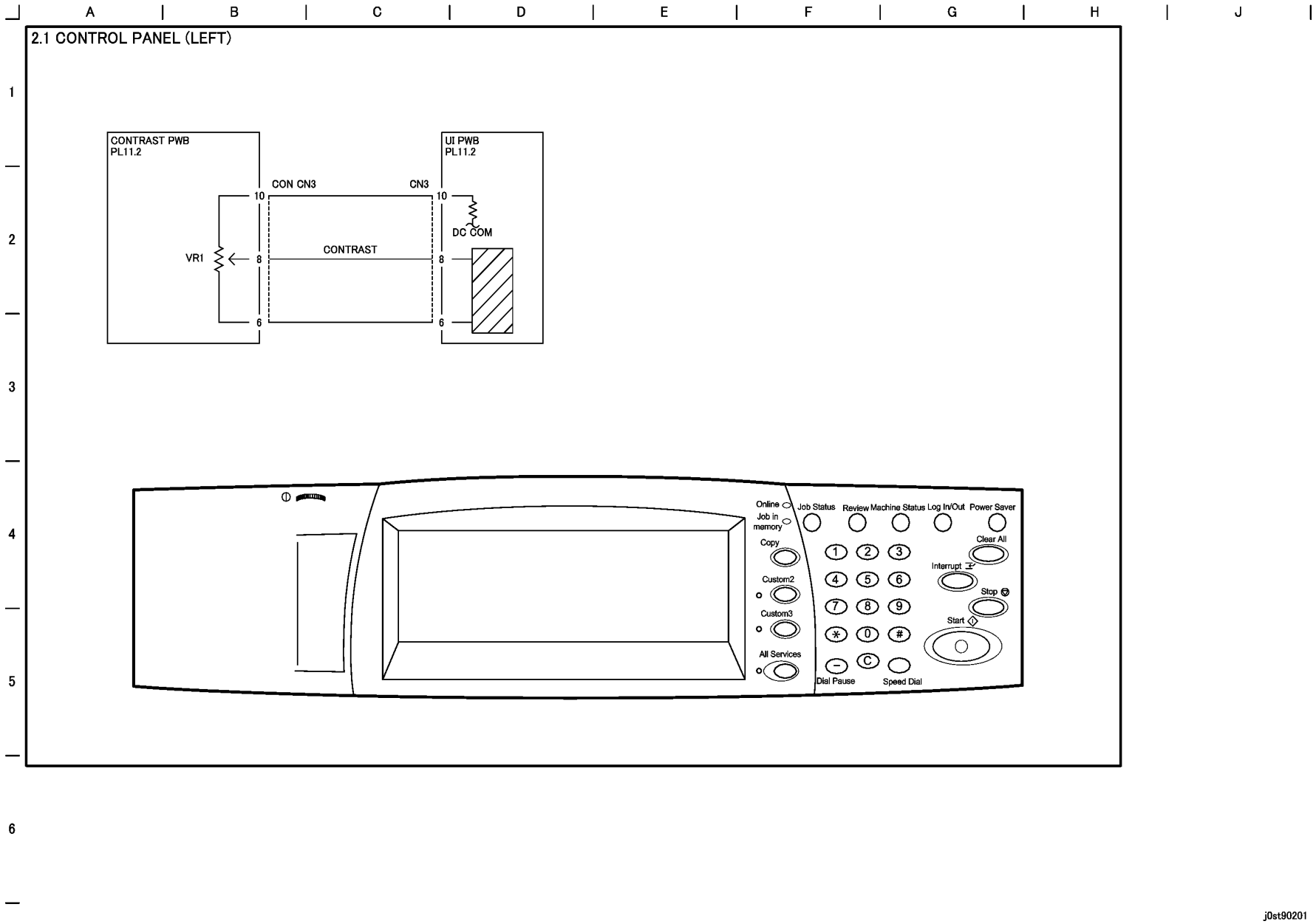


Figure 1 CONTROL PANEL(LEFT) (j0st90201)

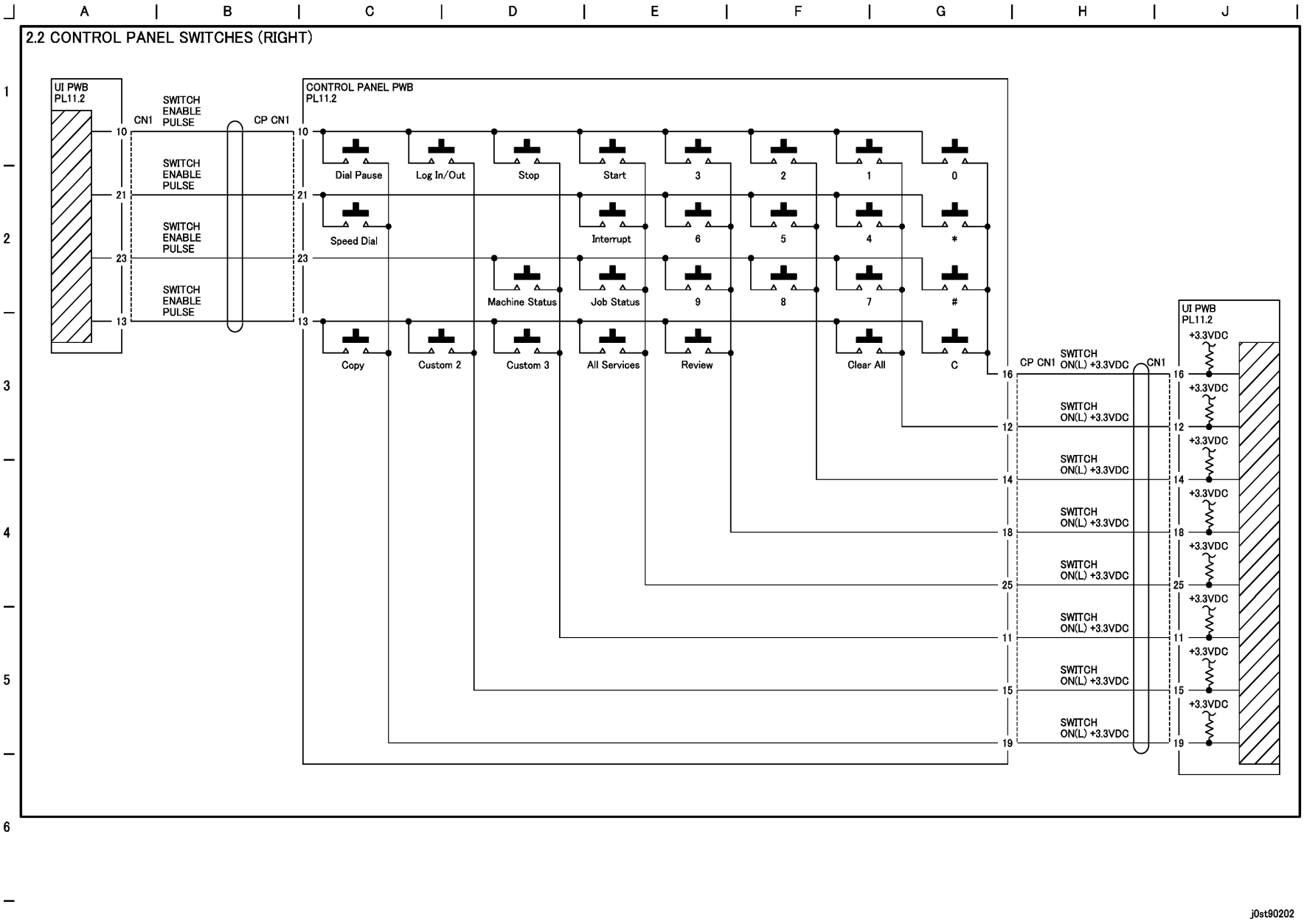


Figure 2 CONTROL PANEL SWITCHES(RIGHT) (j0st90202)

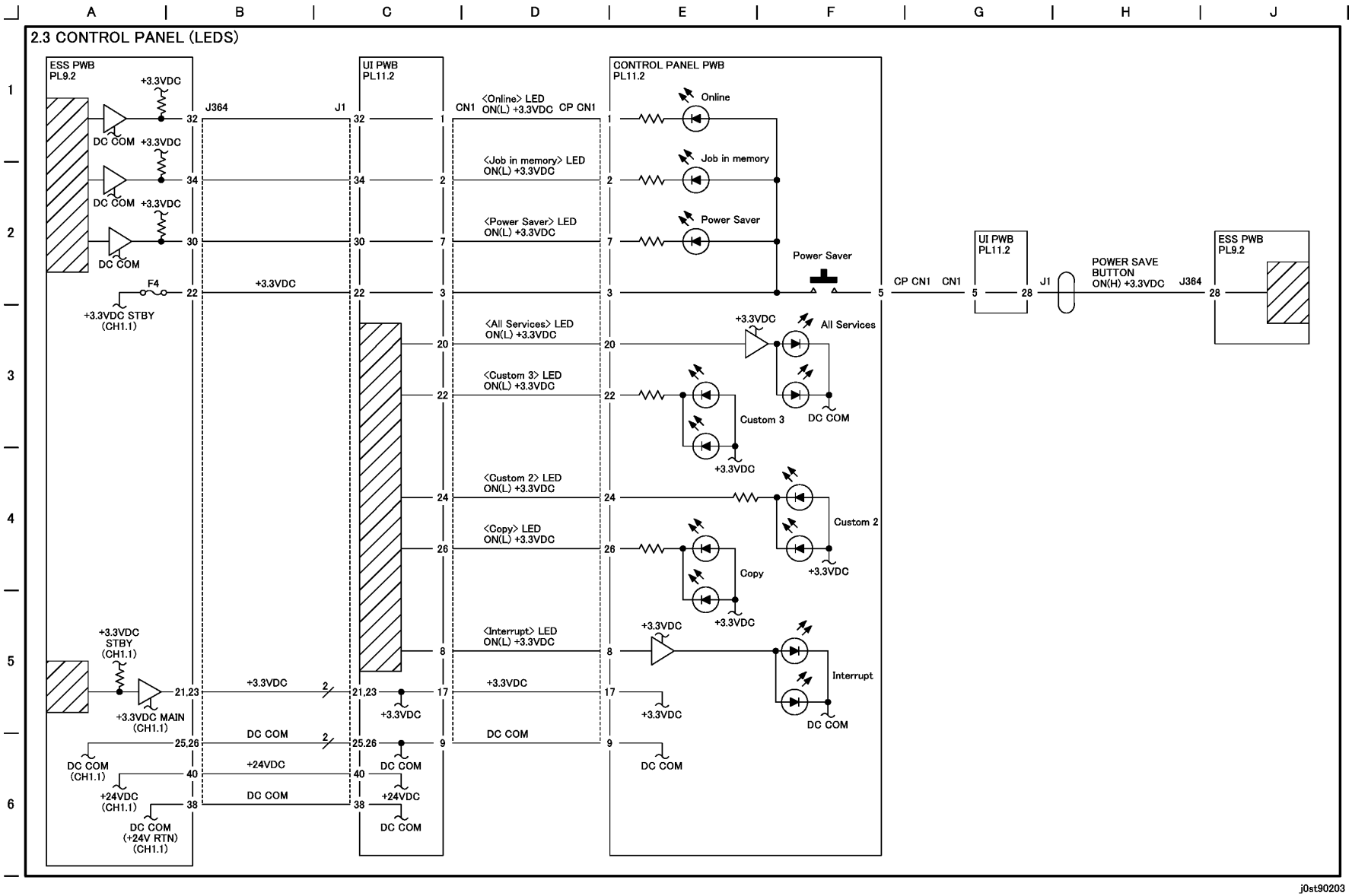


Figure 3 CONTROL PANEL(LENS) (j0st90203)

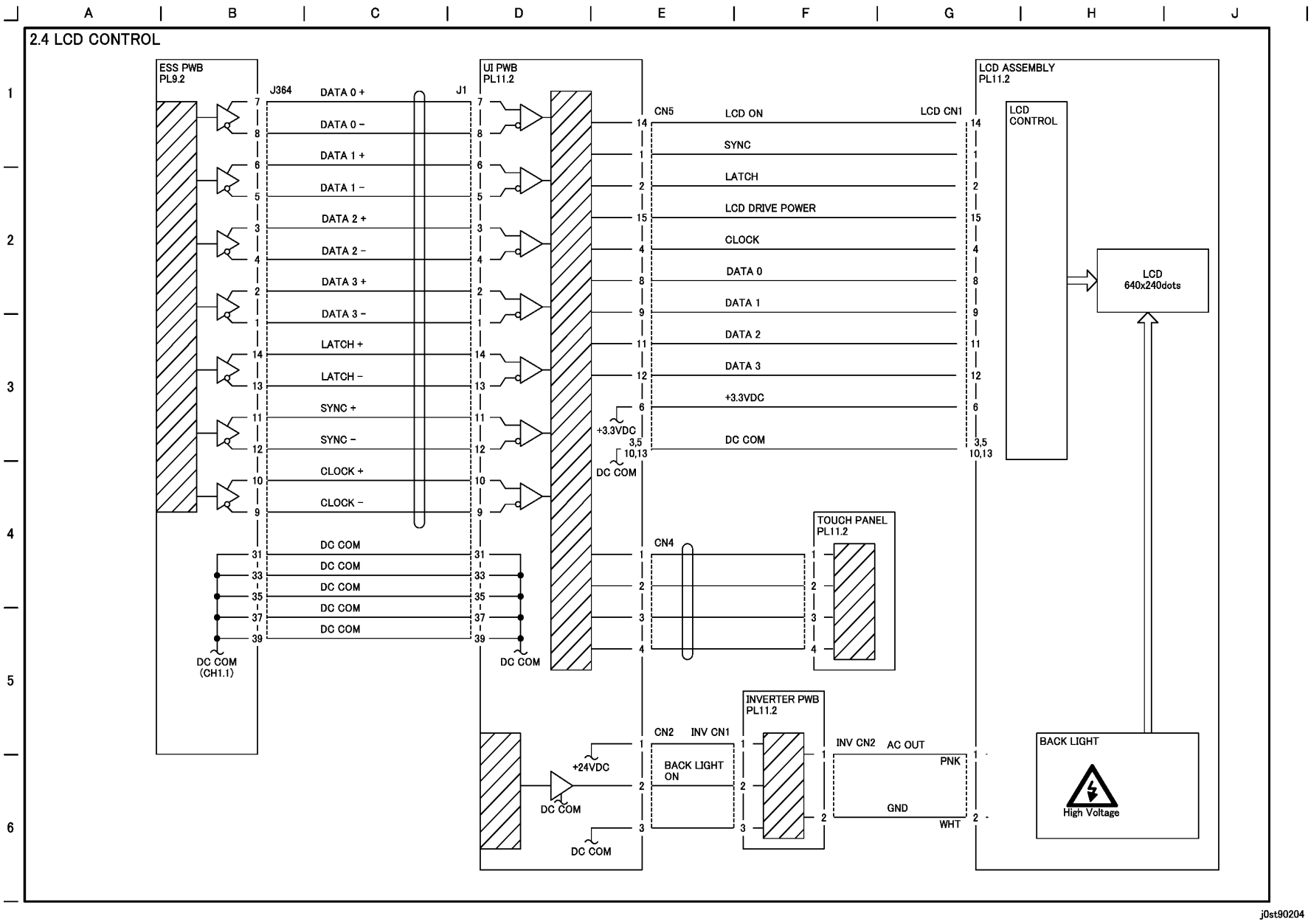


Figure 4 LCD CONTROL (j0st90204)

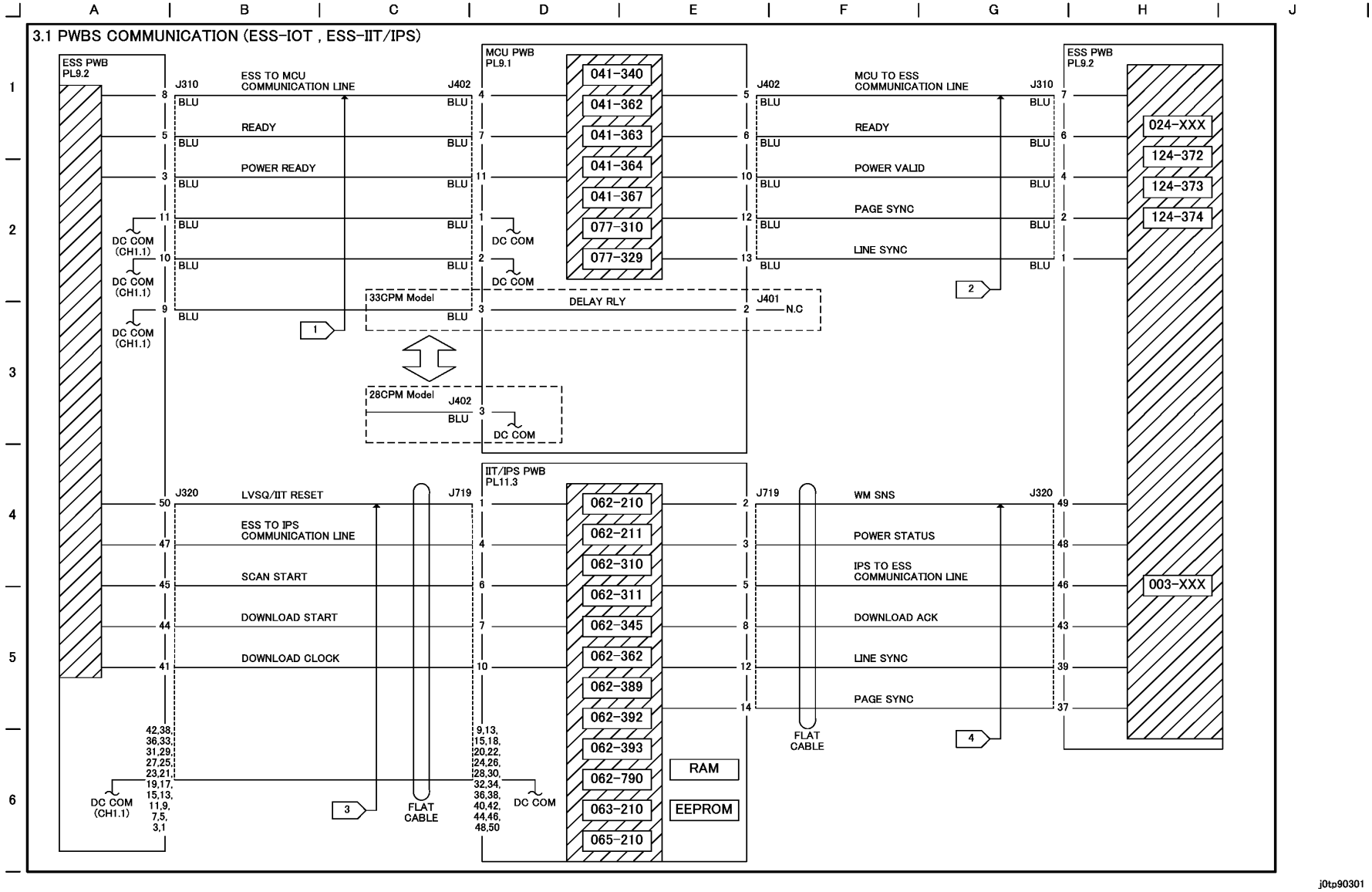


Figure 1 PWBS COMMUNICATION (ESS-IOT, ESS-IIT/IPS) (j0tp90301)

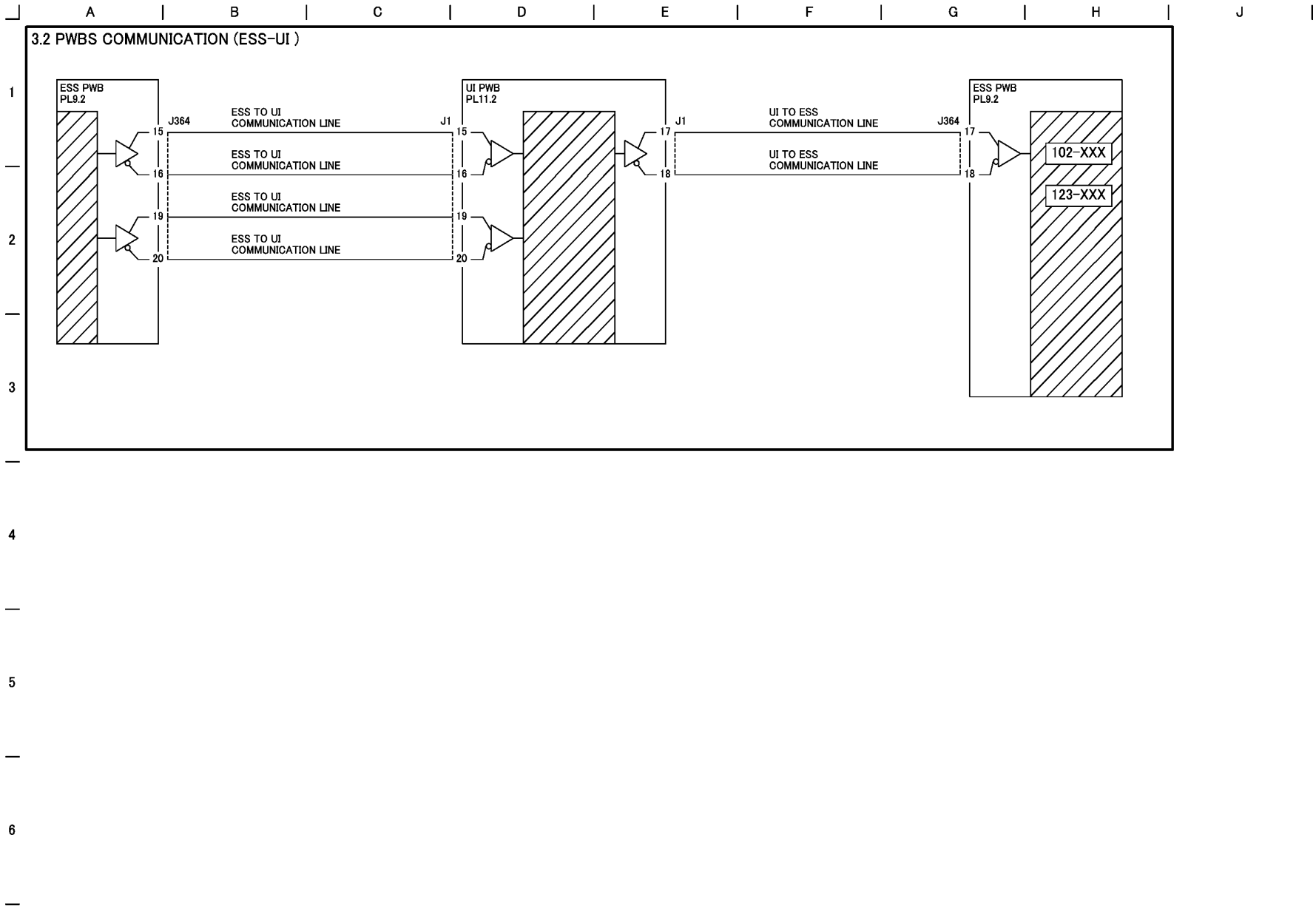
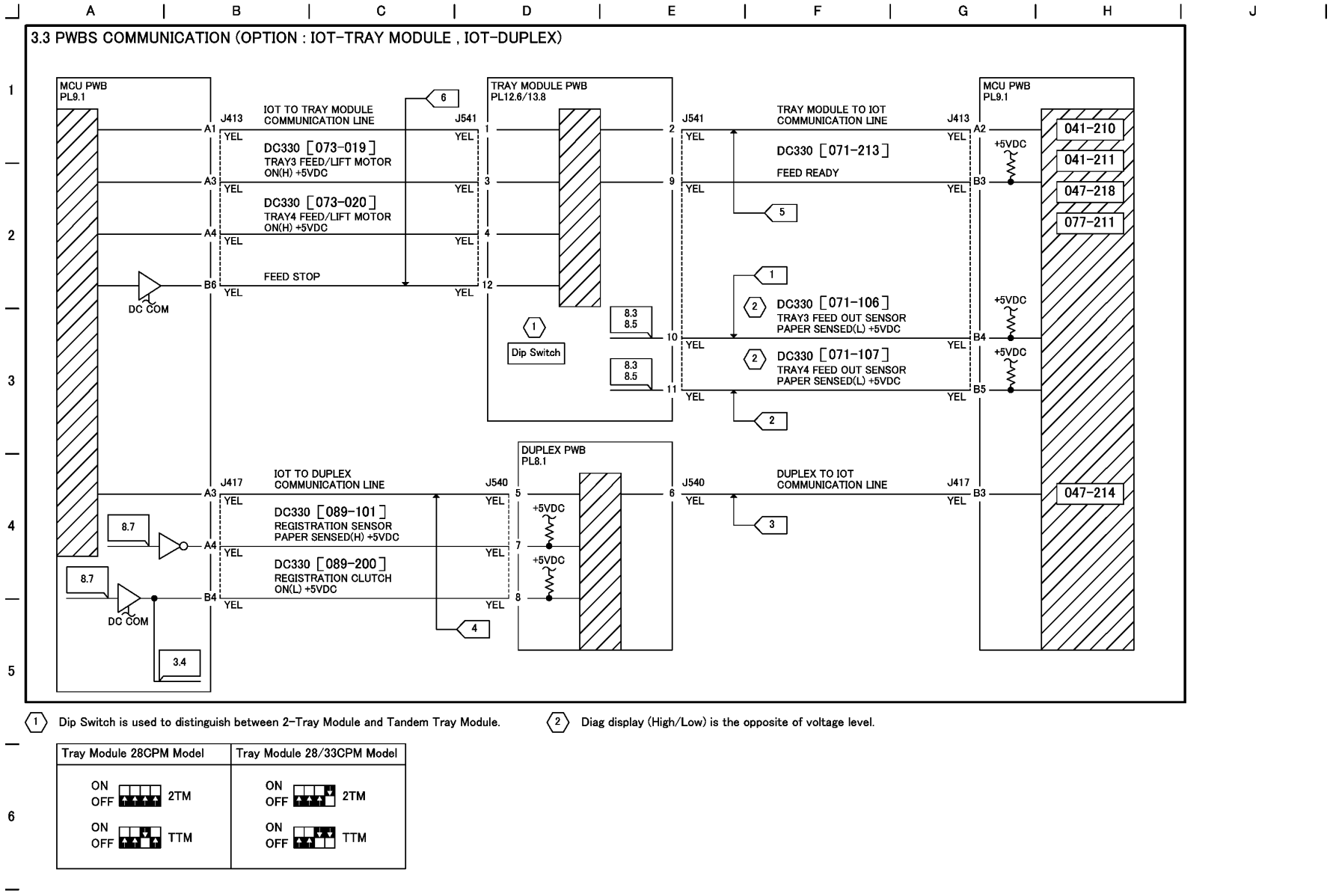


Figure 2 PWBS COMMUNICATION(ESS-UI) (j0tp90302)



(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.

j0tp90303

Figure 3 PWBS COMMUNICATION (OPTION:IOT-TRAY MODULE, IOT-DUPLEX) (j0tp90303)

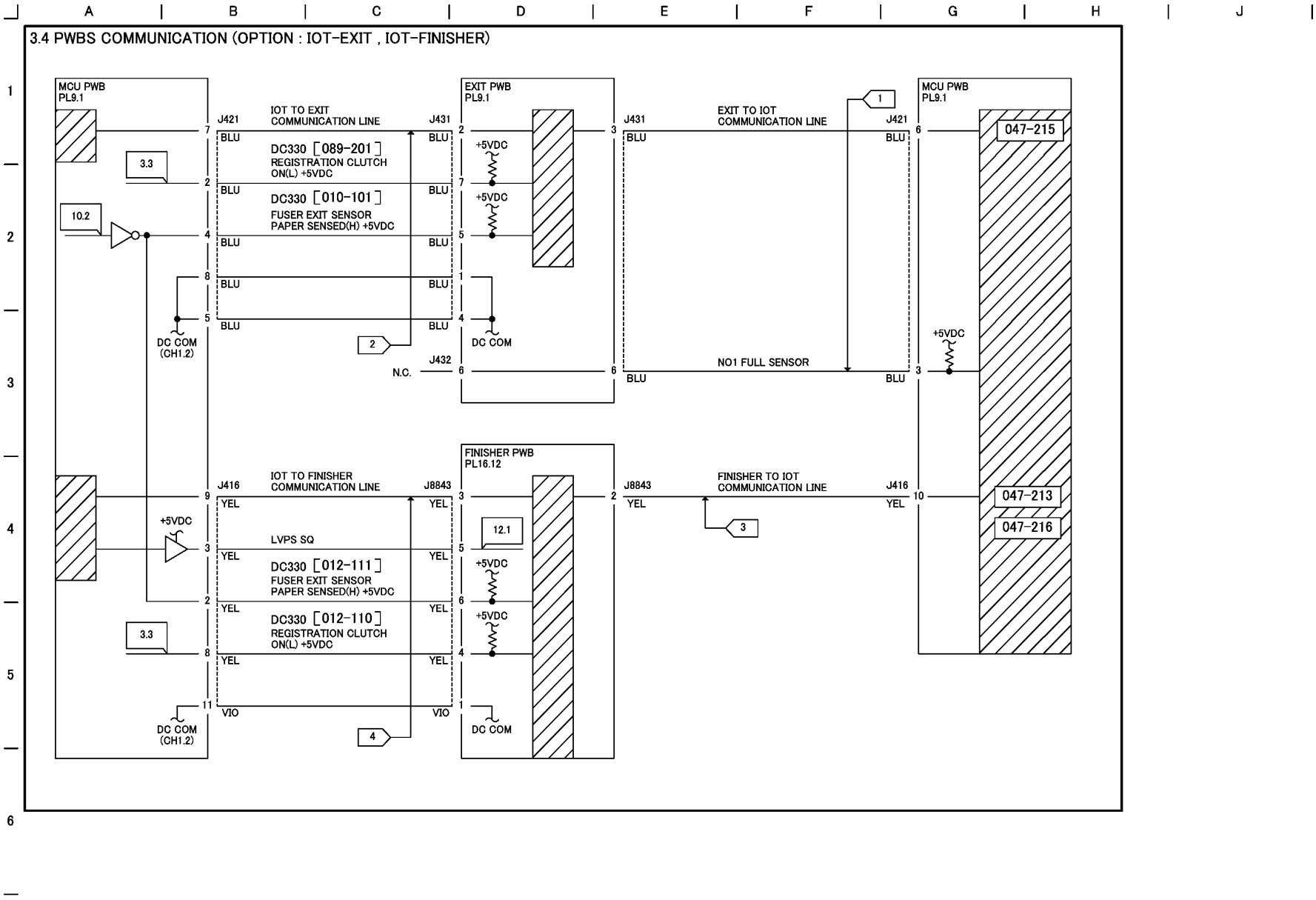


Figure 4 PWBS COMMUNICATION (OPTION:IOT-EXIT, IOT-FINISHER) (j0tp90304)

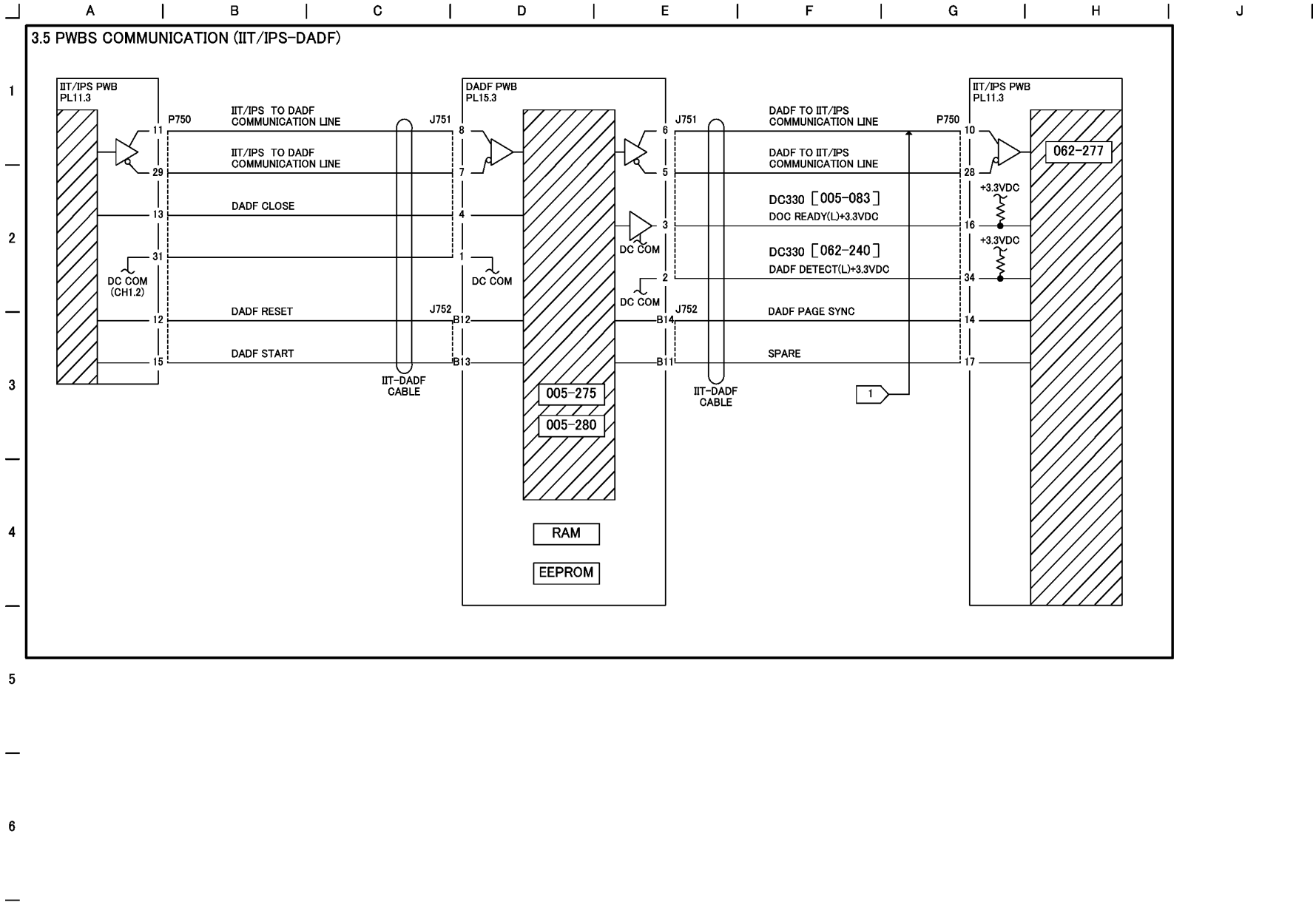


Figure 5 PWBS COMMUNICATION (IIT/IPS-DADF) (j0tp90305)

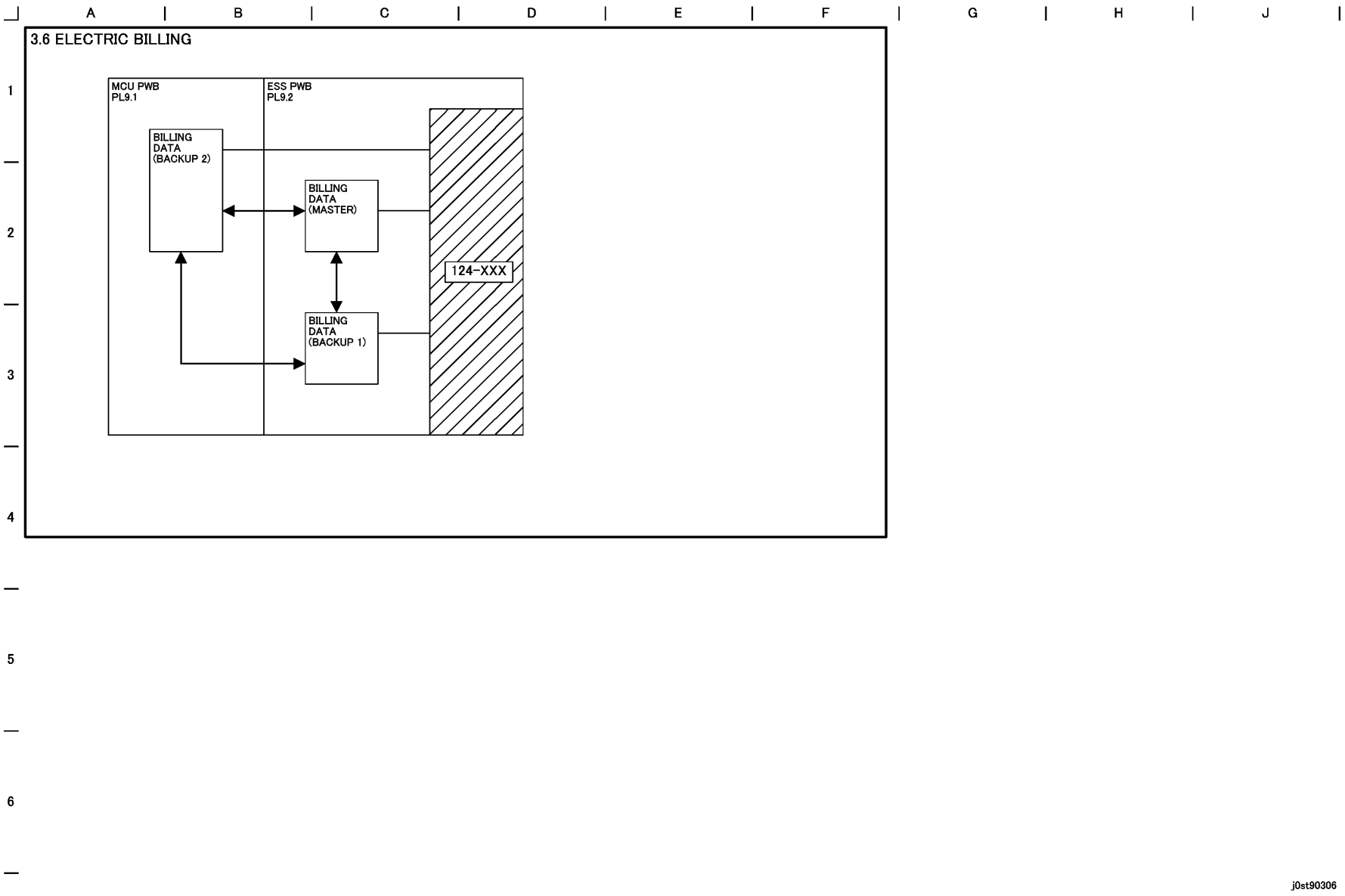


Figure 6 ELECTRIC BILLING (j0st90306)

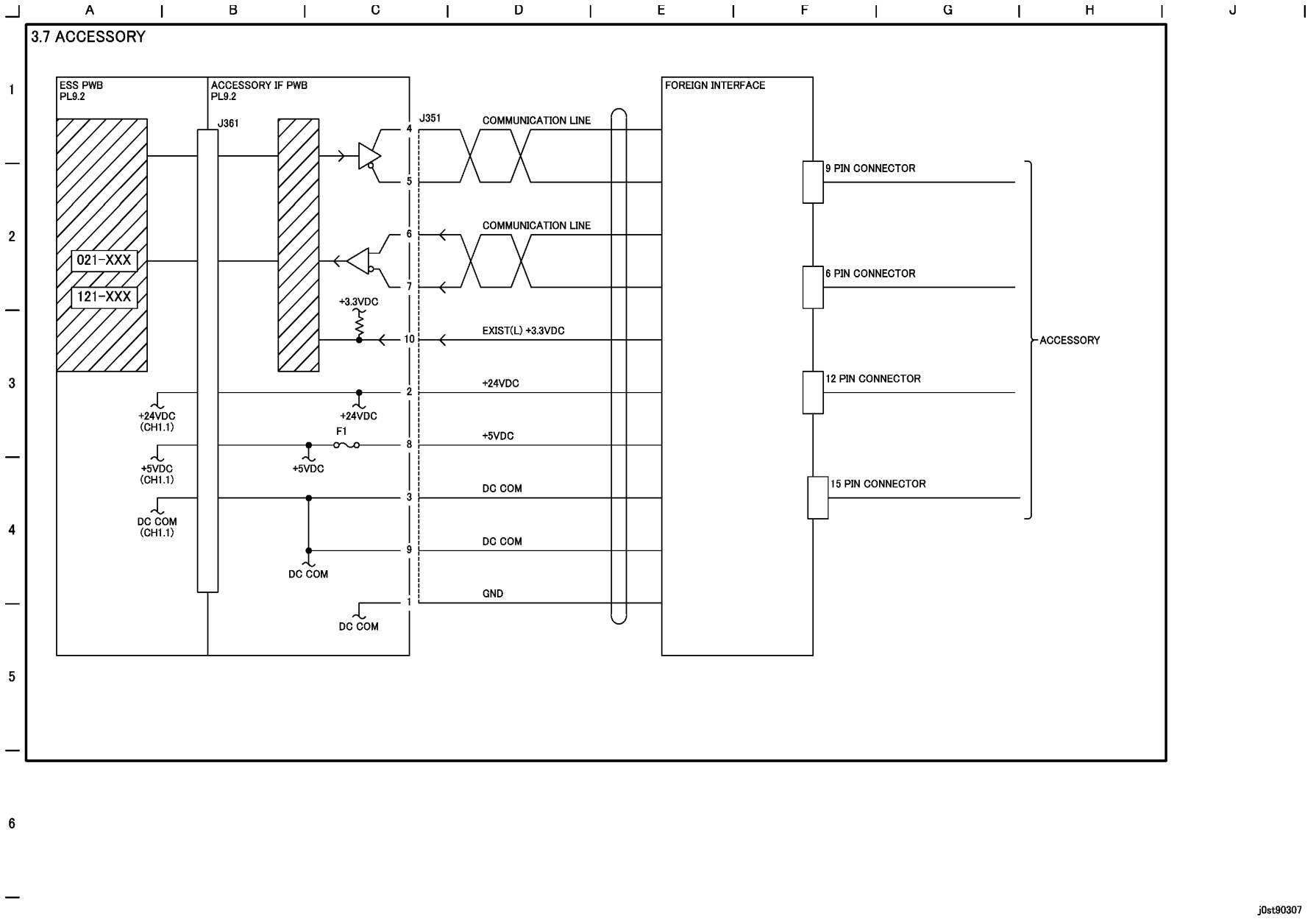


Figure 7 ACCESSORY (j0st90307)

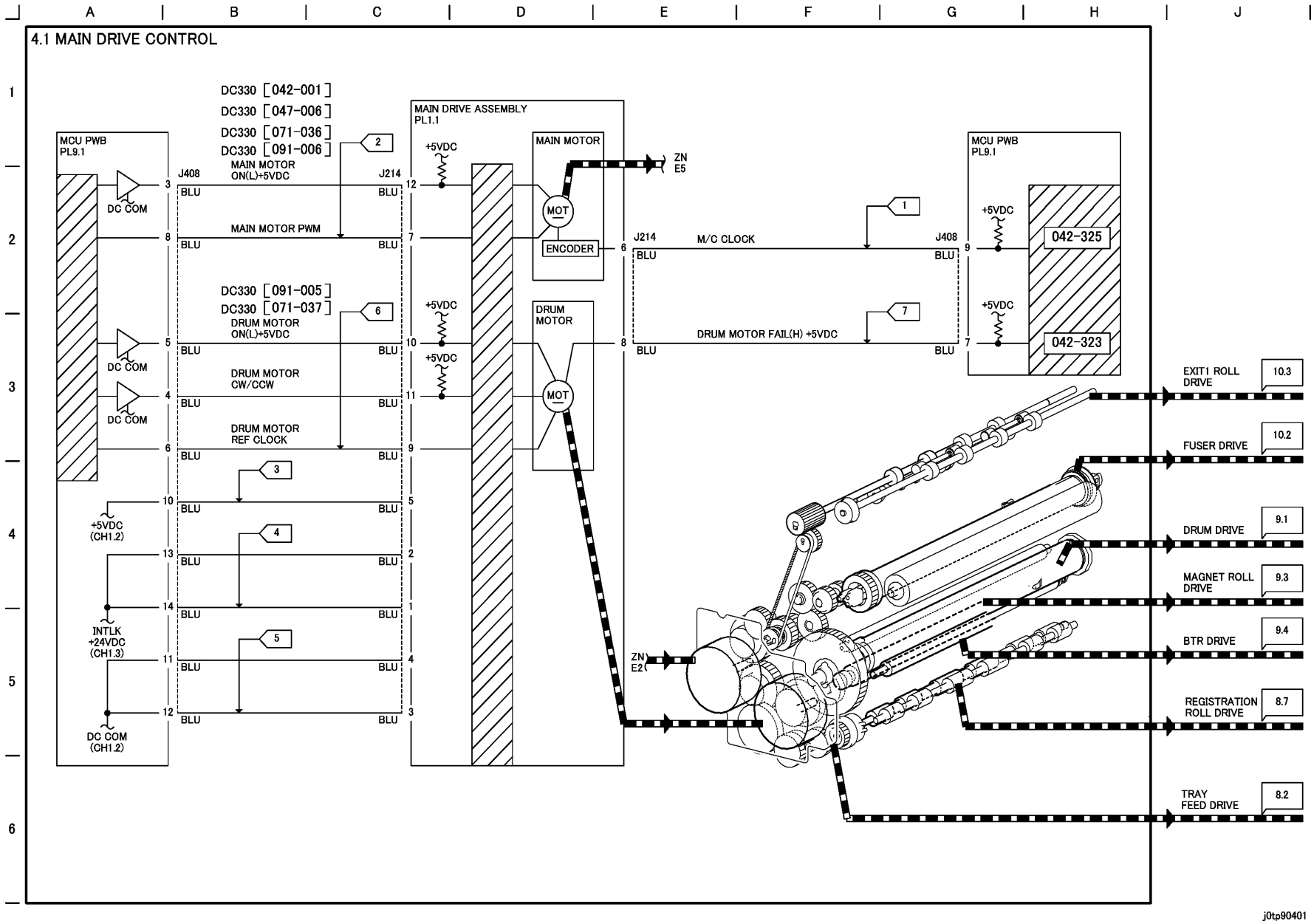
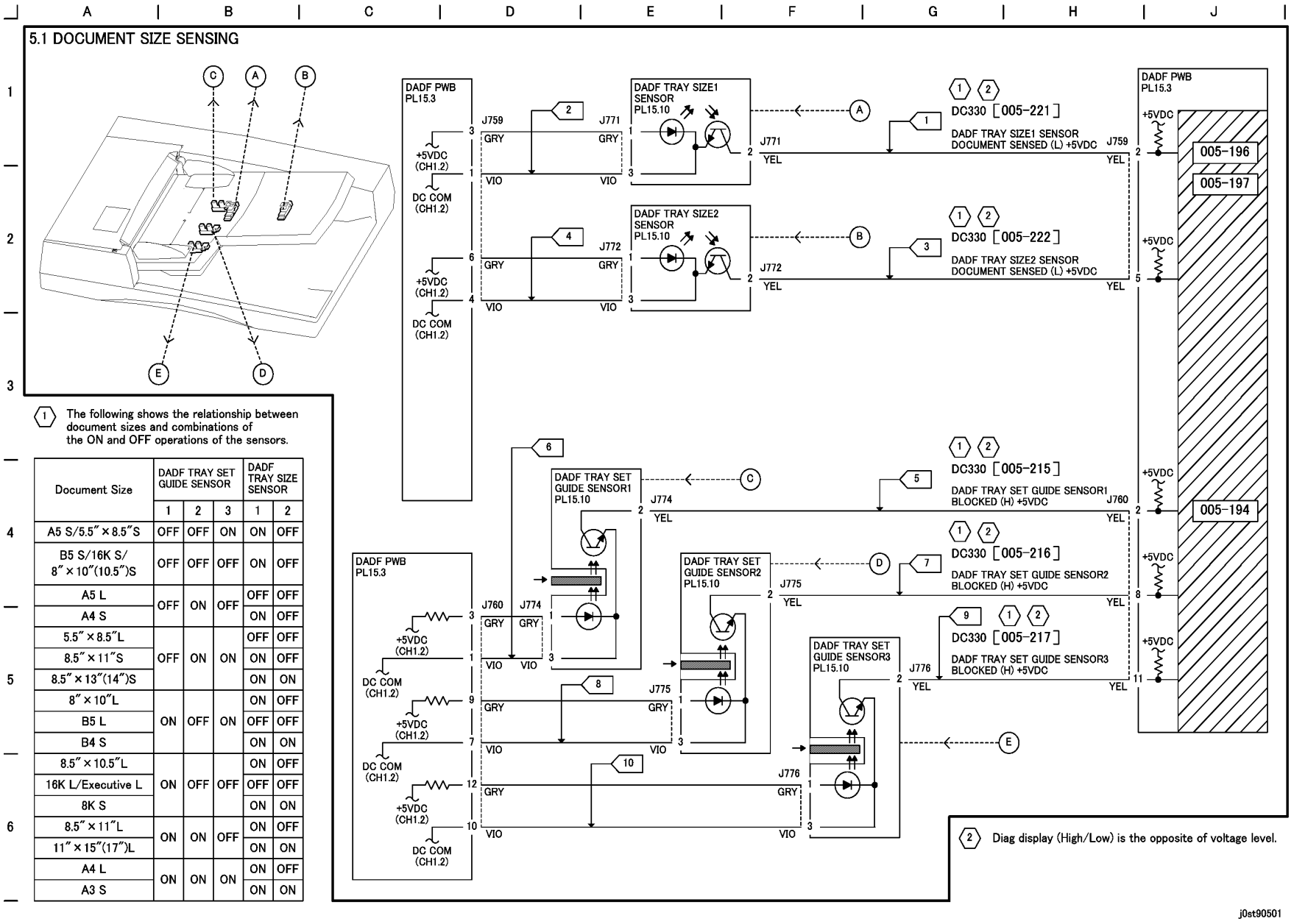


Figure 1 MAIN DRIVE CONTROL (j0tp90401)



Document Size	DADF TRAY SET GUIDE SENSOR			DADF TRAY SIZE SENSOR	
	1	2	3	1	2
A5 S/5.5″ × 8.5″S	OFF	OFF	ON	ON	OFF
B5 S/16K S/ 8″ × 10″(10.5″)S	OFF	OFF	OFF	ON	OFF
A5 L	OFF	ON	OFF	OFF	OFF
A4 S				ON	OFF
5.5″ × 8.5″L	OFF	ON	ON	OFF	OFF
8.5″ × 11″S				ON	OFF
8.5″ × 13″(14″)S				ON	ON
8″ × 10″L	ON	OFF	ON	ON	OFF
B5 L				OFF	OFF
B4 S				ON	ON
8.5″ × 10.5″L	ON	OFF	OFF	ON	OFF
16K L/Executive L				OFF	OFF
8K S				ON	ON
8.5″ × 11″L	ON	ON	OFF	ON	OFF
11″ × 15″(17″)L				ON	ON
A4 L	ON	ON	ON	ON	OFF
A3 S				ON	ON

Figure 1 DOCUMENT SIZE SENSING (j0st90501)

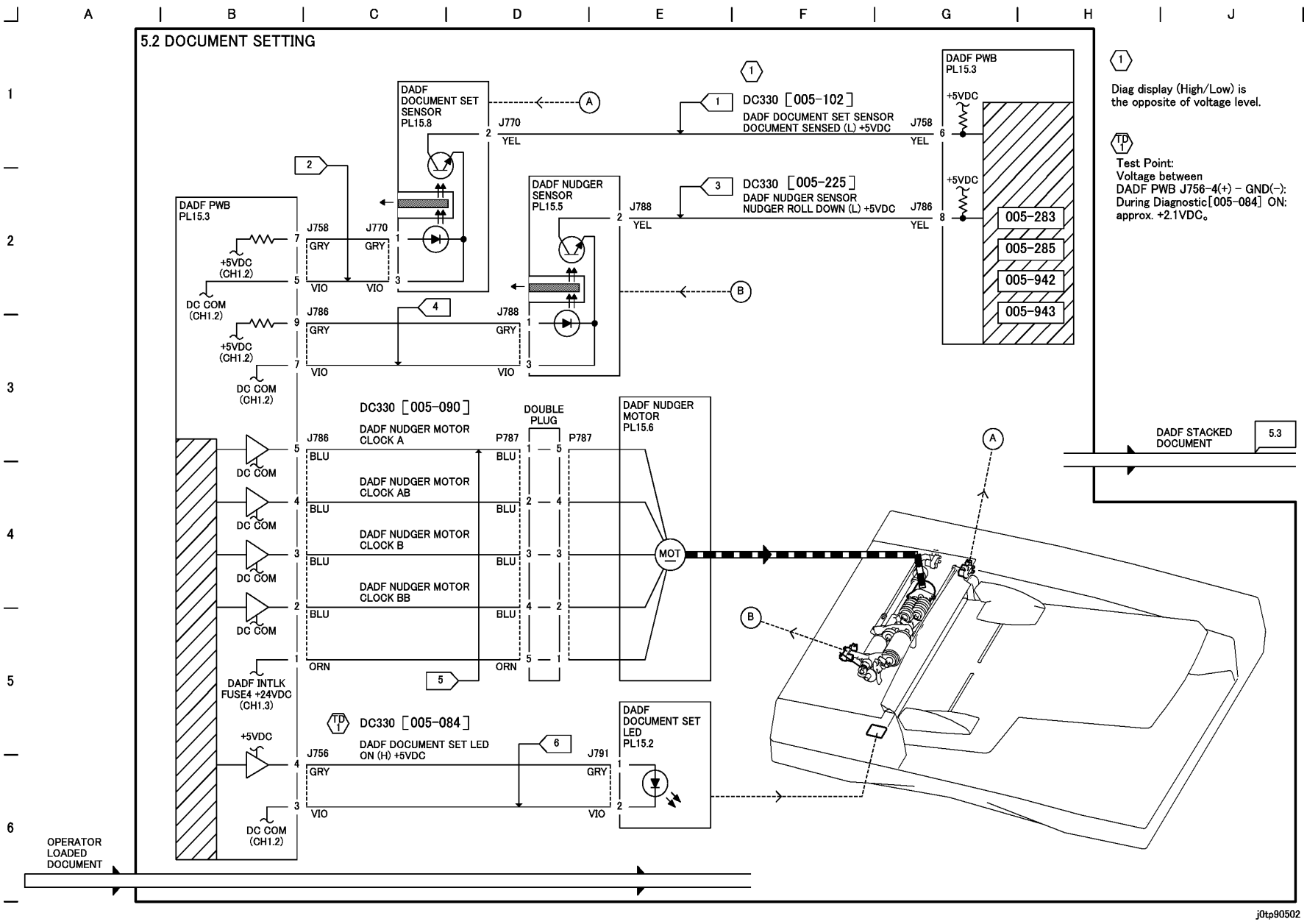


Figure 2 DOCUMENT SETTING (j0tp90502)

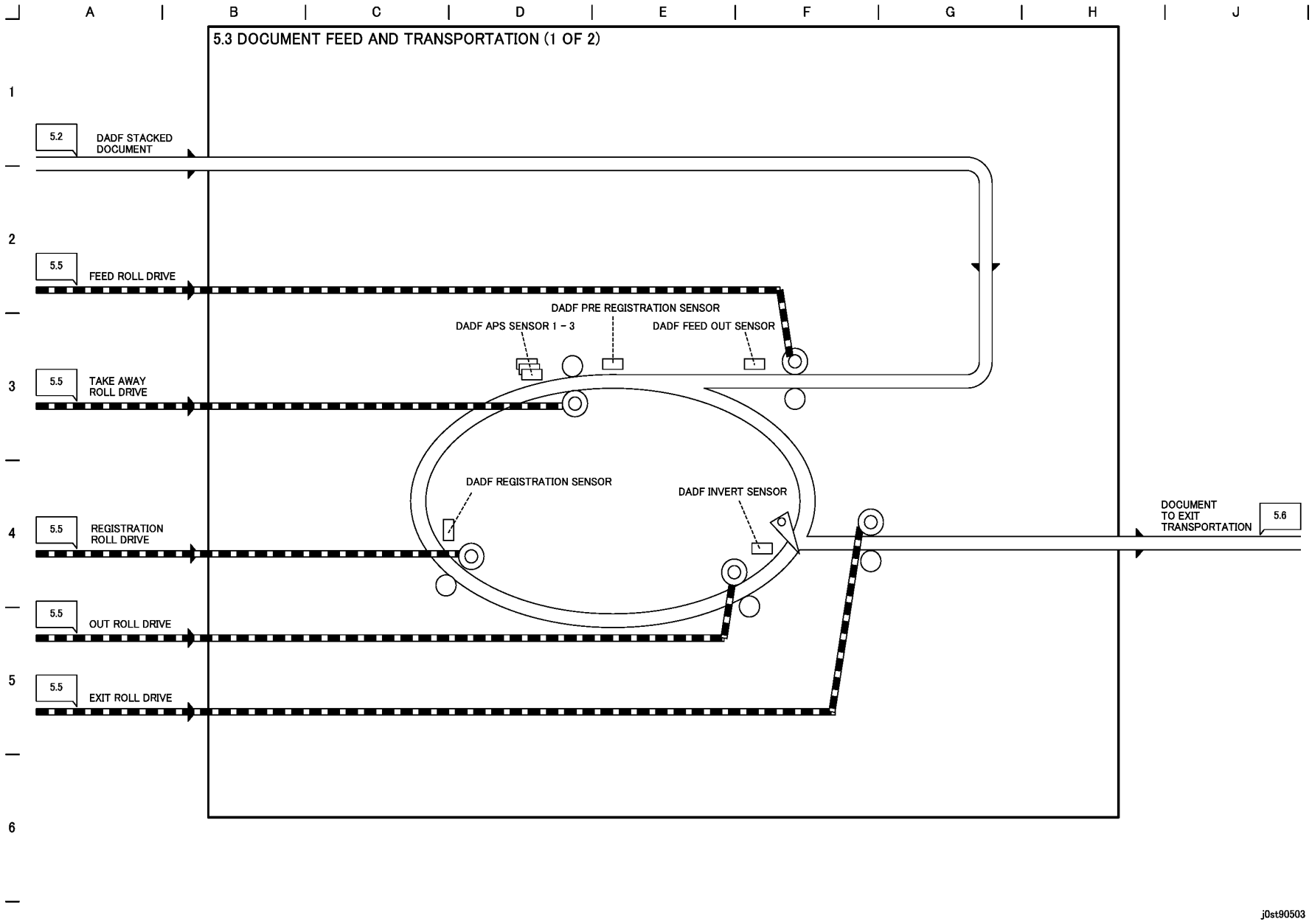


Figure 3 DOCUMENT FEED AND TRANSPORTATION (1 OF 2) (j0st90503)

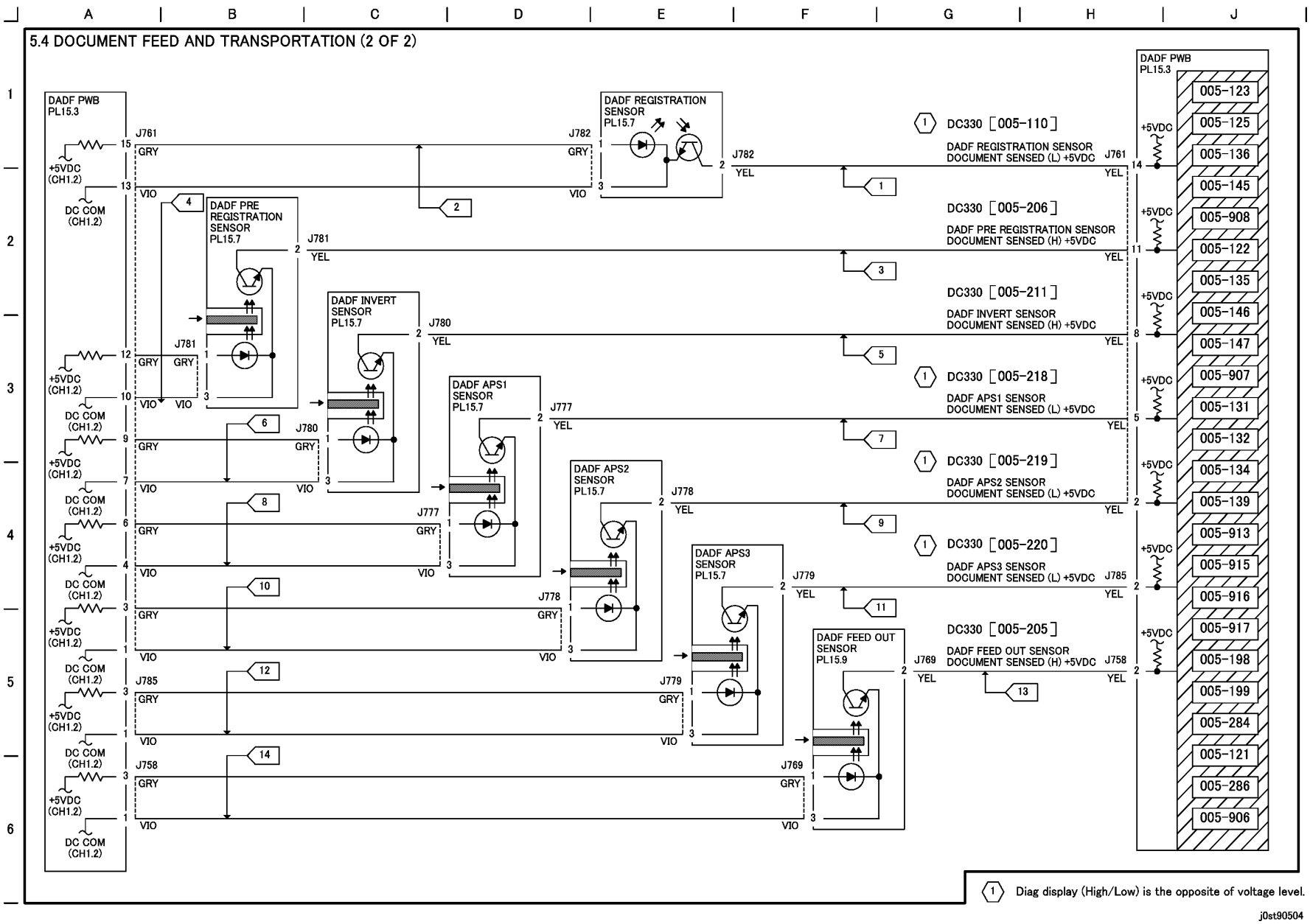


Figure 4 DOCUMENT FEED AND TRANSPORTATION (2 OF 2) (j0st90504)

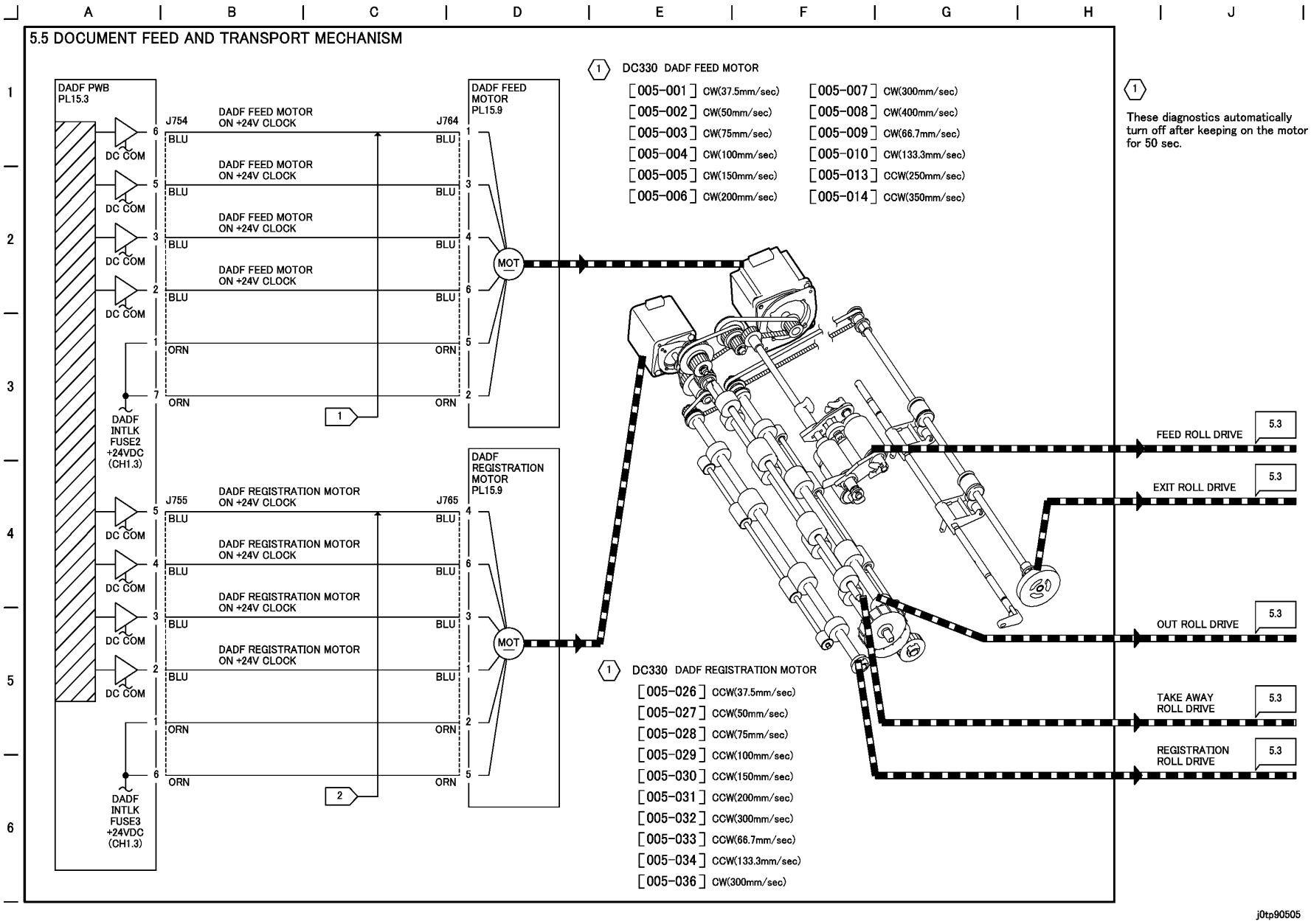


Figure 5 DOCUMENT FEED AND TRANSPORT MECHANISN (j0tp90505)

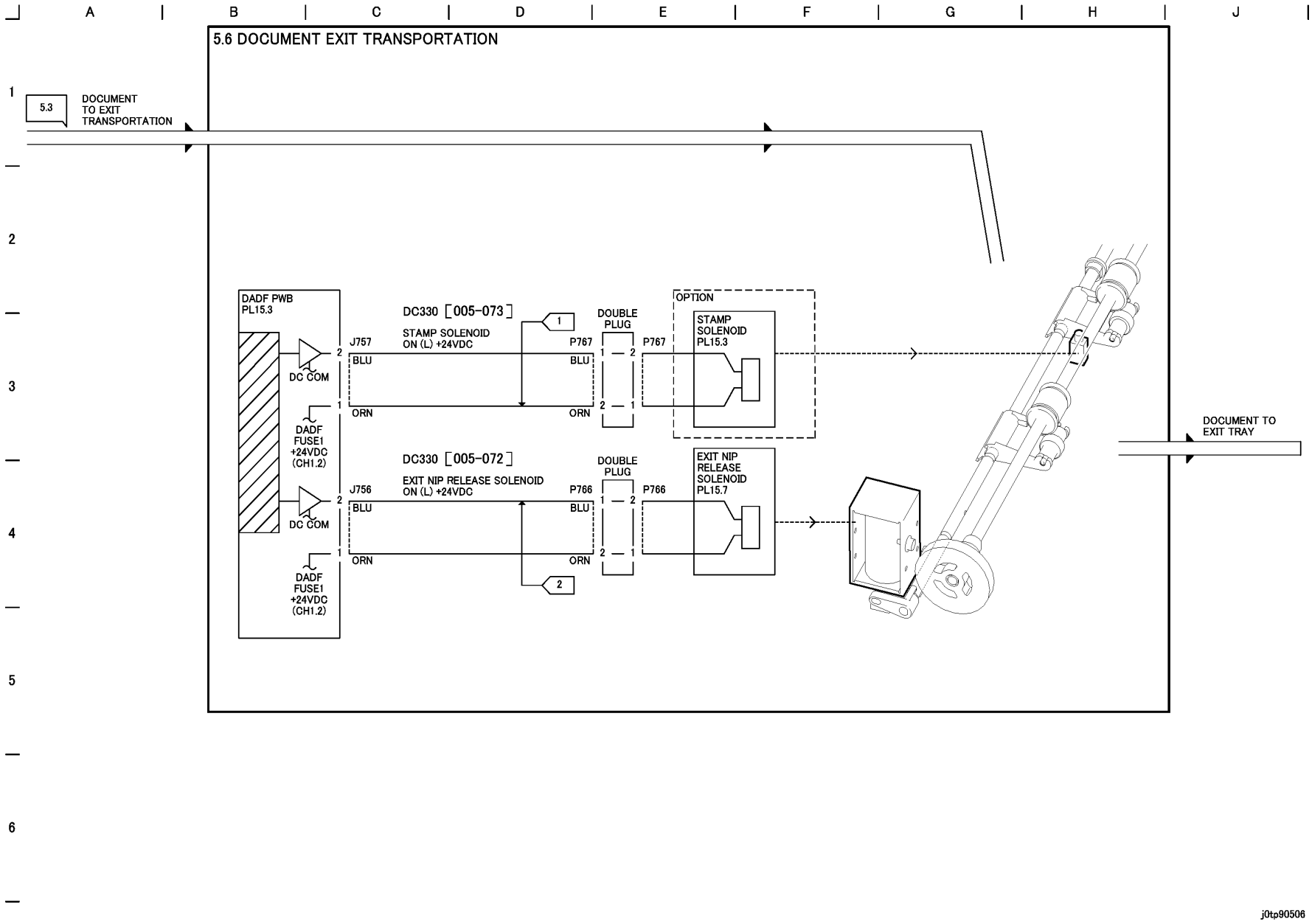


Figure 6 DOCUMENT EXIT TRANSPORTATION (j0tp90506)

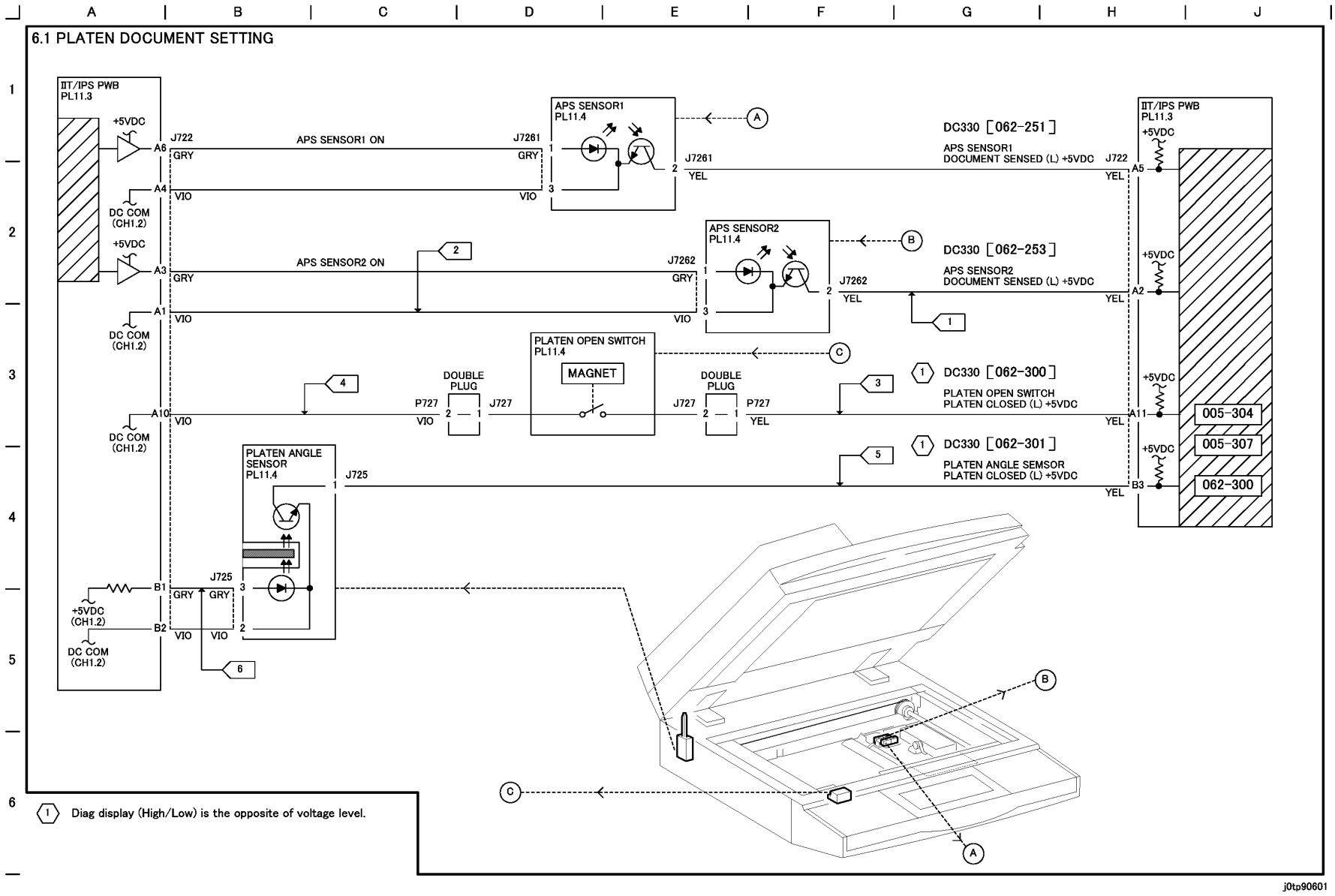


Figure 1 PLATEN DOCUMENT SETTING (j0tp90601)

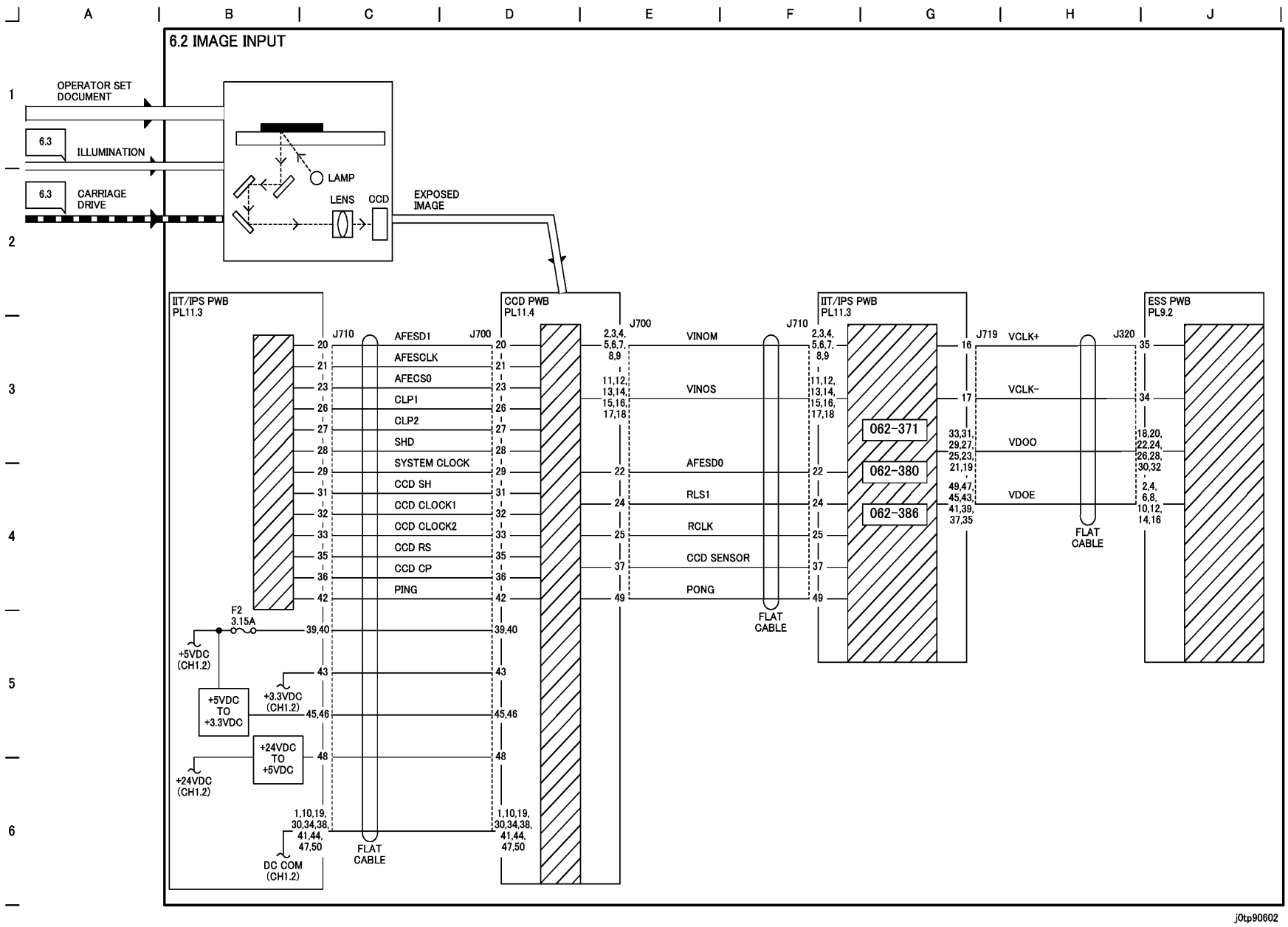


Figure 2 IMAGE INPUT (j0tp90602)

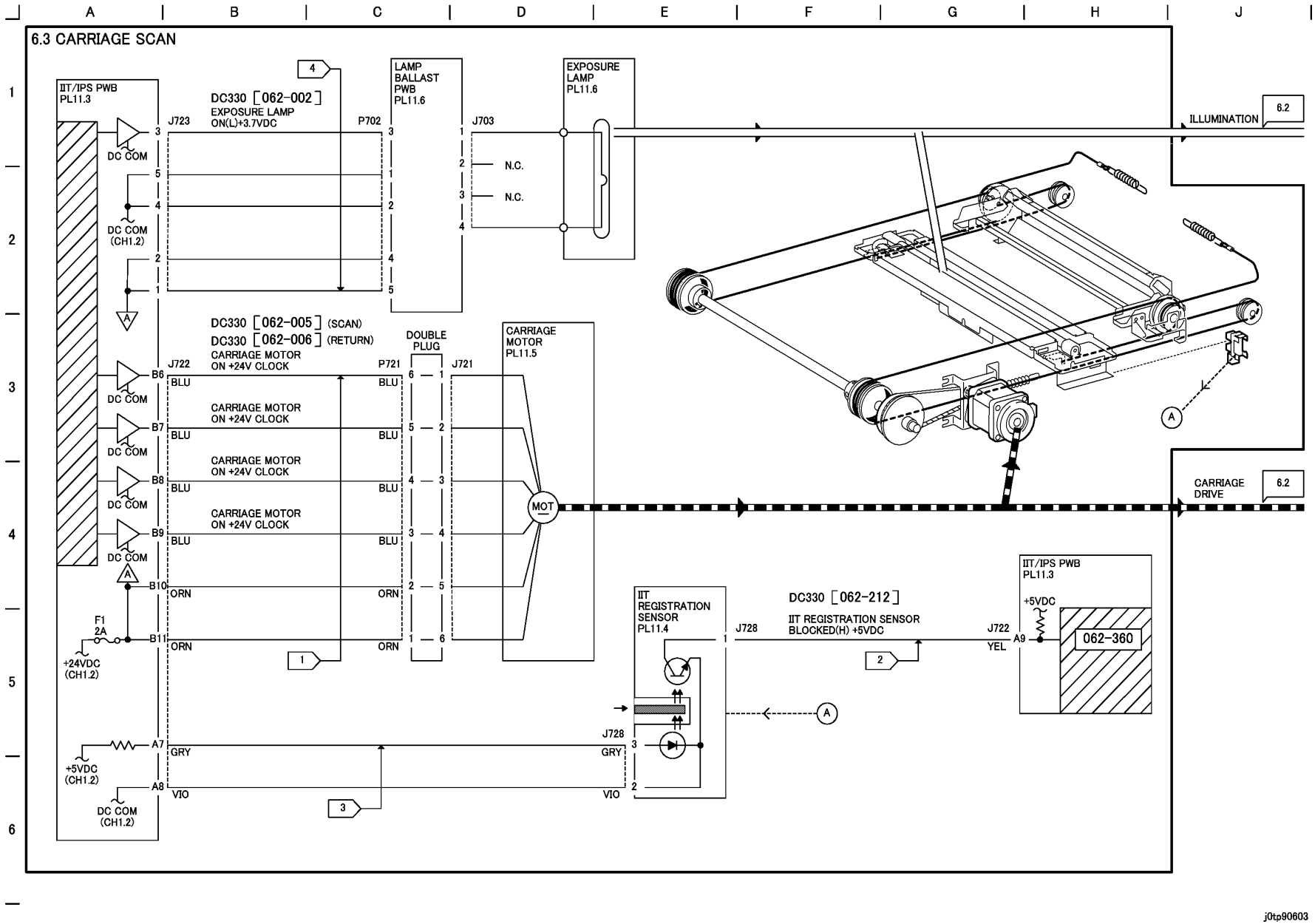


Figure 3 CARRIAGE SCAN (j0tp90603)

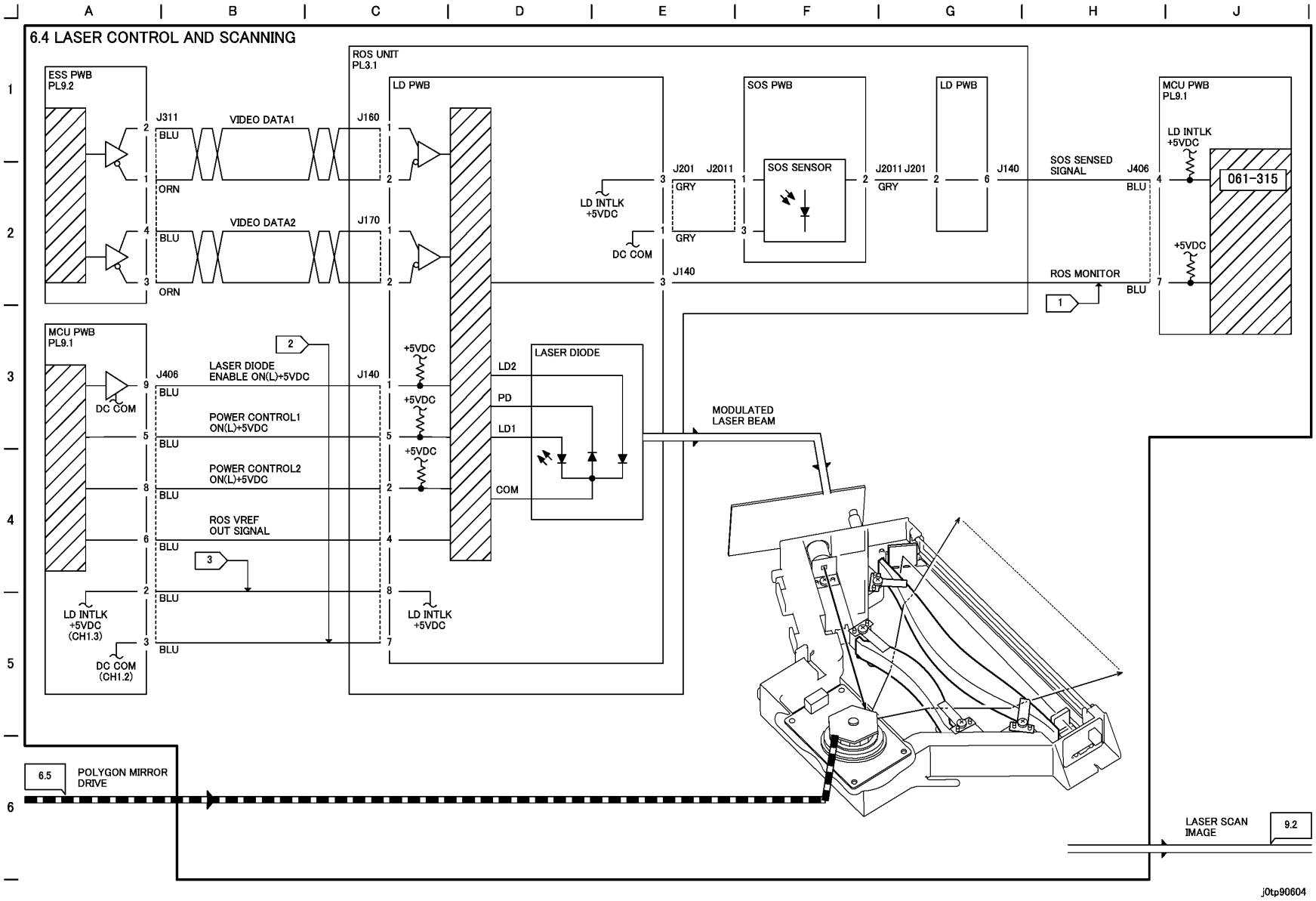


Figure 4 LASER CONTROL AND SCANING (j0tp90604)

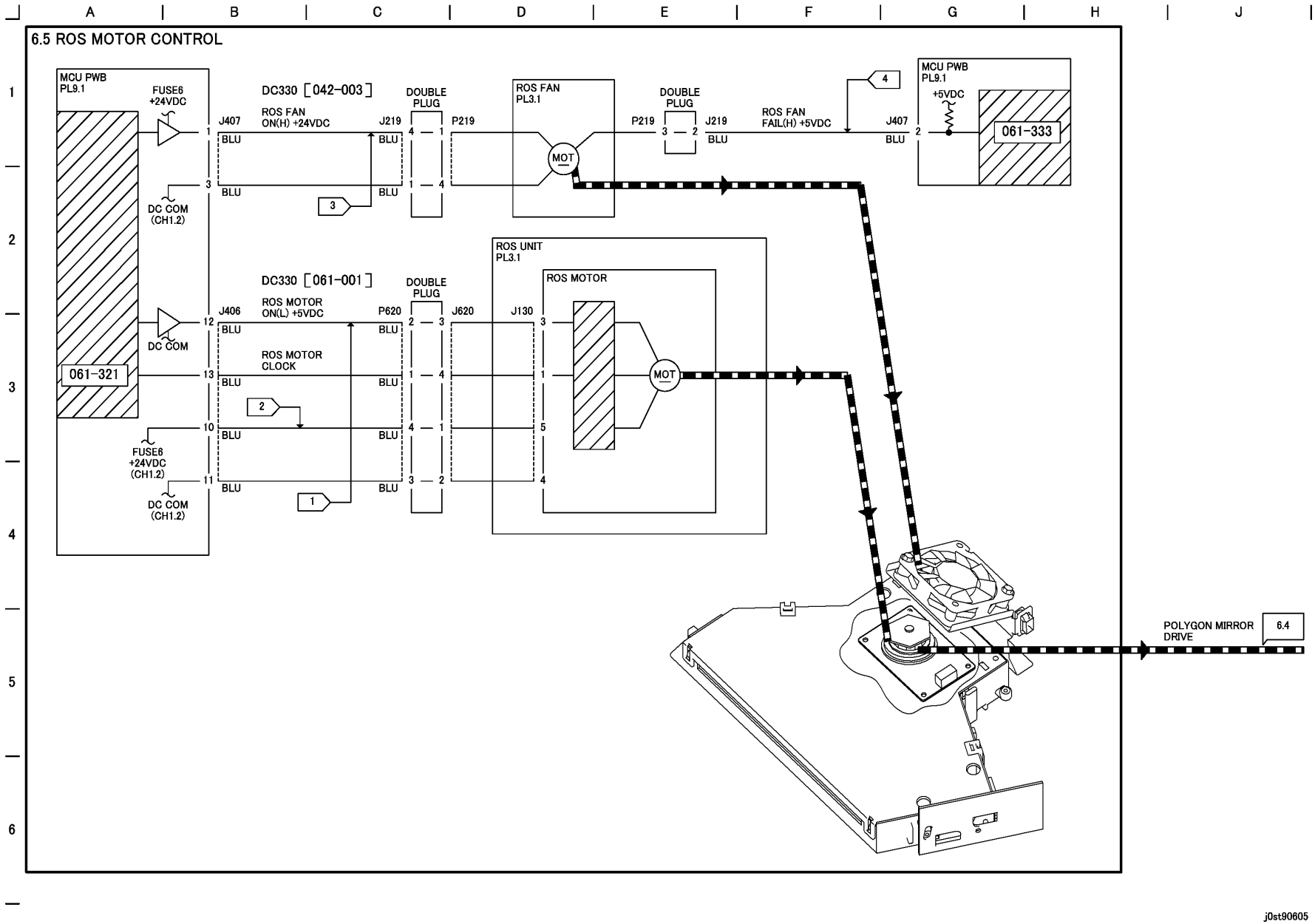
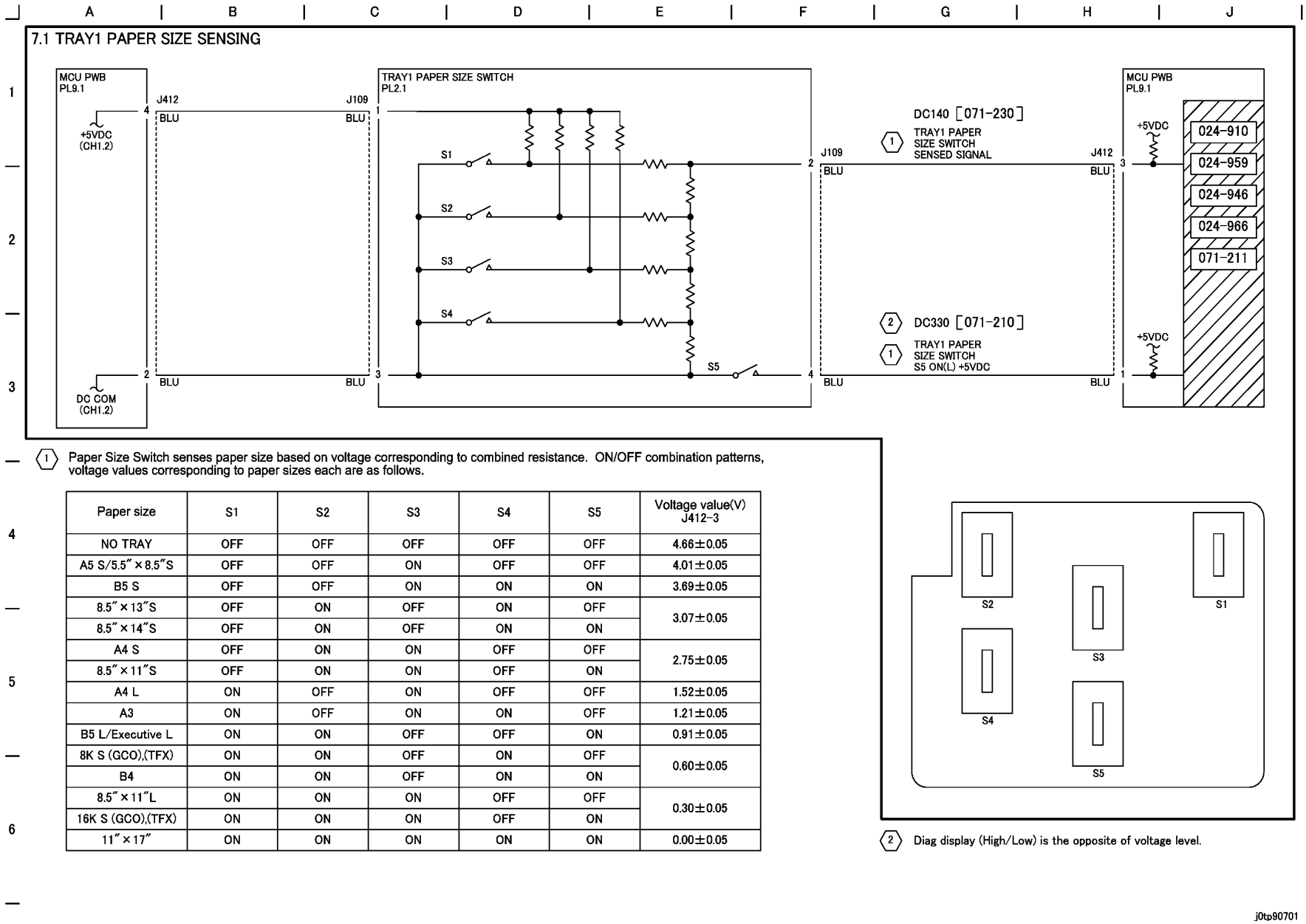


Figure 5 ROS MOTOR CONTROL (j0st90605)



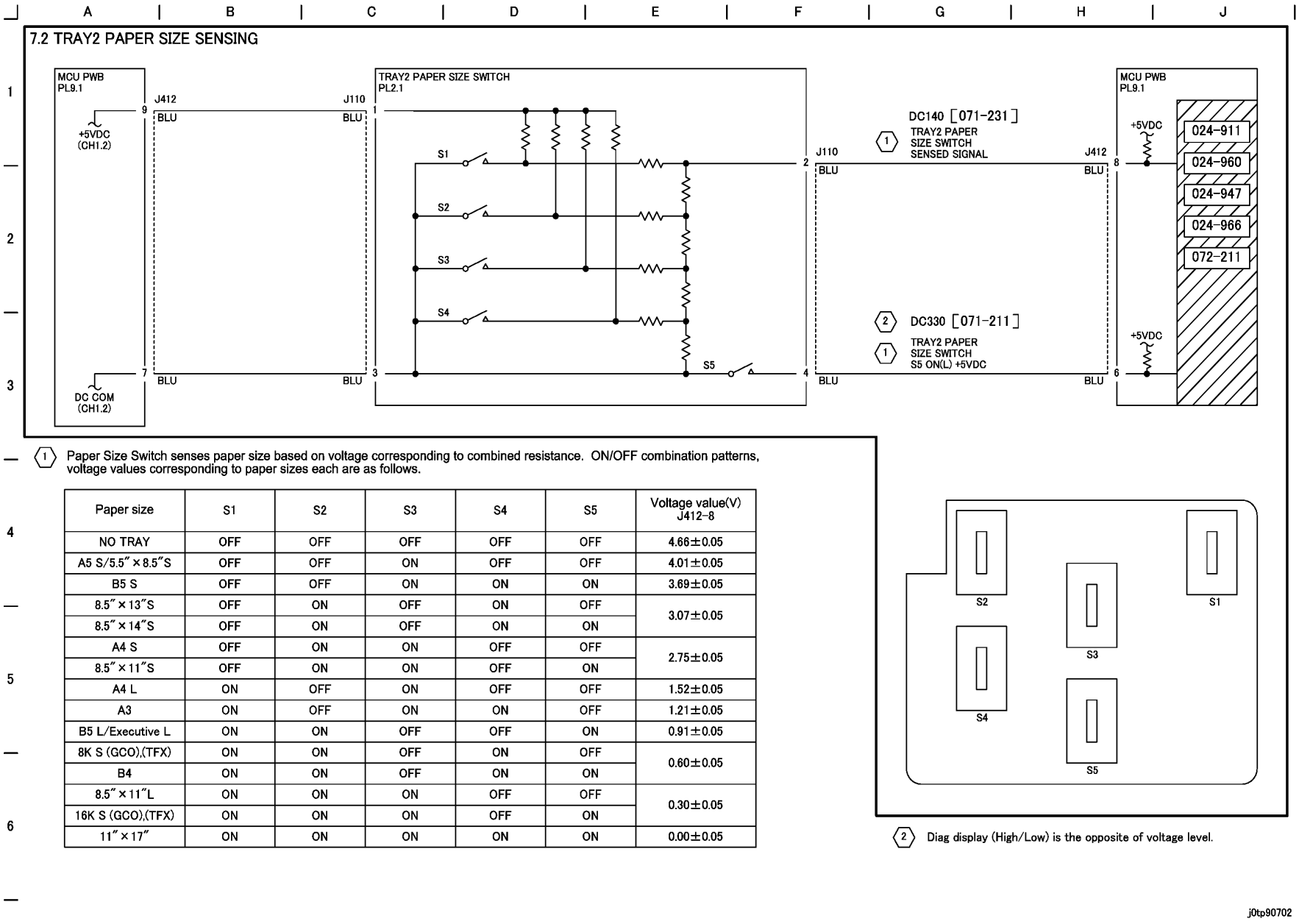
(1) Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

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.

j0tp90701

Figure 1 TRAY1 PAPER SIZE SENSING (j0tp90701)



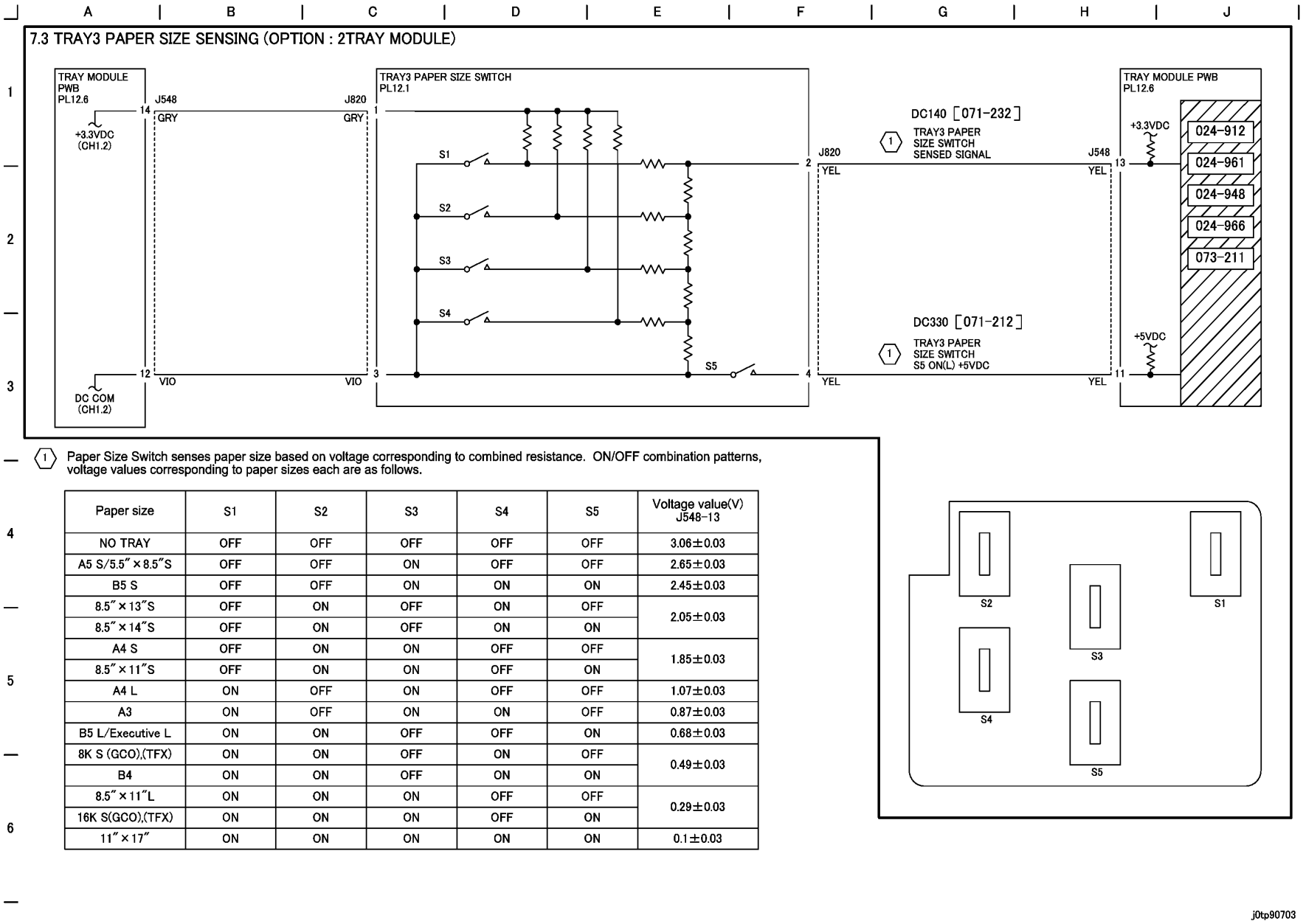
1 Paper Size Switch senses paper size based on voltage corresponding to combined resistance. ON/OFF combination patterns, voltage values corresponding to paper sizes each are as follows.

Paper size	S1	S2	S3	S4	S5	Voltage value(V) J412-8
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.

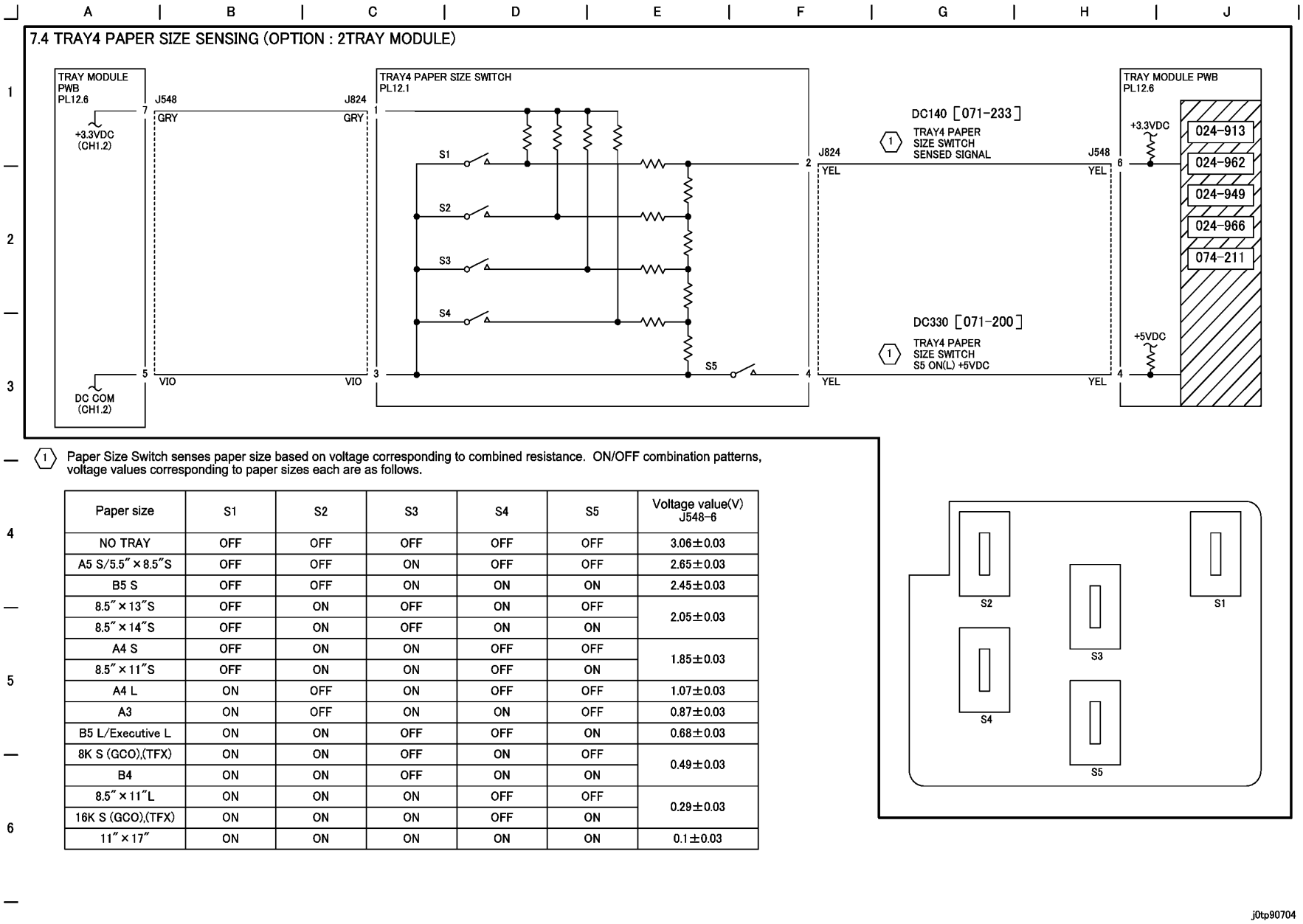
j0tp90702

Figure 2 TRAY2 PAPER SIZE SENSING (j0tp90702)



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

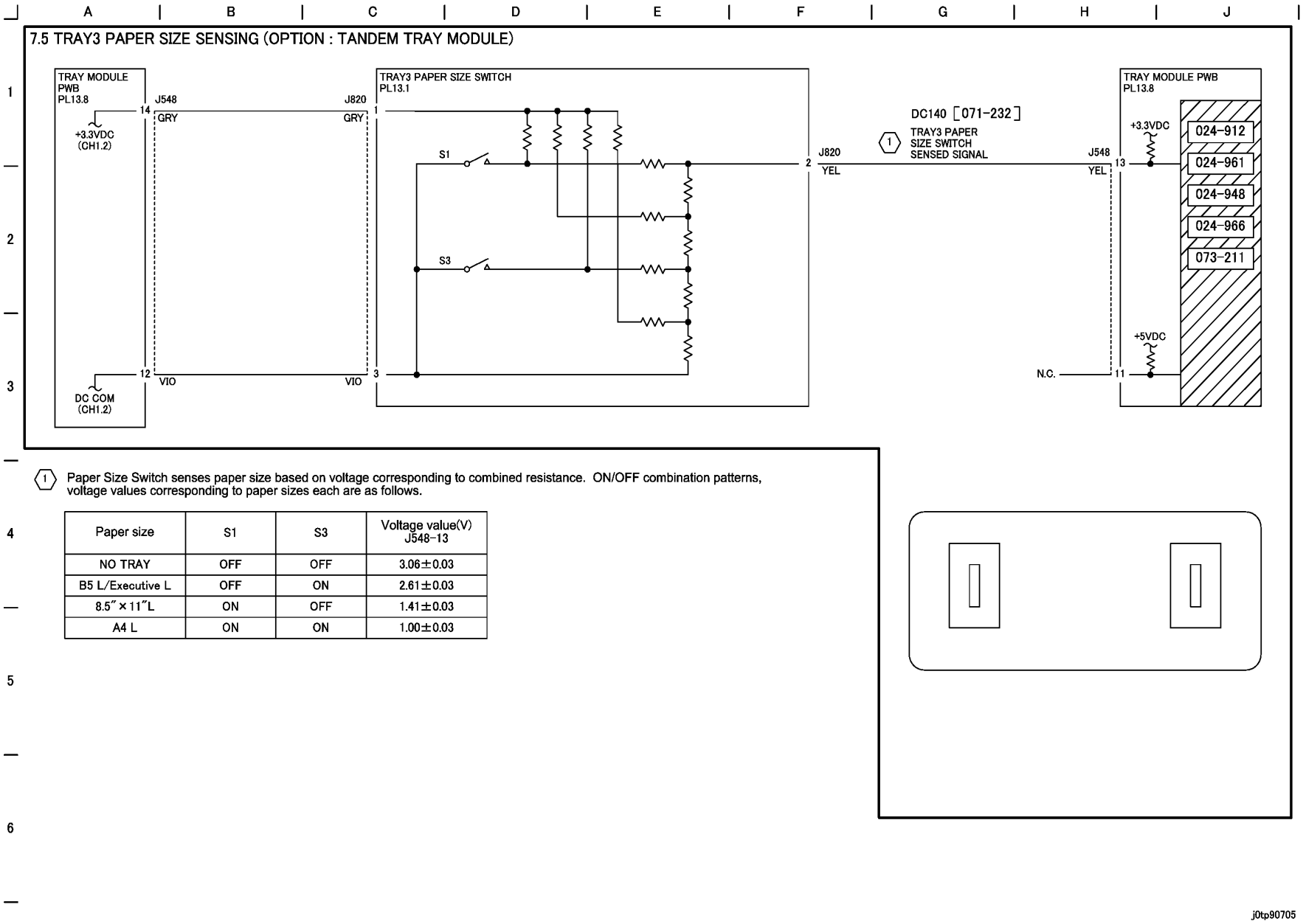
Figure 3 TRAY3 PAPER SIZE SENSING (OPTION:2TRAY MODULE) (j0tp90703)



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.

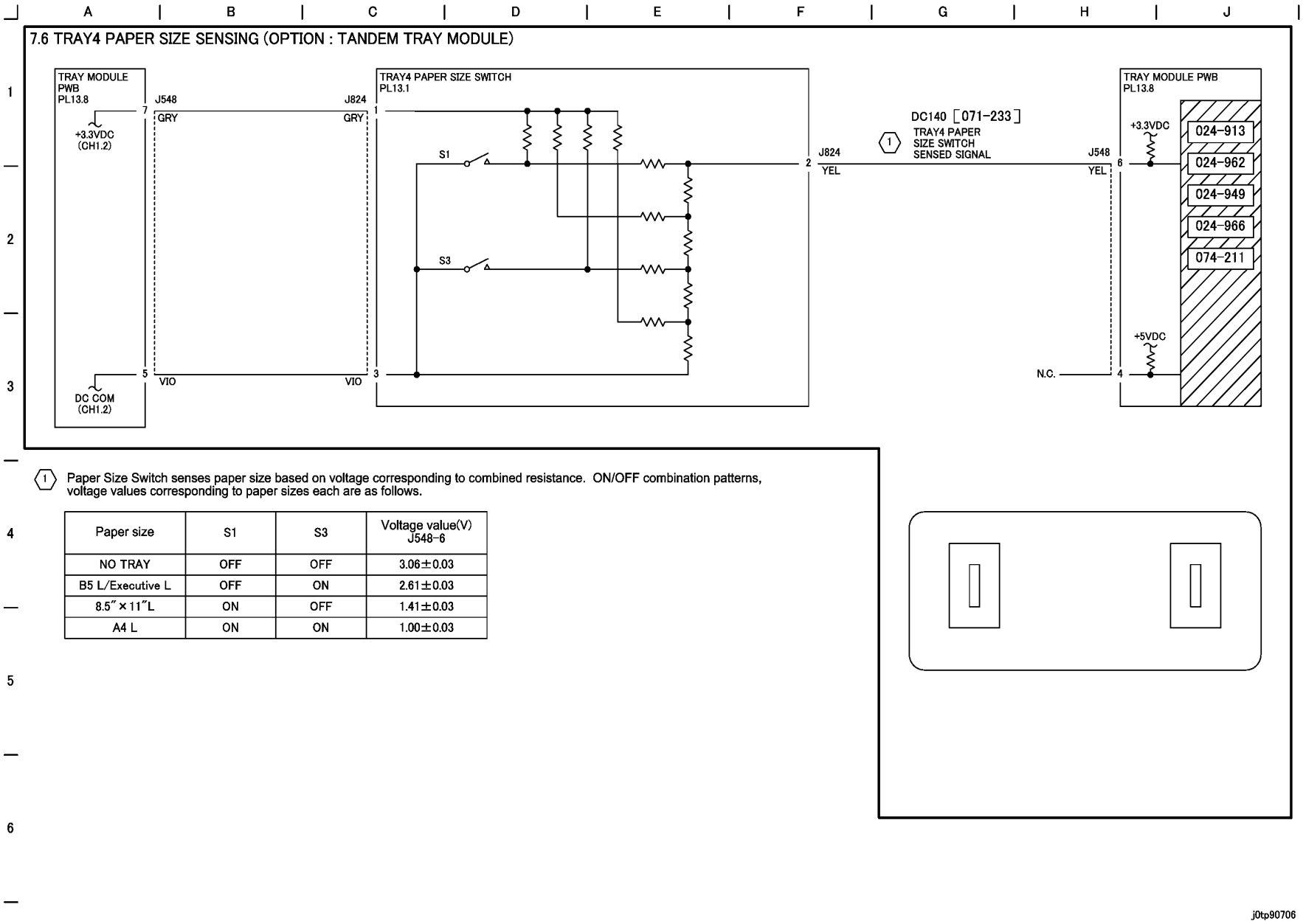
Paper size	S1	S2	S3	S4	S5	Voltage value(V) J548-6
NO TRAY	OFF	OFF	OFF	OFF	OFF	3.06±0.03
A5 S/5.5″×8.5″S	OFF	OFF	ON	OFF	OFF	2.65±0.03
B5 S	OFF	OFF	ON	ON	ON	2.45±0.03
8.5″×13″S	OFF	ON	OFF	ON	OFF	2.05±0.03
8.5″×14″S	OFF	ON	OFF	ON	ON	
A4 S	OFF	ON	ON	OFF	OFF	1.85±0.03
8.5″×11″S	OFF	ON	ON	OFF	ON	
A4 L	ON	OFF	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

Figure 4 TRAY4 PAPER SIZE SENSING (OPTION:2TRAY MODULE) (j0tp90704)



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″×11″L	ON	OFF	1.41±0.03
A4 L	ON	ON	1.00±0.03

Figure 5 TRAY3 PAPER SIZE SENSING (OPTION:TANDEM TRAY MODULE) (j0tp90705)



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″×11″L	ON	OFF	1.41±0.03
A4 L	ON	ON	1.00±0.03

Figure 6 TRAY4 PAPER SIZE SENSING (OPTION:TANDEM TRAY MODULE) (j0tp90706)

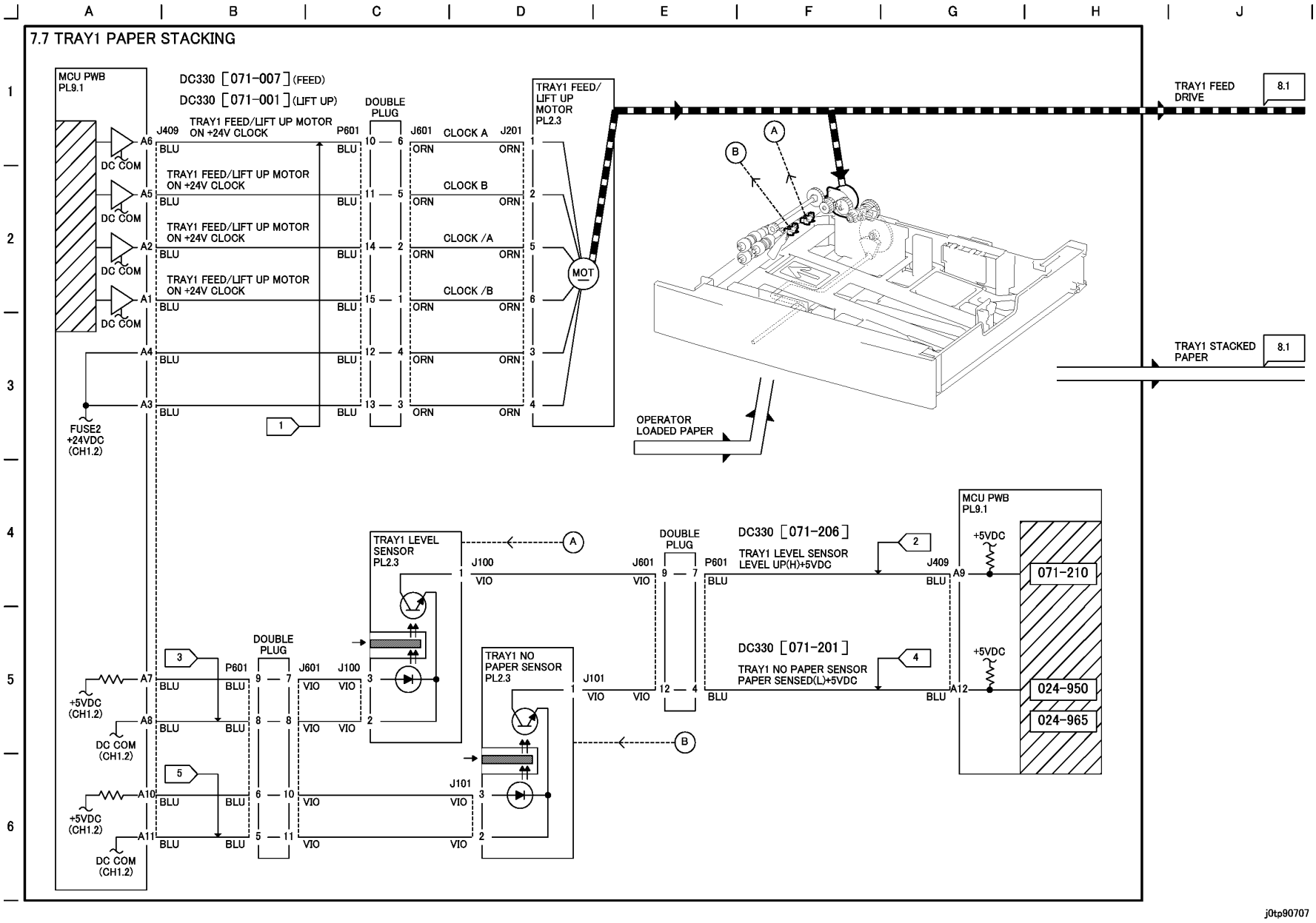


Figure 7 TRAY1 PAPER STACKING (j0tp90707)

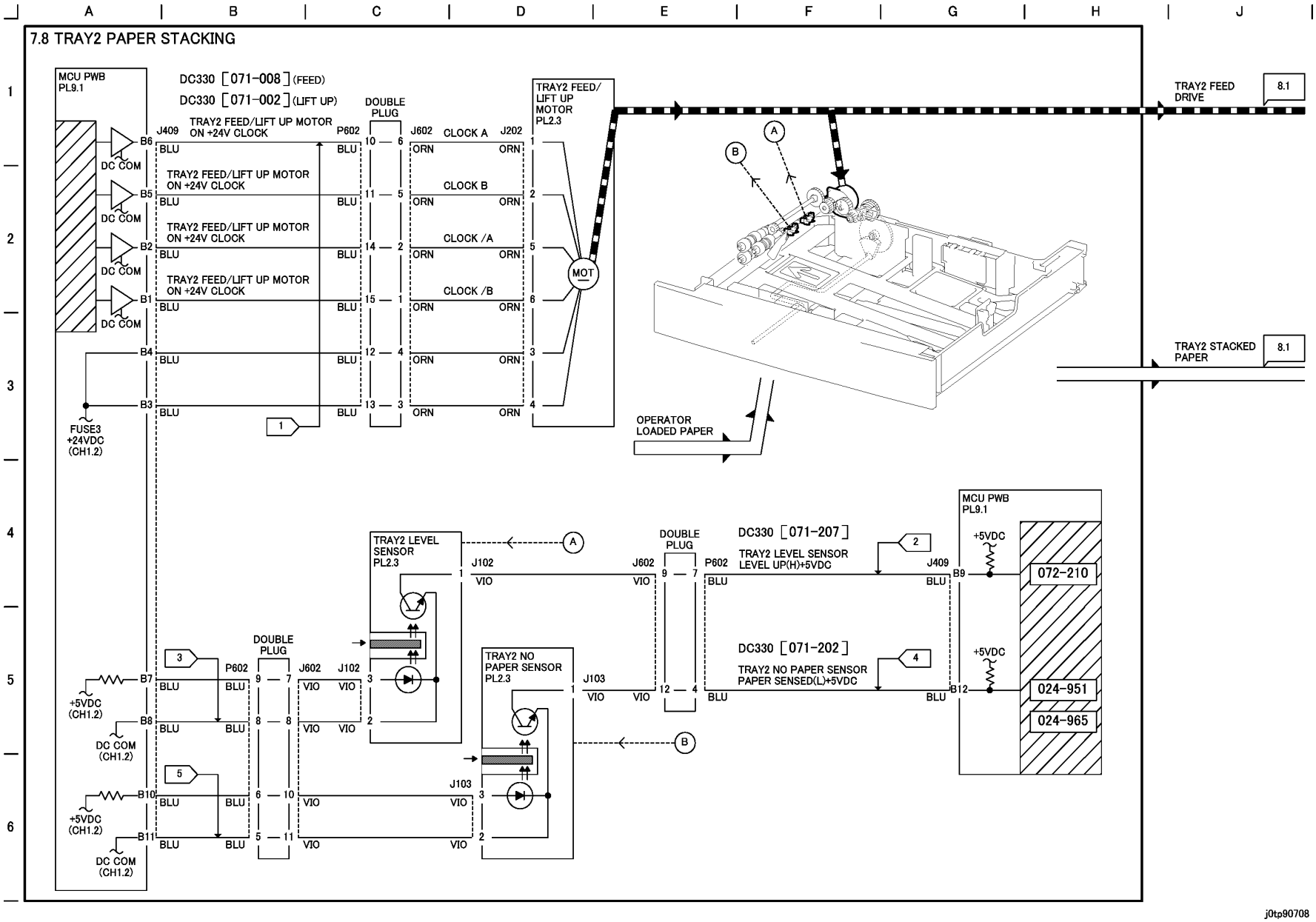


Figure 8 TRAY2 PAPER STACKING (j0tp90708)

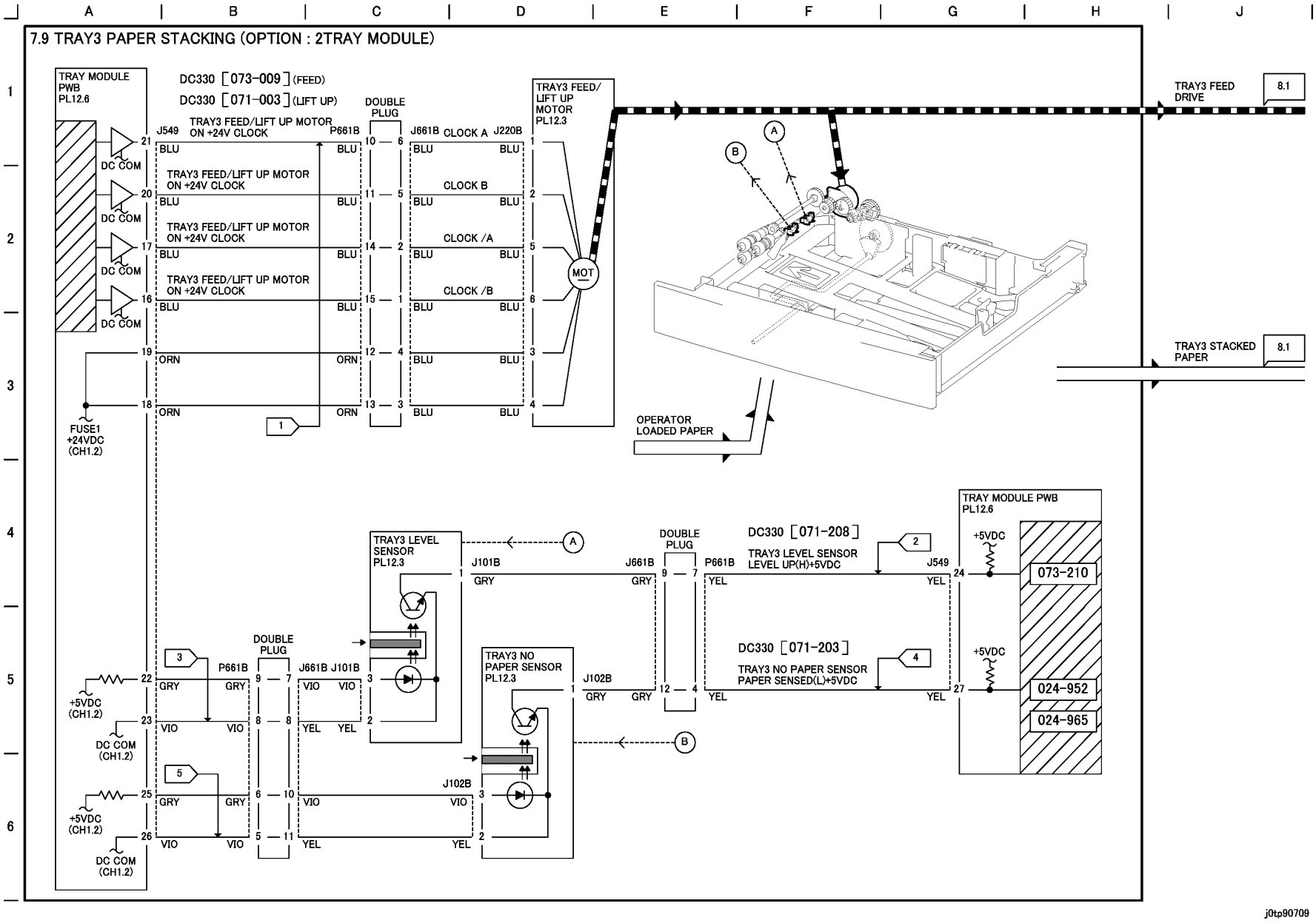


Figure 9 TRAY3 PAPER STACKING (OPTION:2TRAY MODULE) (j0tp90709)

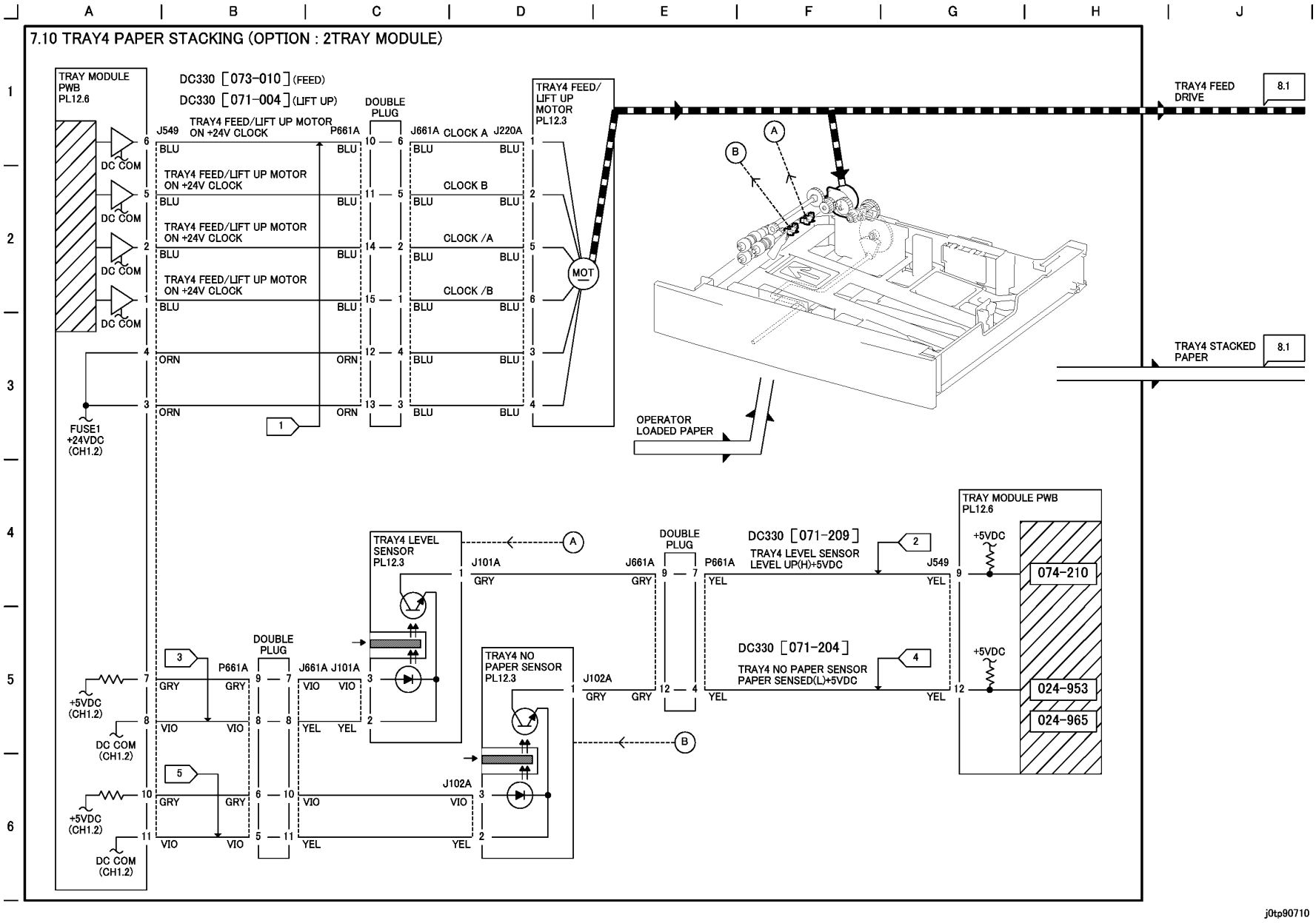


Figure 10 TRAY4 PAPER STACKING (OPTION:2TRAY MODULE) (j0tp90710)

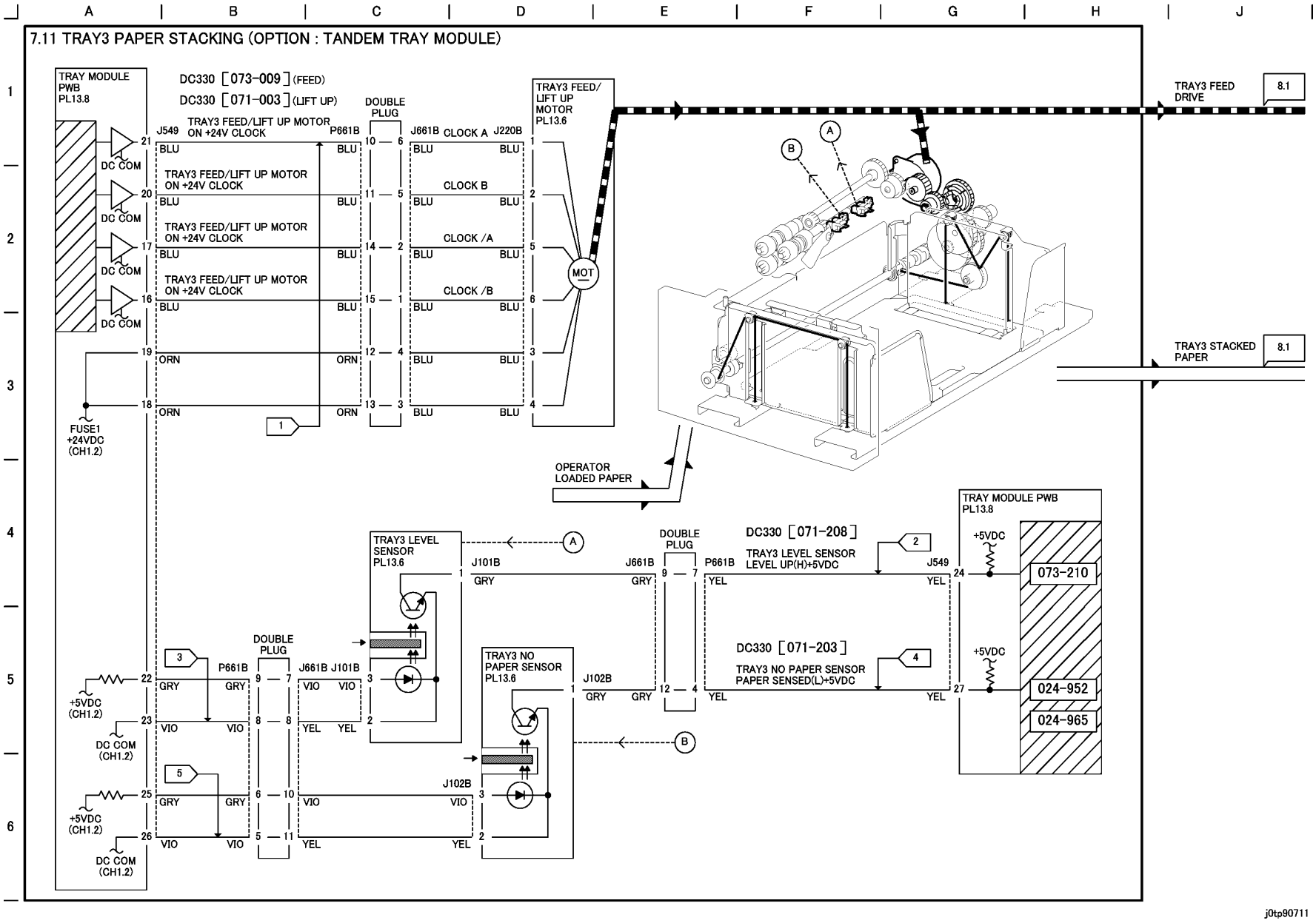


Figure 11 TRAY3 PAPER STACKING (OPTION:TANDEM TRAY MODULE) (j0tp90711)

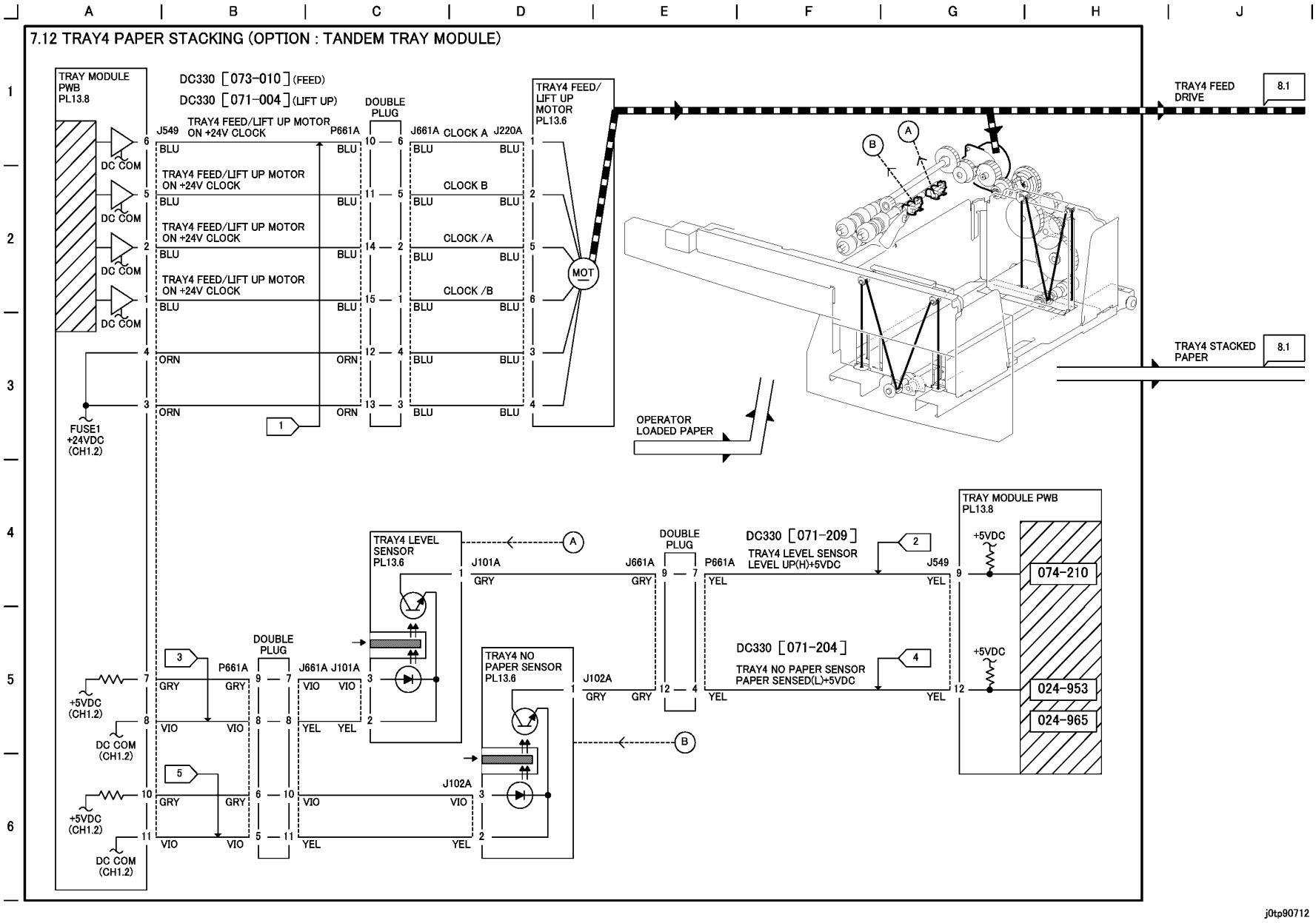
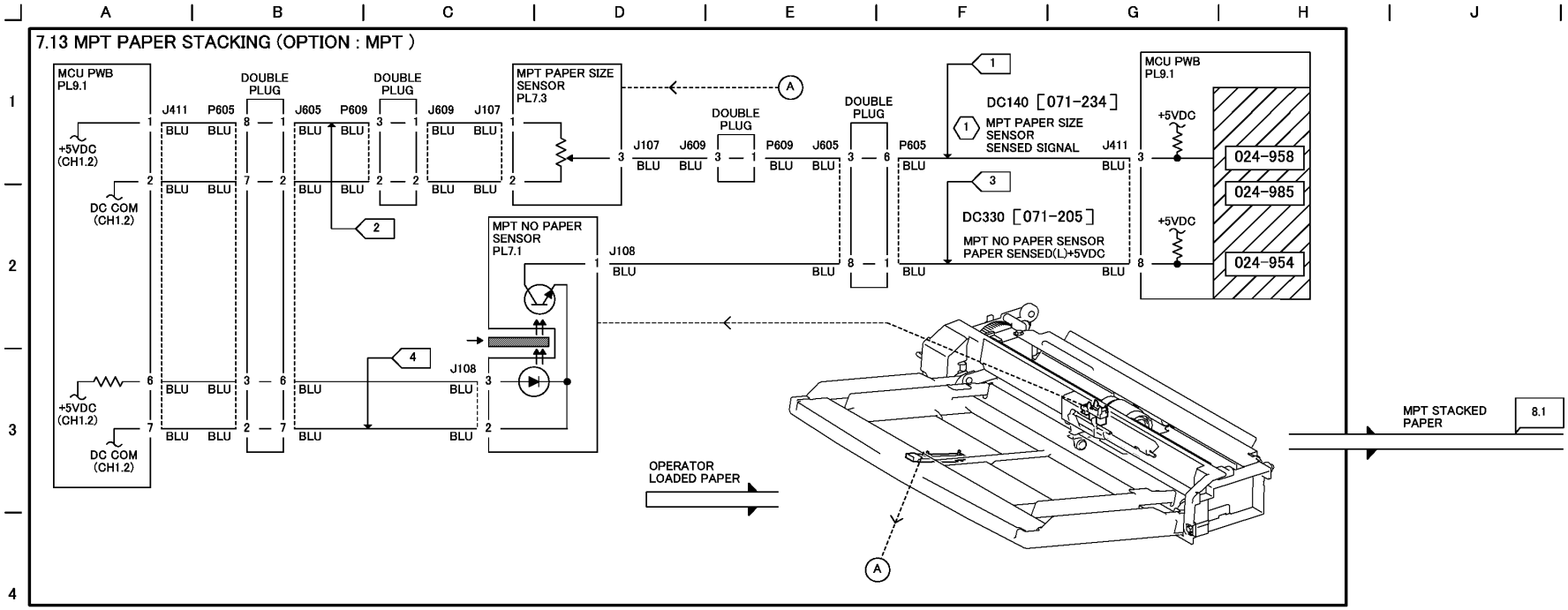


Figure 12 TRAY4 PAPER STACKING (OPTION:TANDEM TRAY MODULE) (j0tp90712)



(1) MPT 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:

Paper size	Width(mm)	Voltage value(V) J411-3
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) J411-3
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

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.

j0tp90713

Figure 13 MPT PAPER STACKING (OPTION:MPT) (j0tp90713)

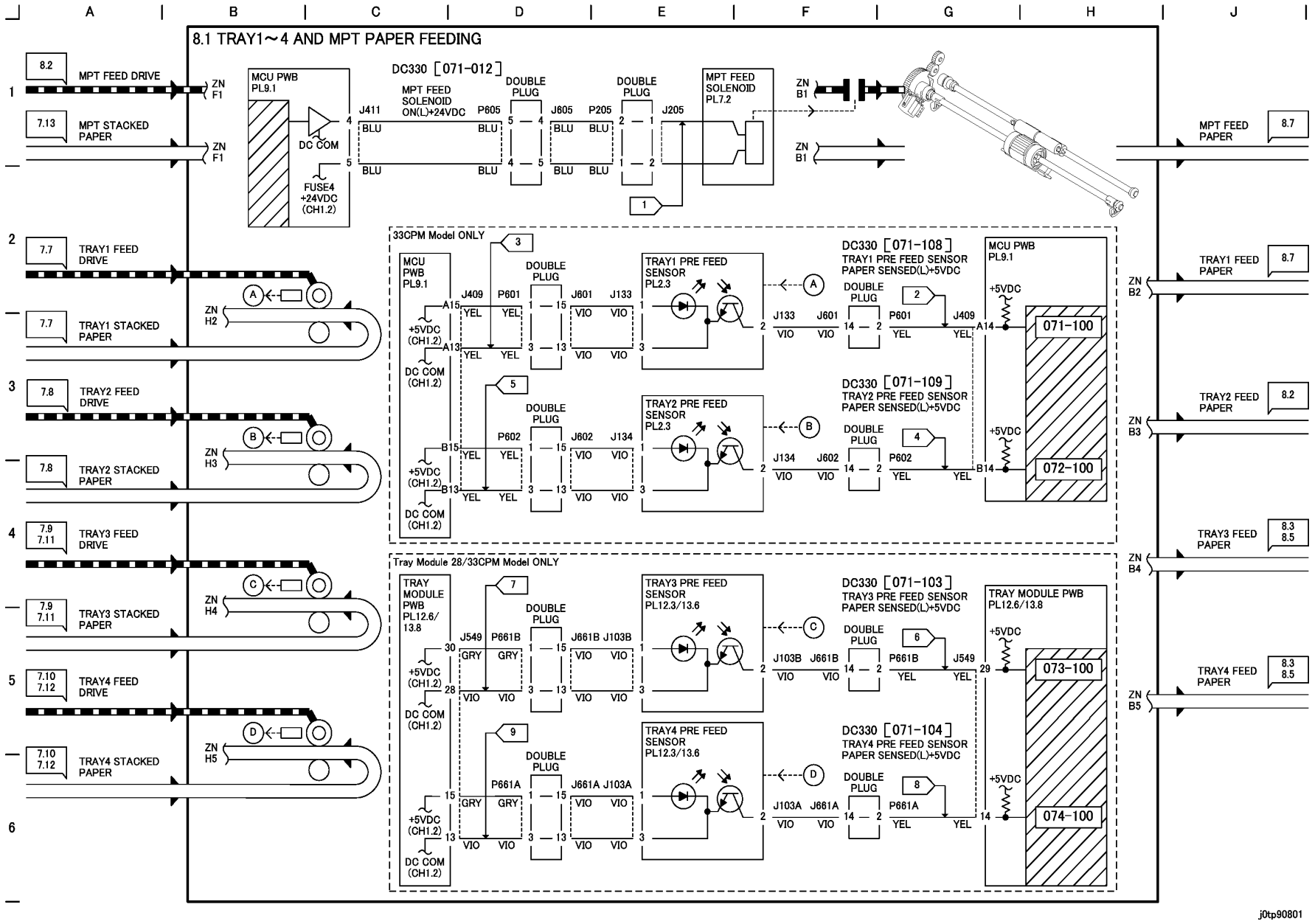


Figure 1 TRAY1-4 AND MPT PAPER FEEDING (j0tp90801)

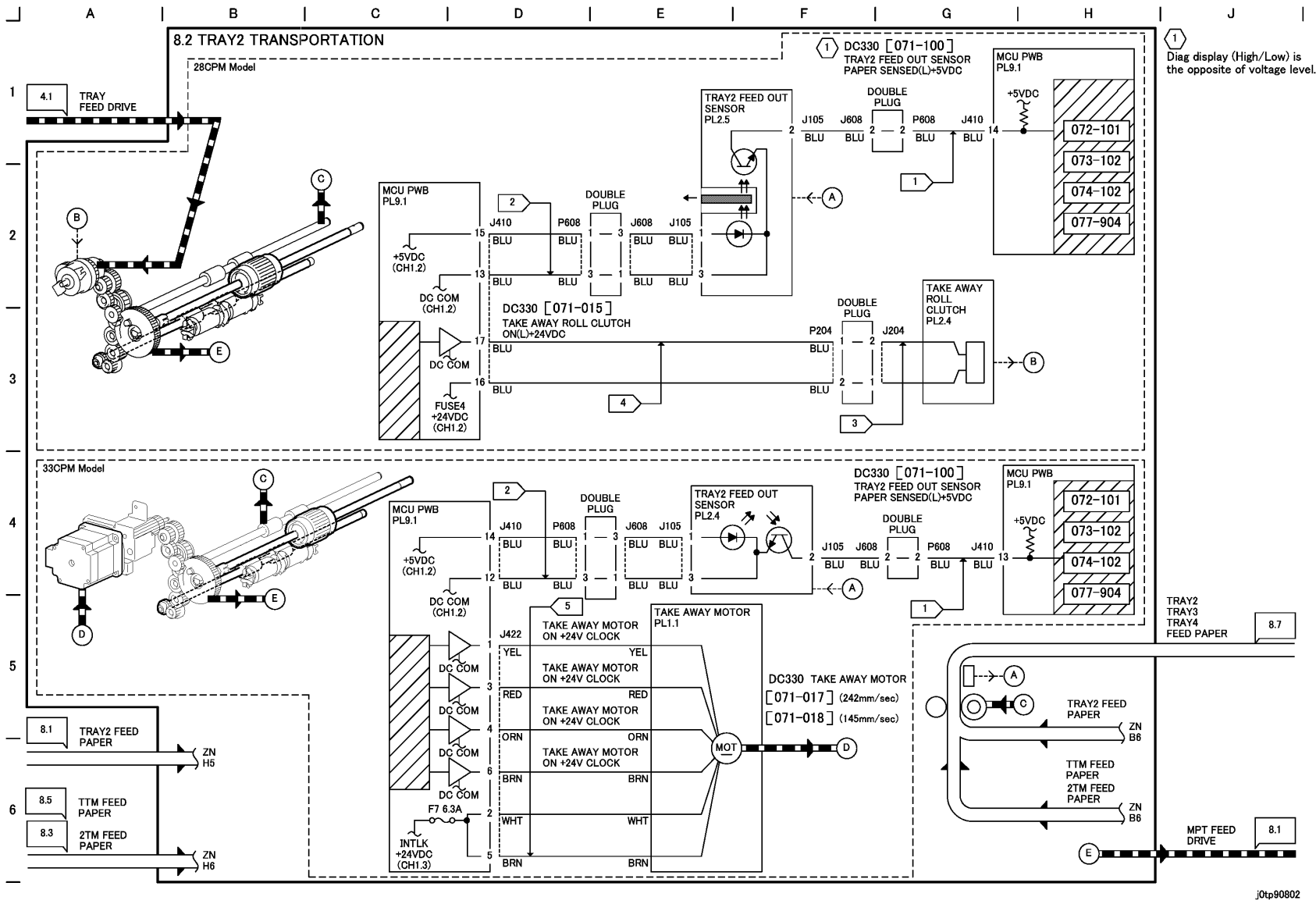


Figure 2 TRAY2 TRANSPORTATION (j0tp90802)

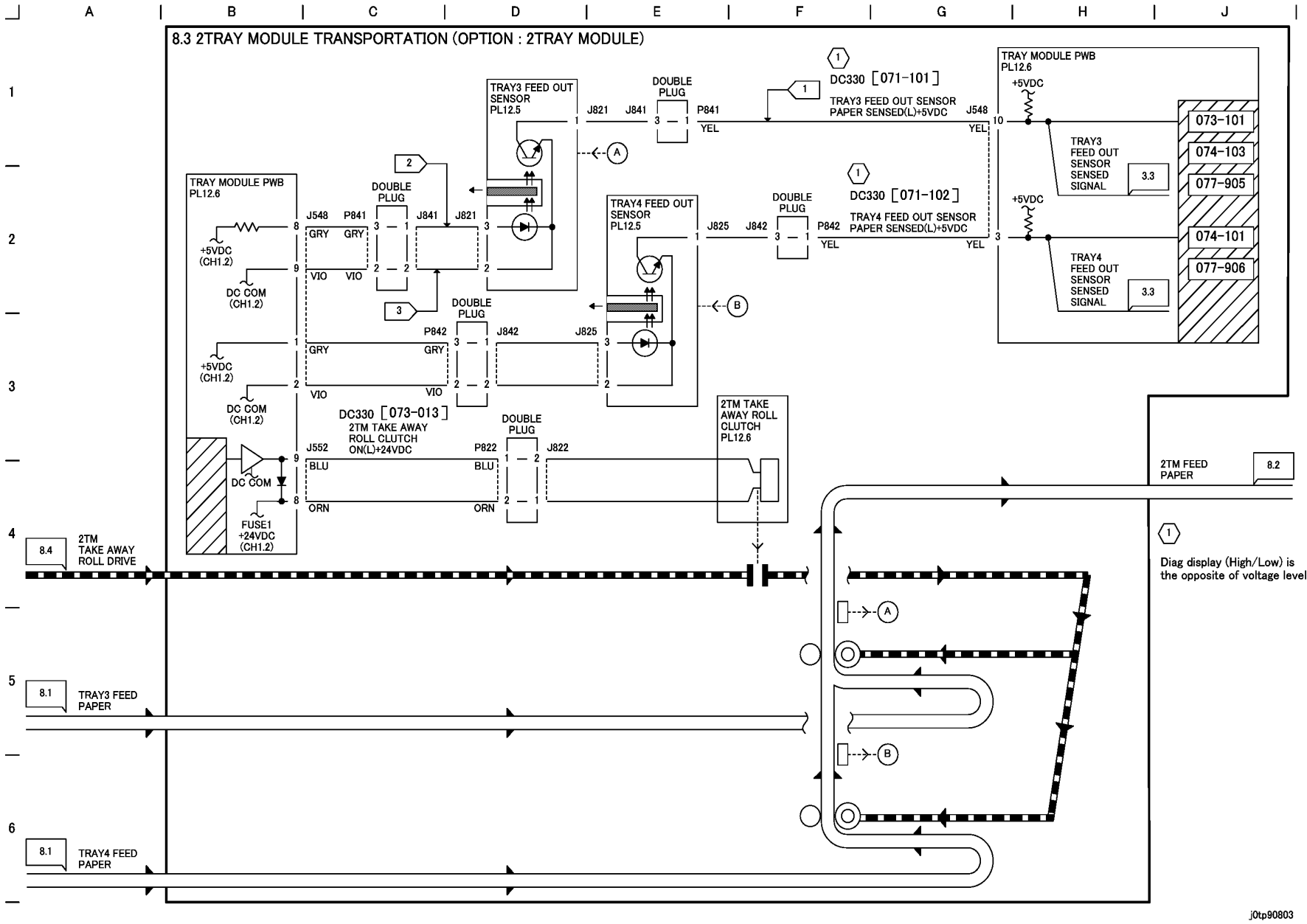


Figure 3 2TRAY MODULE TRANSPORTATION (OPTION:2TRAY MODULE) (j0tp90803)

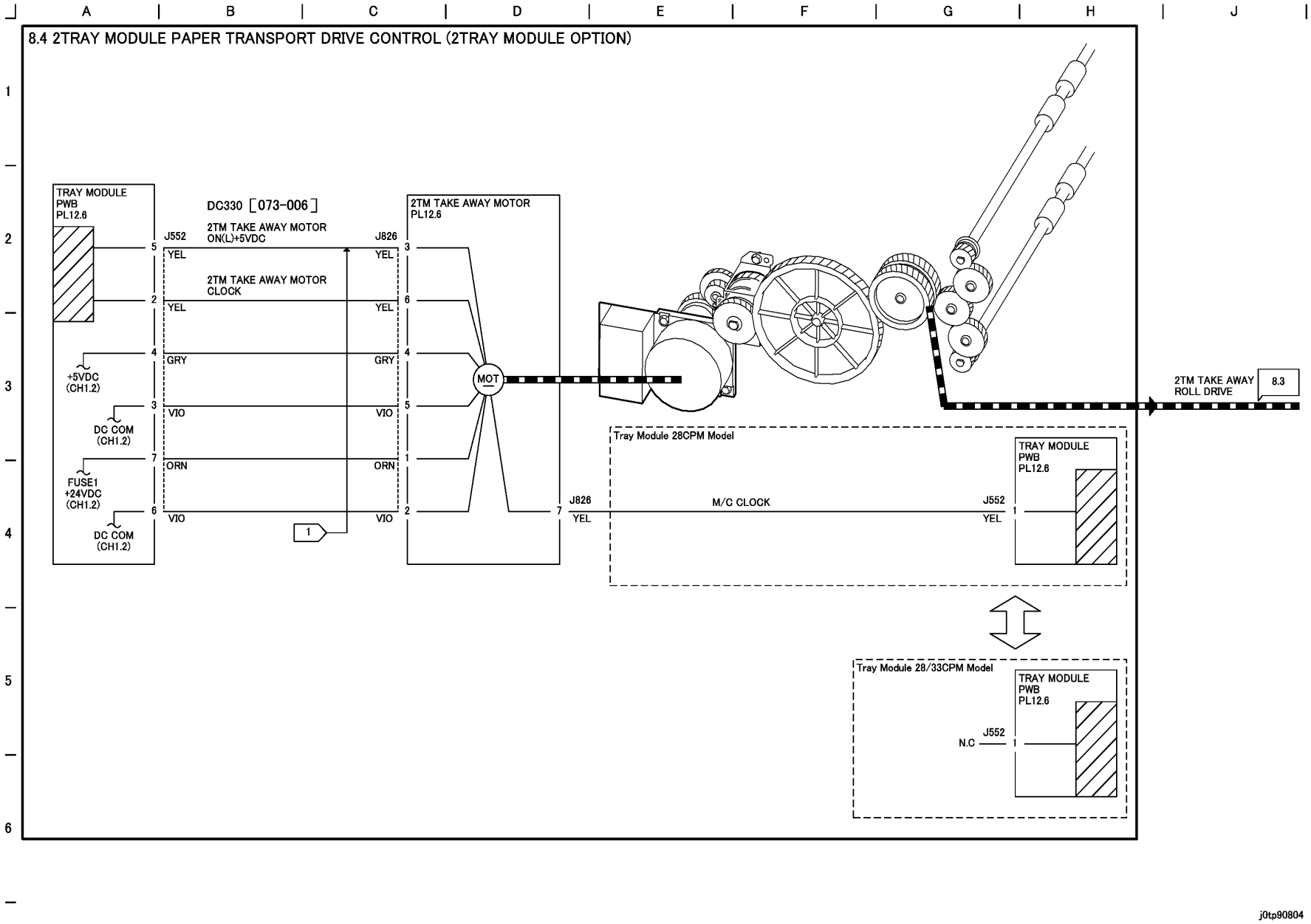


Figure 4 2TRAY MODULE PAPER TRANSPORT DRIVE CONTROL (2TRAY MODULE OPTION) (j0tp90804)

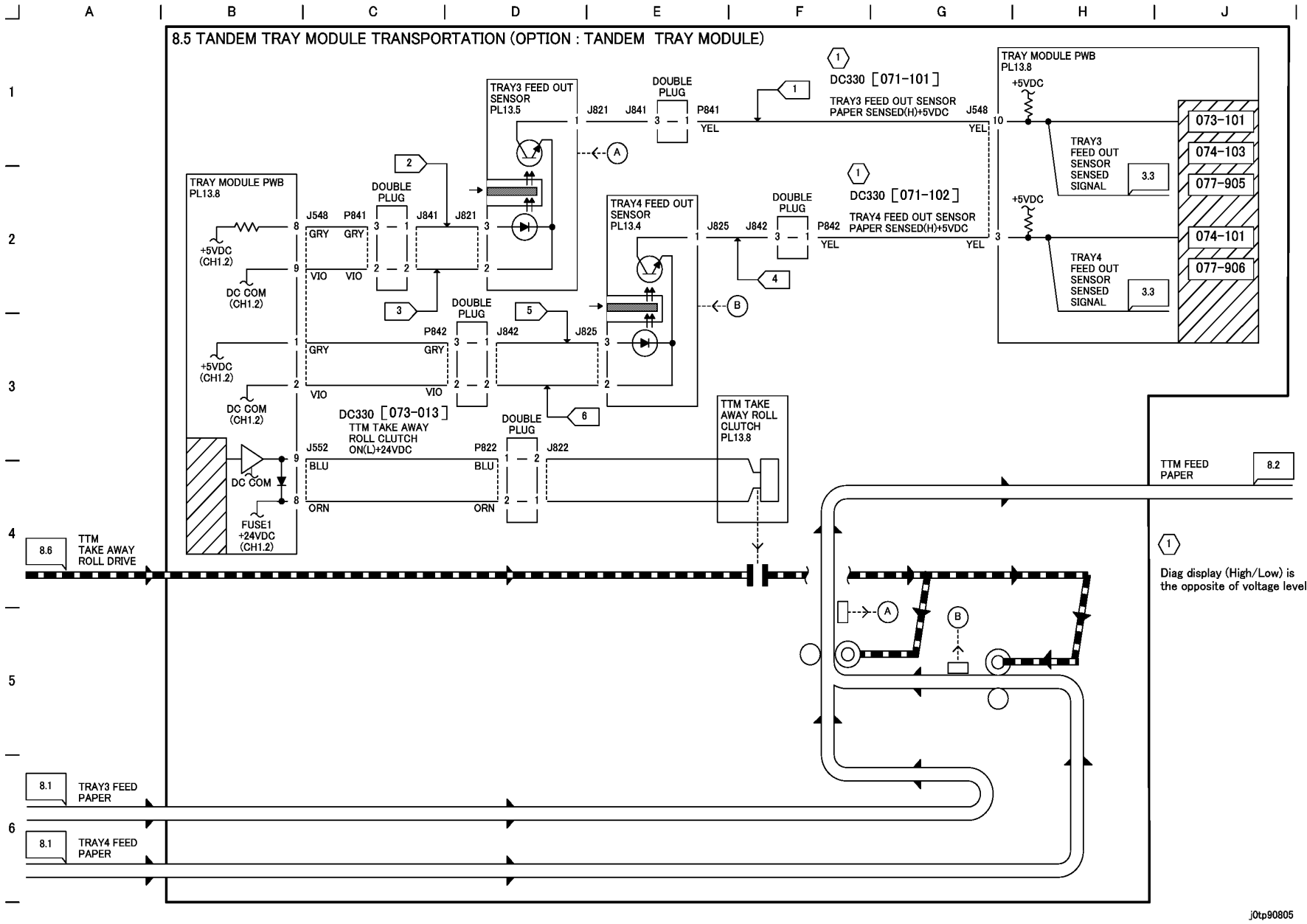


Figure 5 TANDEM TRAY MODULE TRANSPORTATION (OPTION:TANDEM TRAY MODULE) (j0tp90805)

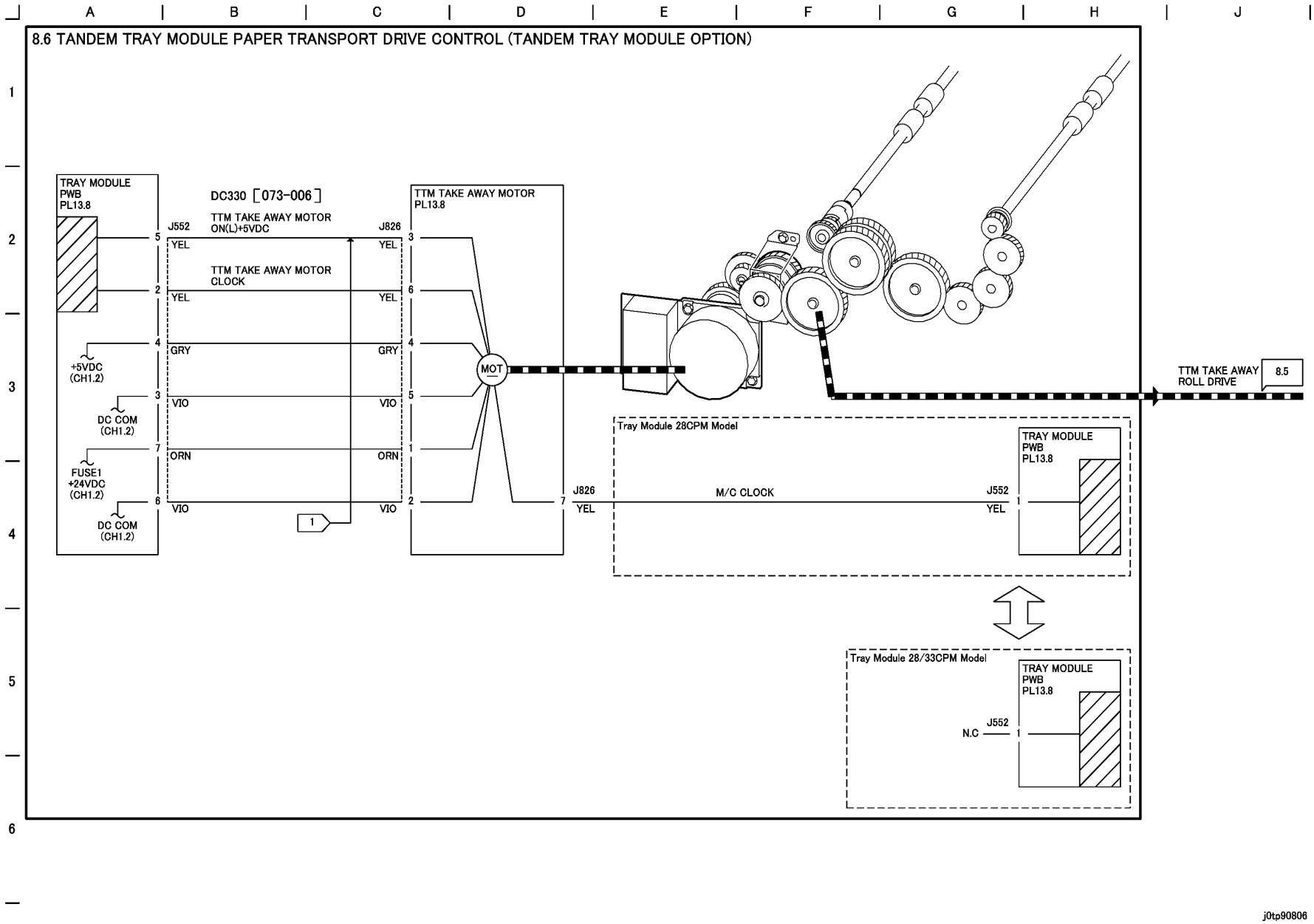


Figure 6 TANDEM TRAY MODULE PAPER TRANSPORT DRIVE CONTROL (OPTION:TANDEM TRAY MODULE) (j0tp90806)

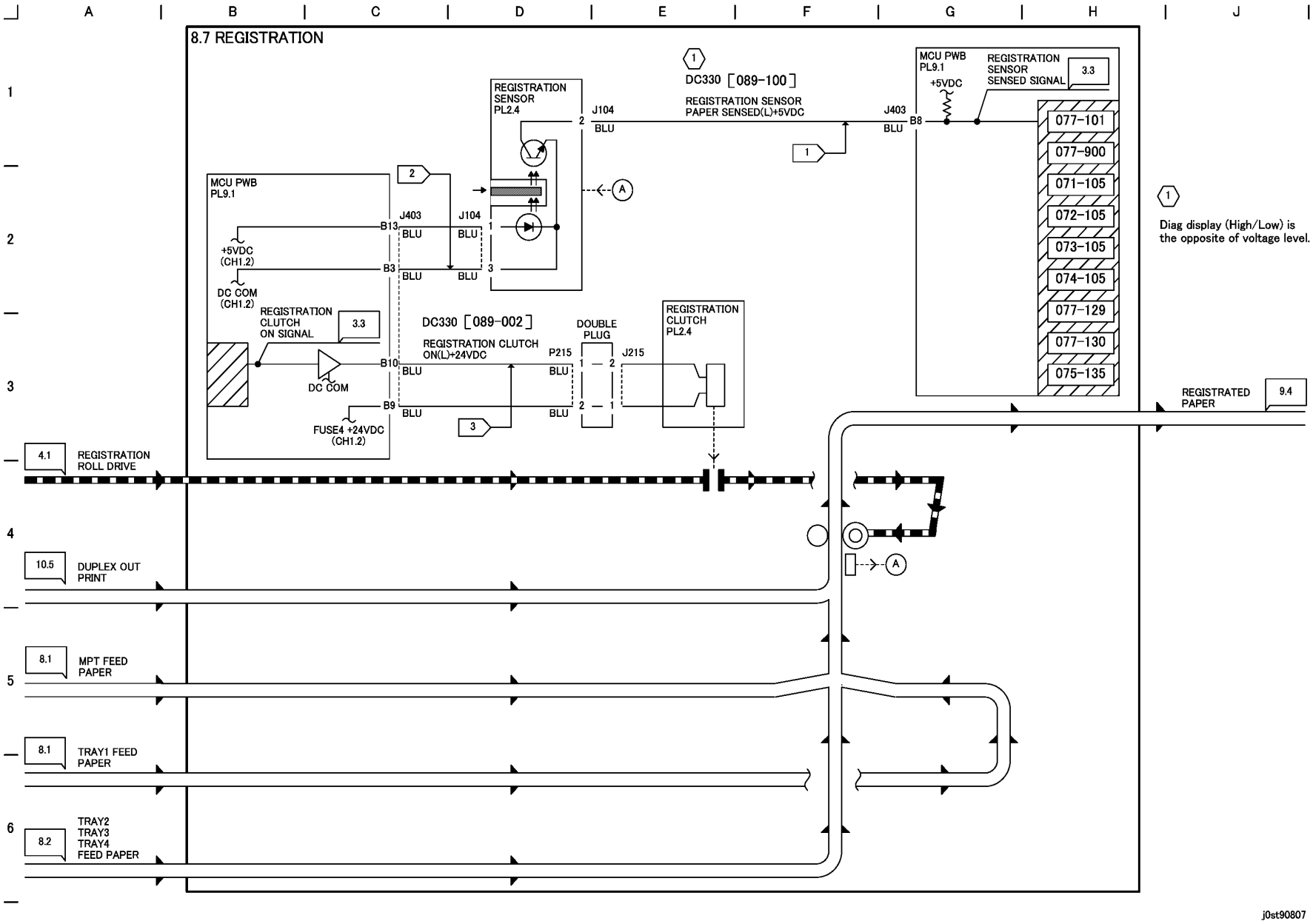


Figure 7 REGISTRATION (j0st90807)

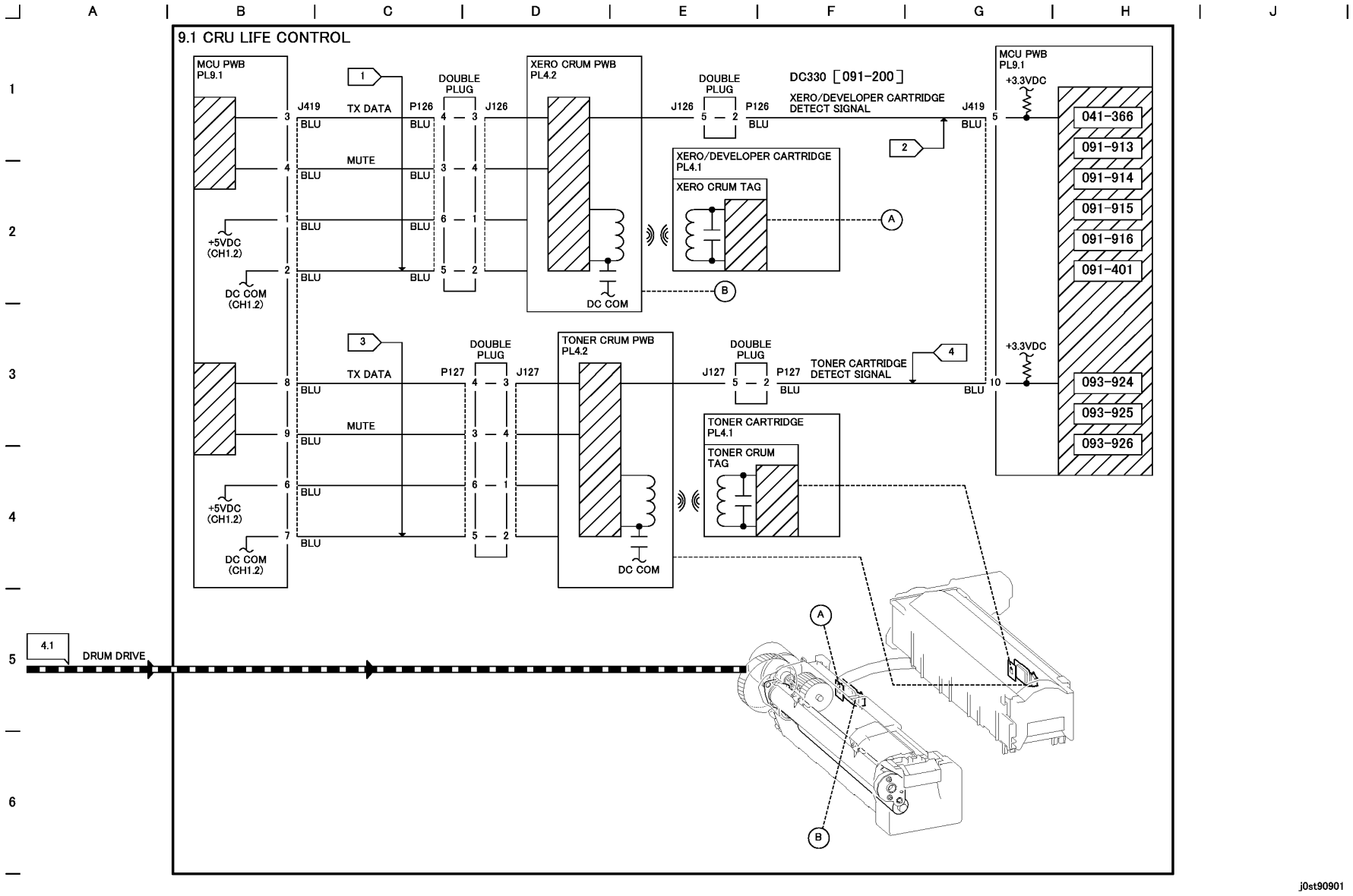


Figure 1 CRU LIFE CONTROL (j0st90901)

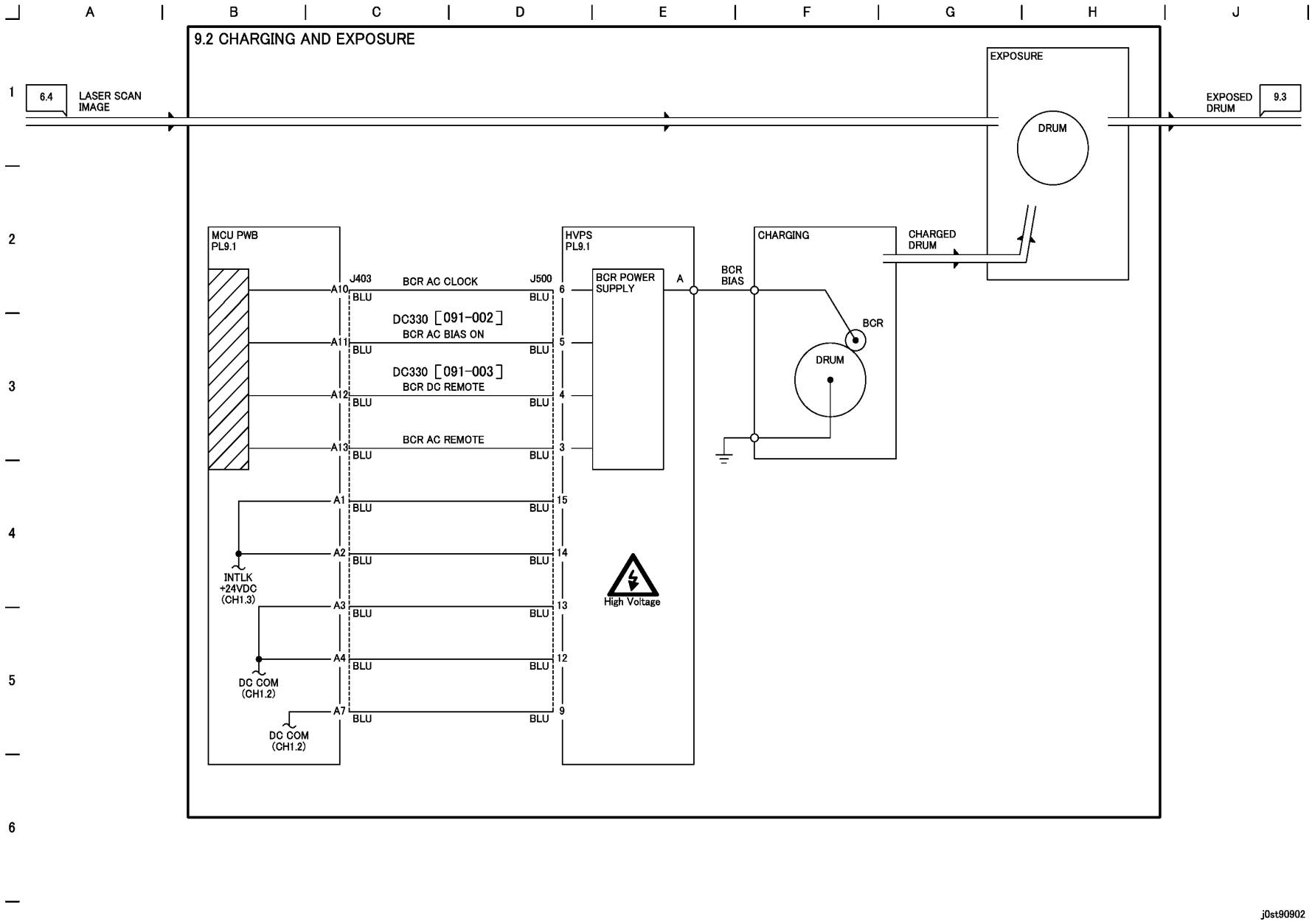


Figure 2 CHARGING AND EXPOSURE (j0st90902)

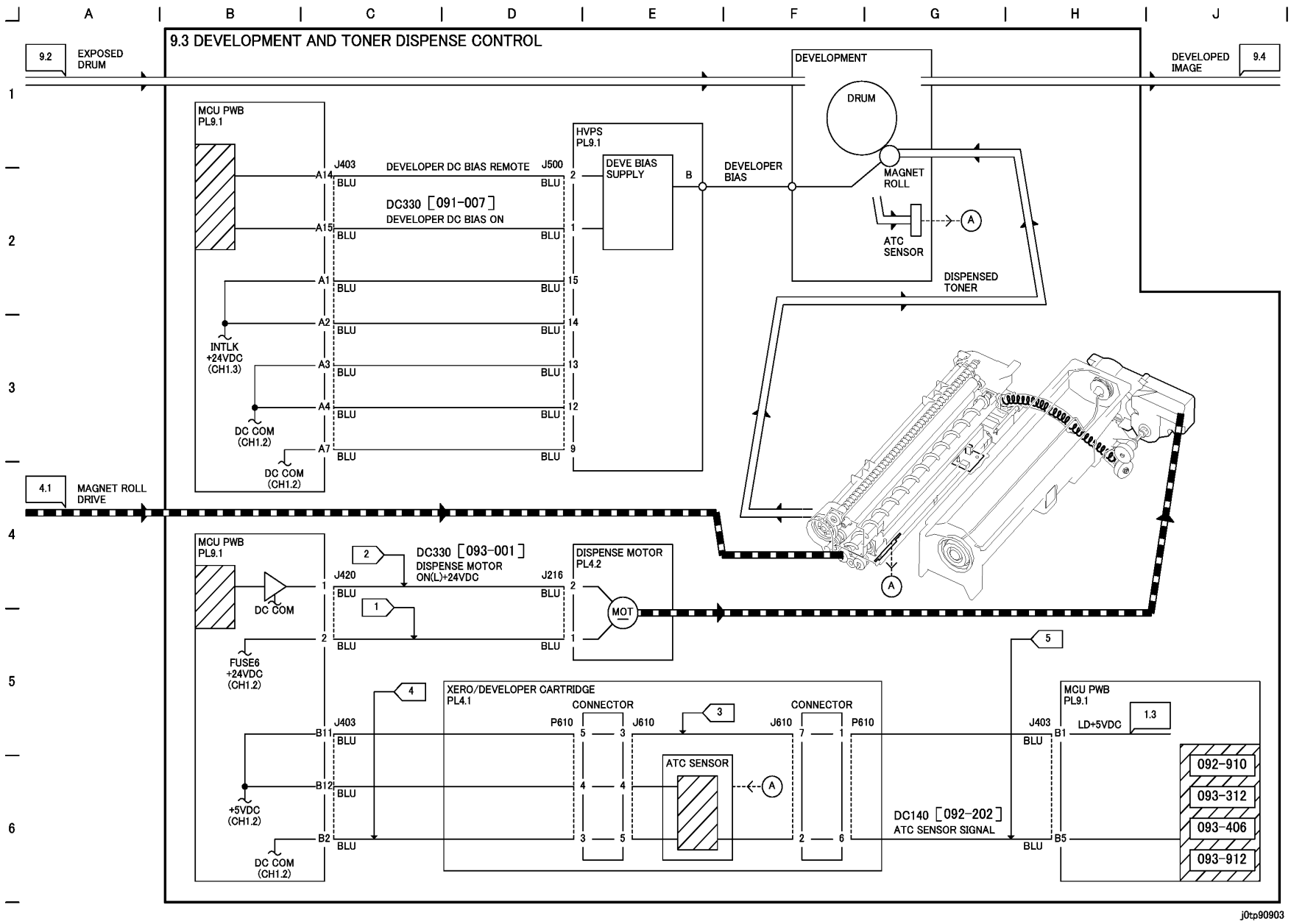


Figure 3 DEVELOPMENT AND TONER DISPENSE CONTROL (j0tp90903)

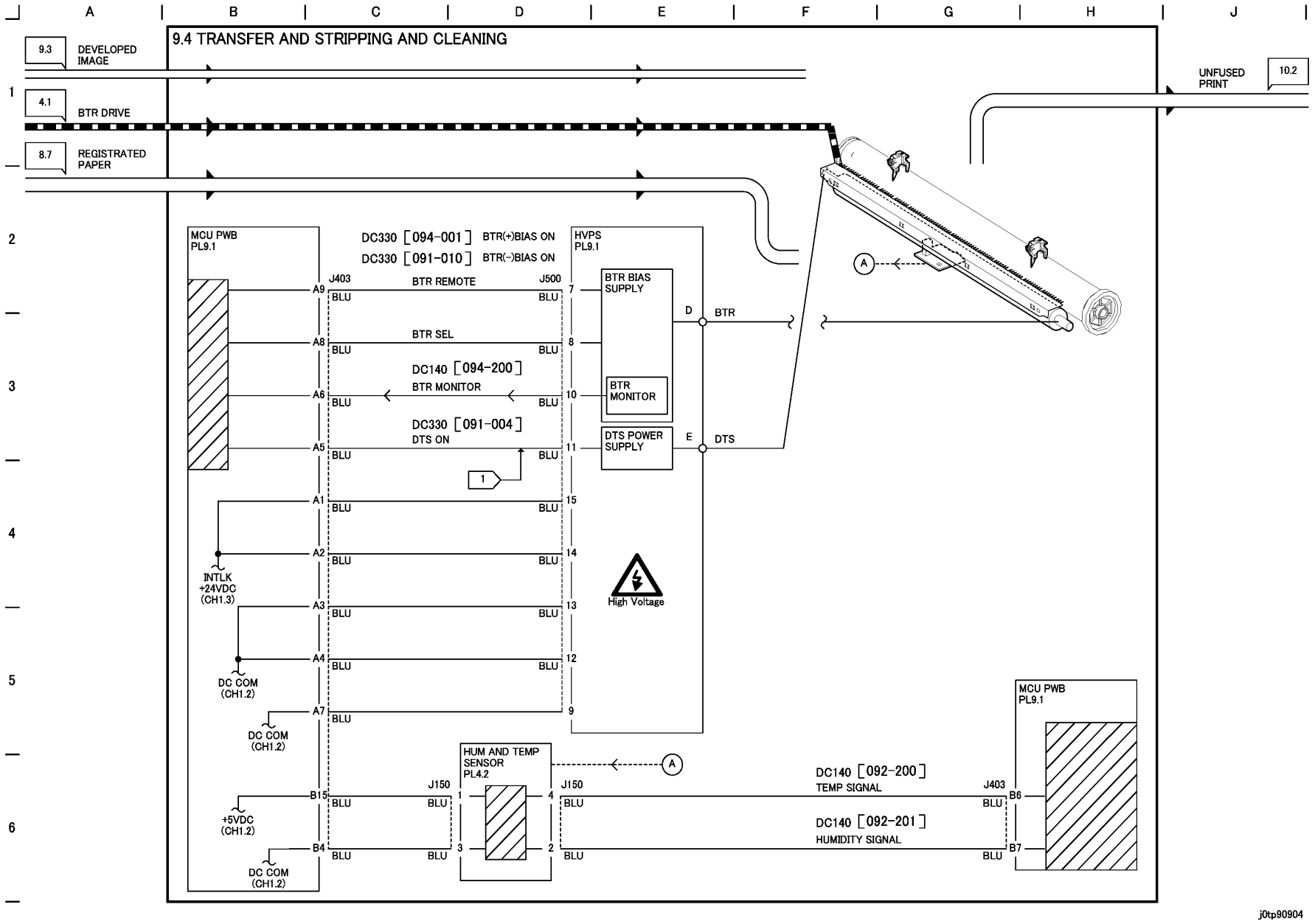
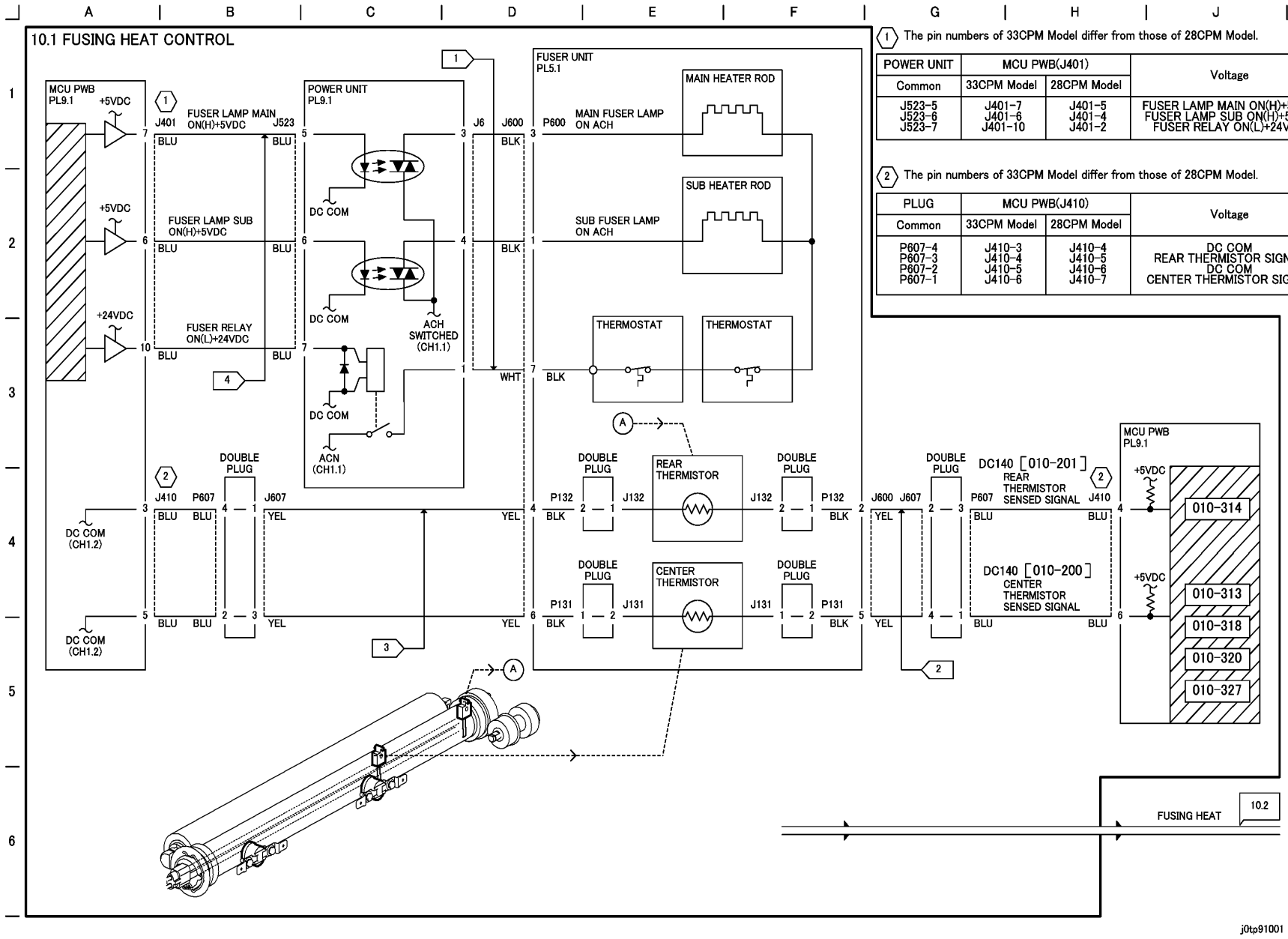


Figure 4 TRANSFER AND STRIPPIONG AND CLEANING (j0tp90904)



1 The pin numbers of 33CPM Model differ from those of 28CPM Model.

POWER UNIT	MCU PWB(J401)		Voltage
Common	33CPM Model	28CPM Model	
J523-5	J401-7	J401-5	FUSER LAMP MAIN ON(H)+5VDC
J523-6	J401-6	J401-4	FUSER LAMP SUB ON(H)+5VDC
J523-7	J401-10	J401-2	FUSER RELAY ON(L)+24VDC

2 The pin numbers of 33CPM Model differ from those of 28CPM Model.

PLUG	MCU PWB(J410)		Voltage
Common	33CPM Model	28CPM Model	
P607-4	J410-3	J410-4	DC COM
P607-3	J410-4	J410-5	REAR THERMISTOR SIGNAL
P607-2	J410-5	J410-6	DC COM
P607-1	J410-6	J410-7	CENTER THERMISTOR SIGNAL

Figure 1 FUSING HEAT CONTROL (j0tp91001)

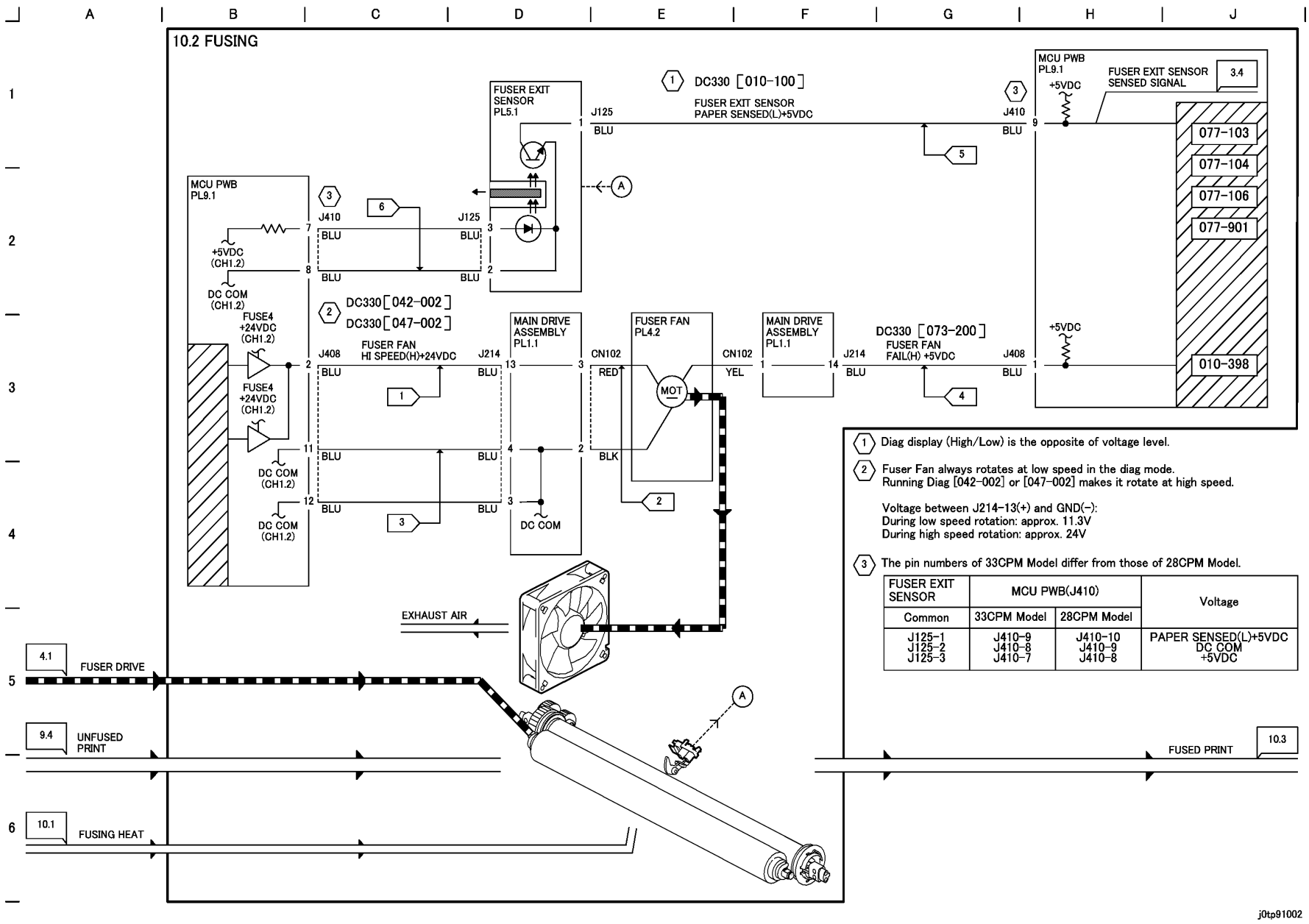


Figure 2 FUSING (j0tp91002)

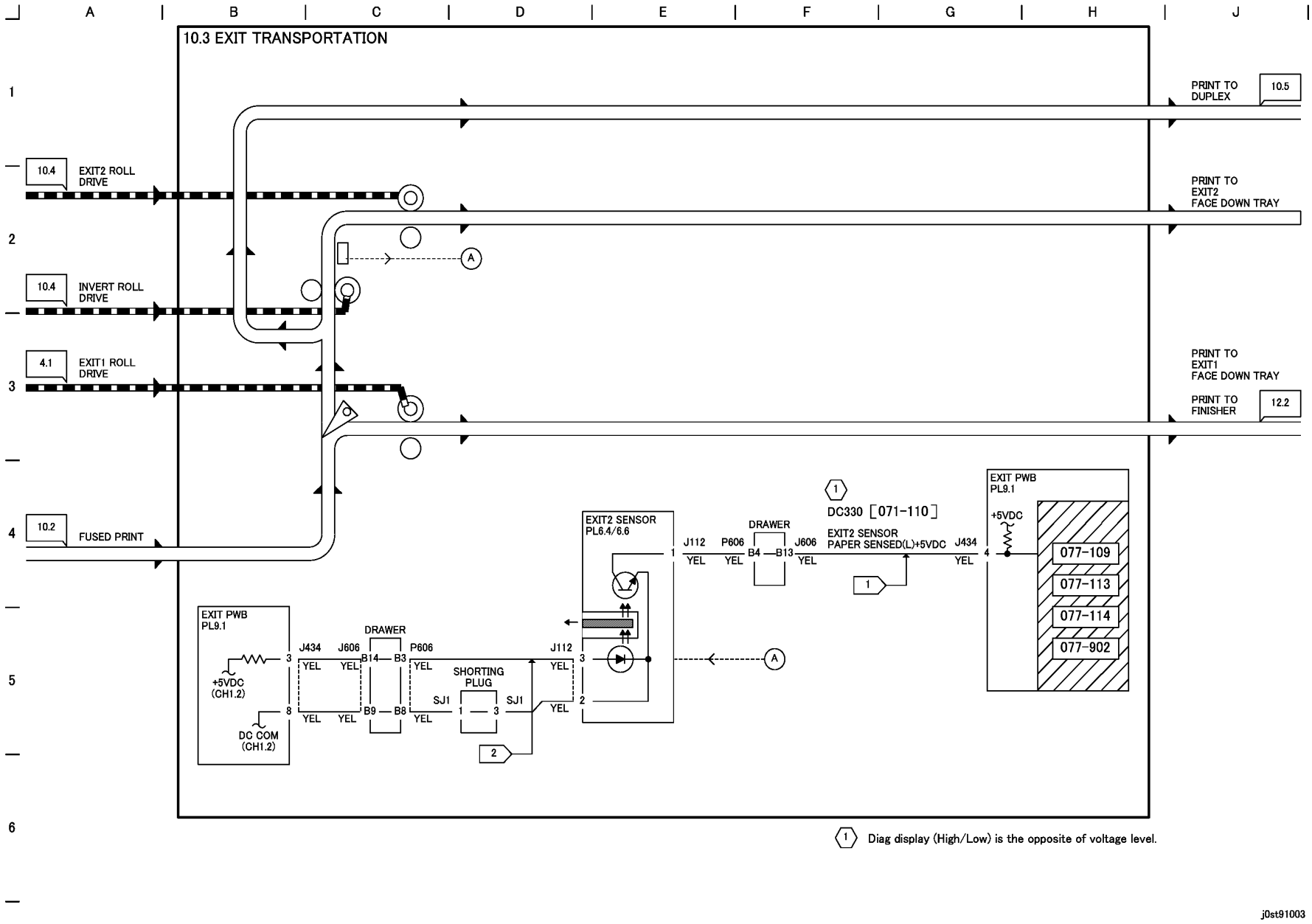


Figure 3 EXIT TRANSPORTATION (j0st91003)

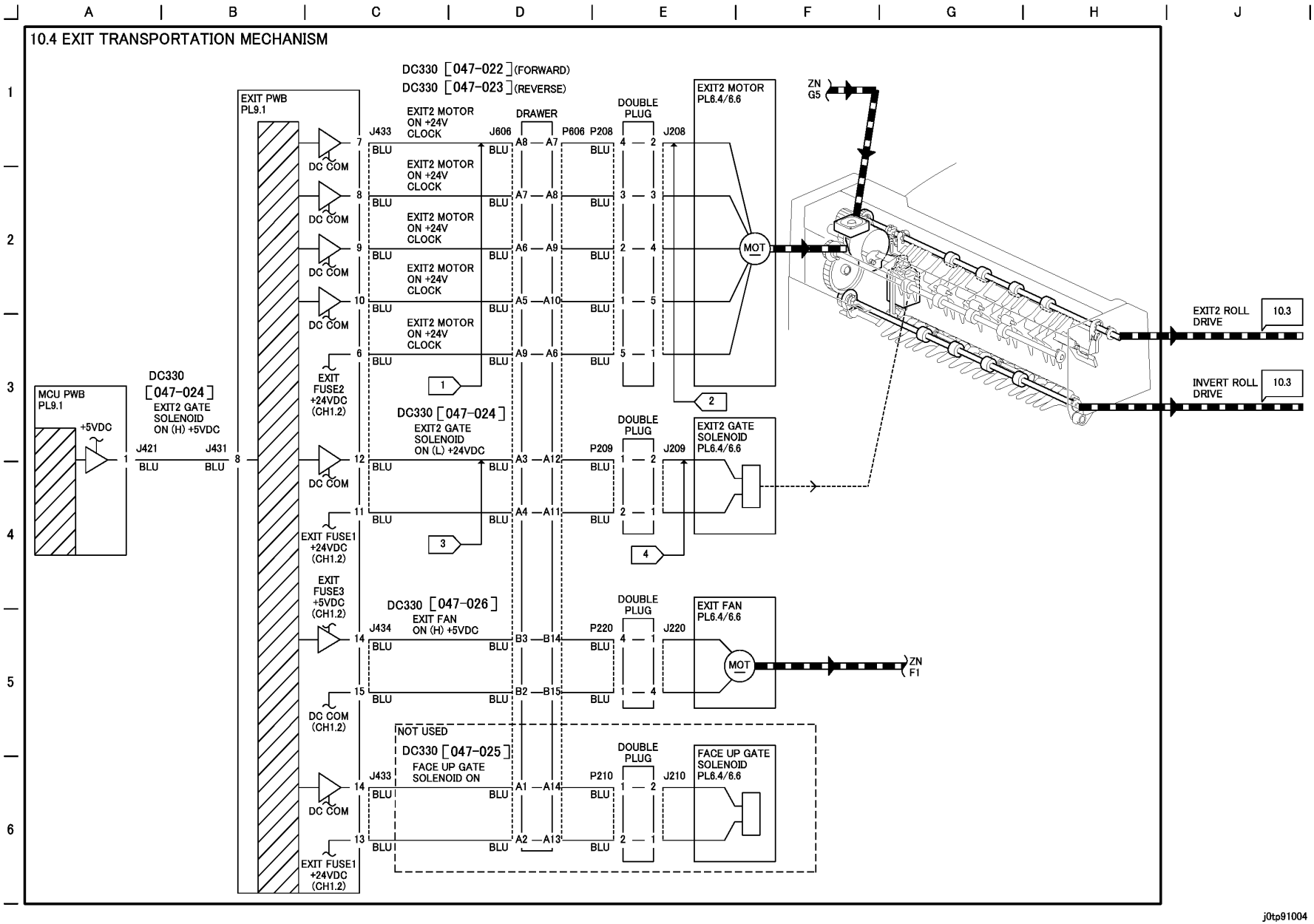


Figure 4 EXIT TRANSPORTATION MECHANISM (j0tp91004)

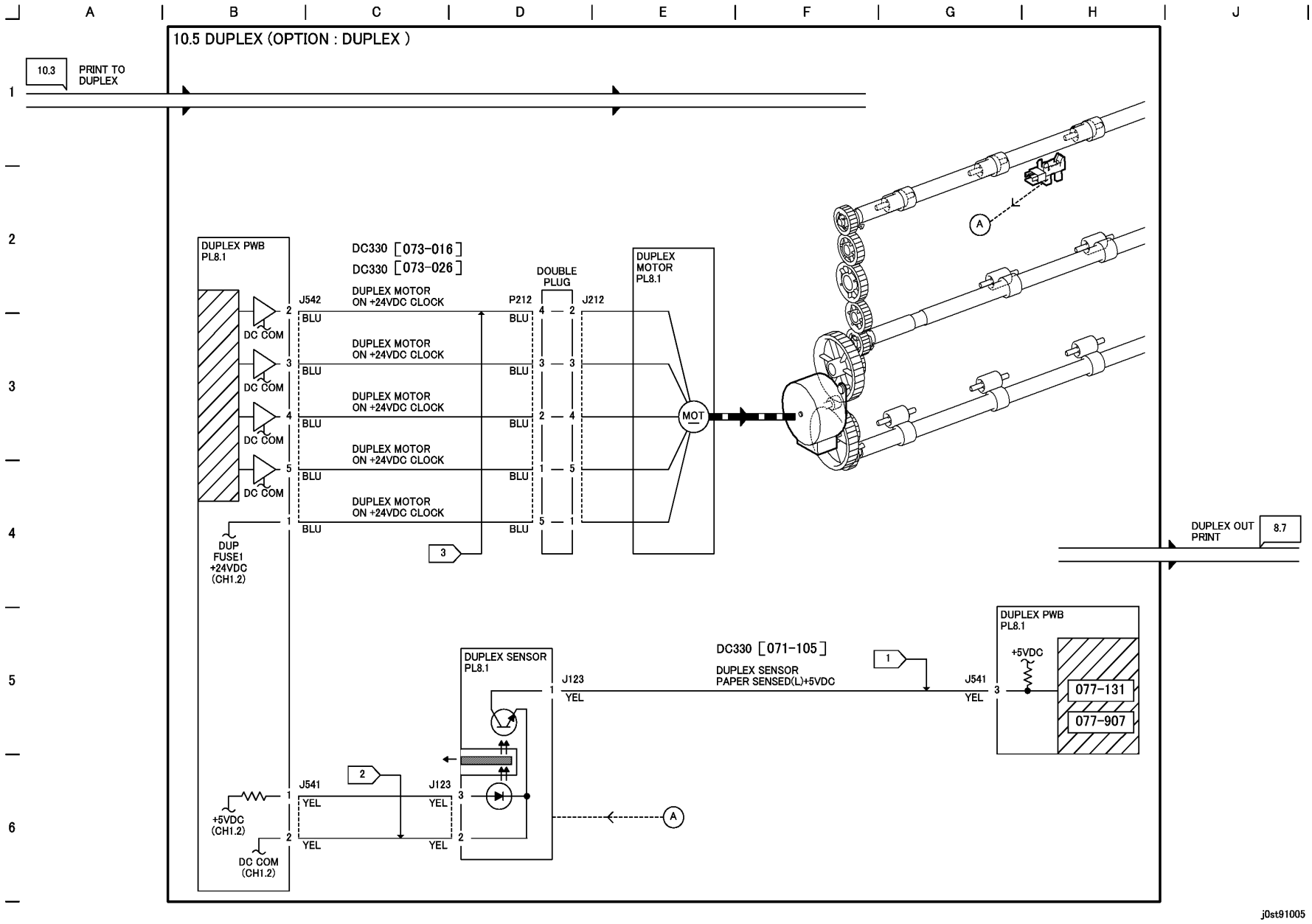


Figure 5 DUPLEX (OPTION:DUPLEX) (j0st91005)

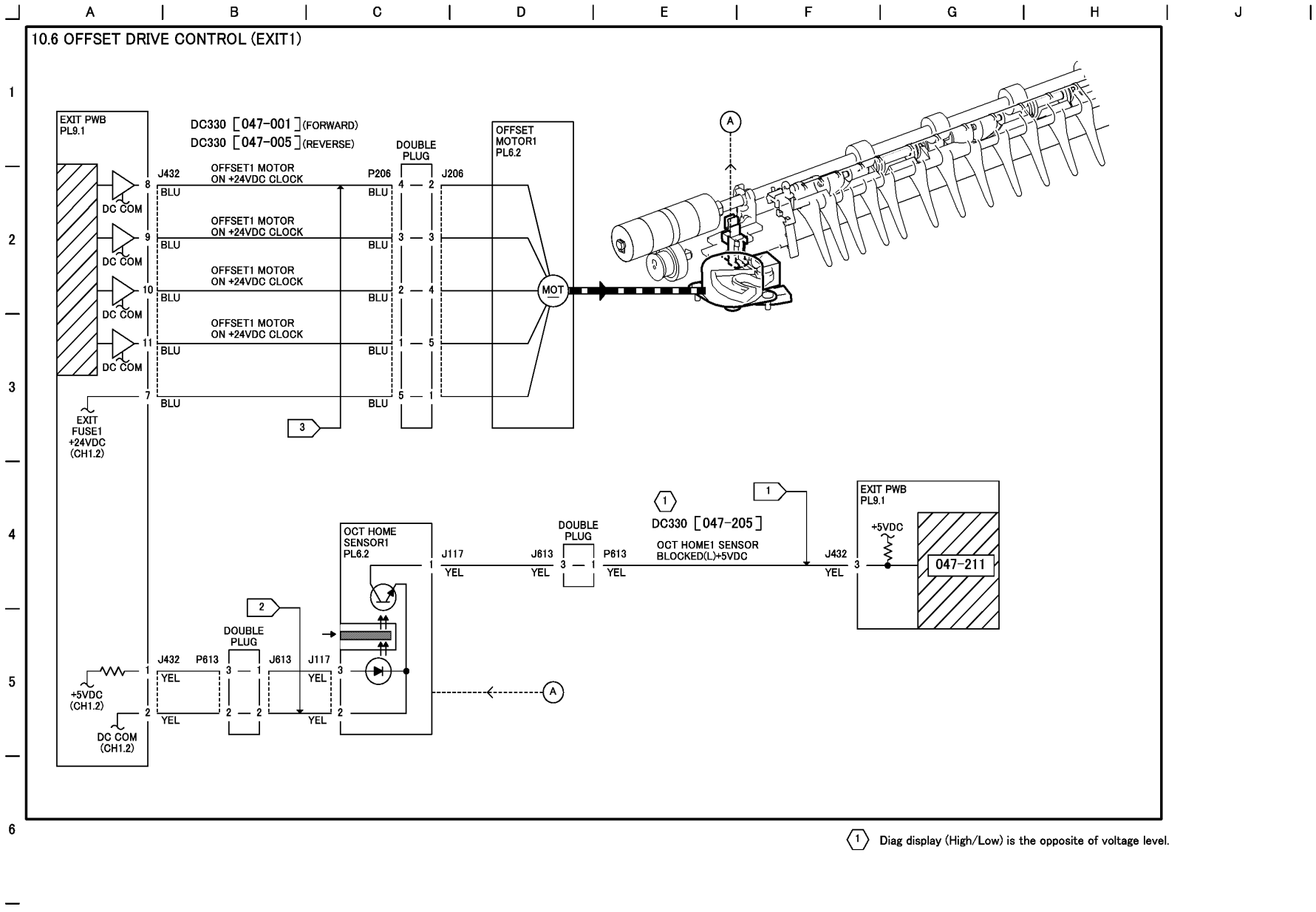


Figure 6 OFFSET CONTROL (EXIT1) (j0tp91006)

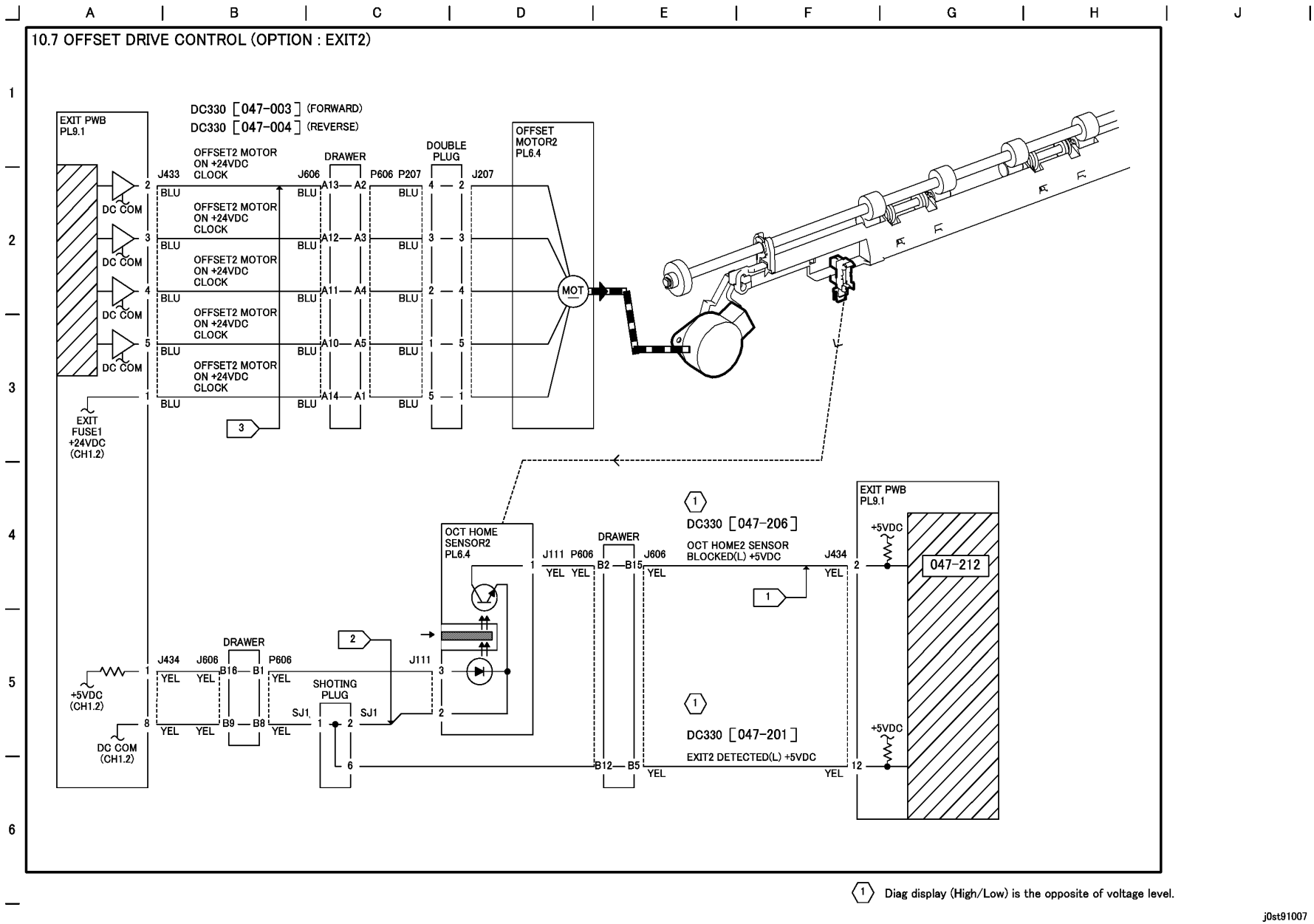


Figure 7 OFFSET CONTROL (OPTION:EXIT2) (j0st91007)

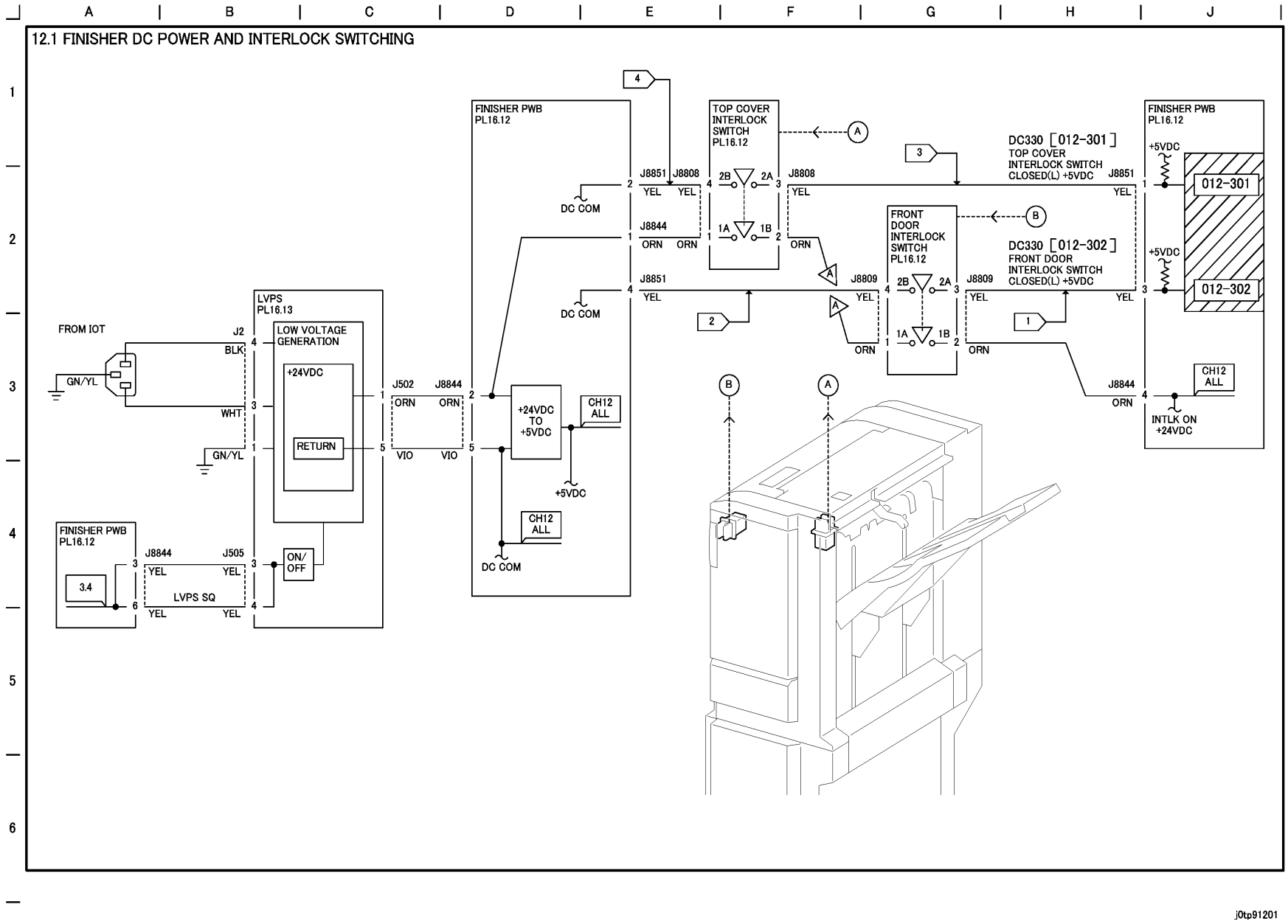


Figure 1 FINISHER DC POWER AND INTERLOCK SWITCHING (j0tp91201)

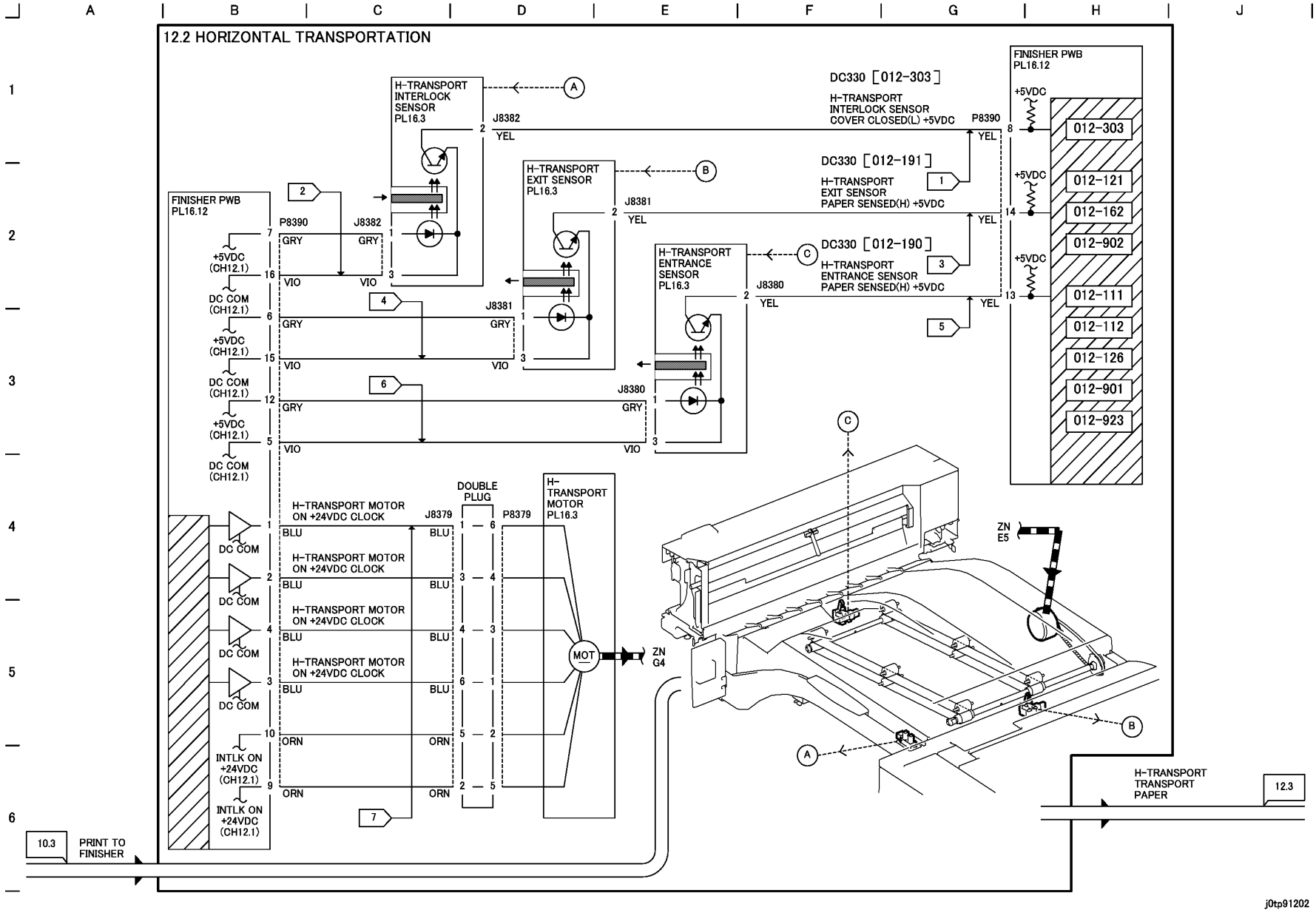


Figure 2 HORIZONTAL TRANSPORTATION (j0tp91202)

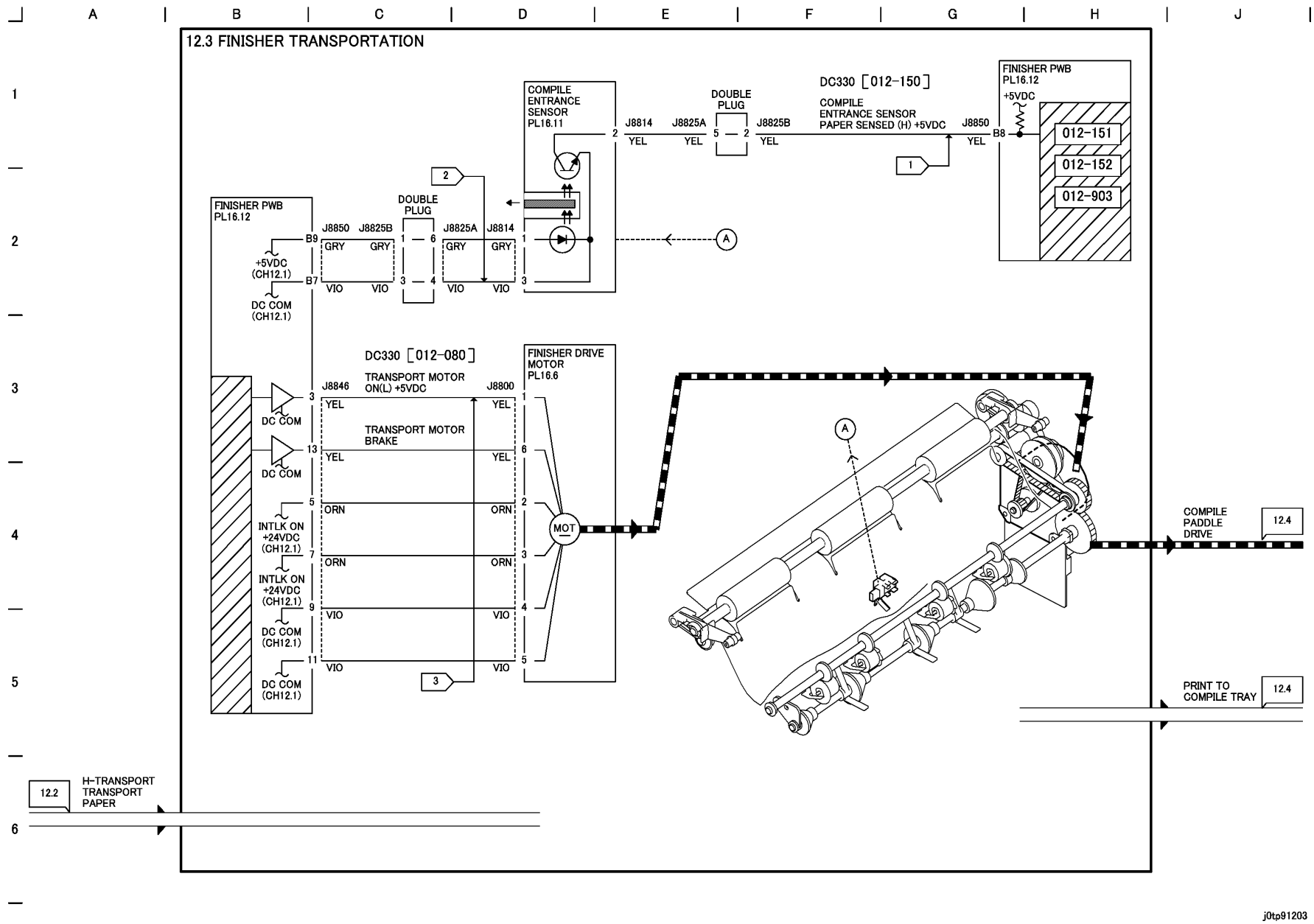


Figure 3 FINISHER TRANSPOETATION (j0tp91203)

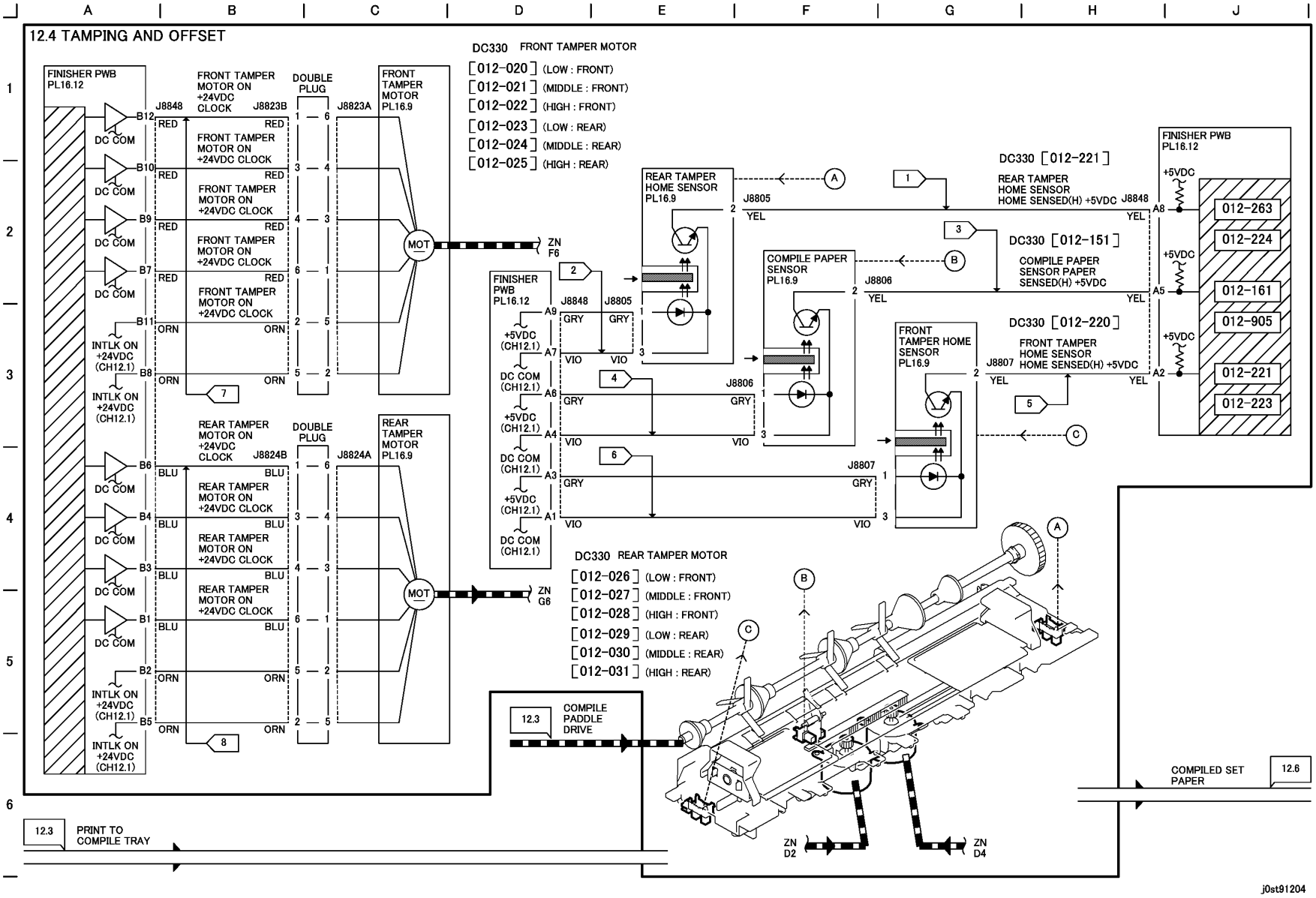
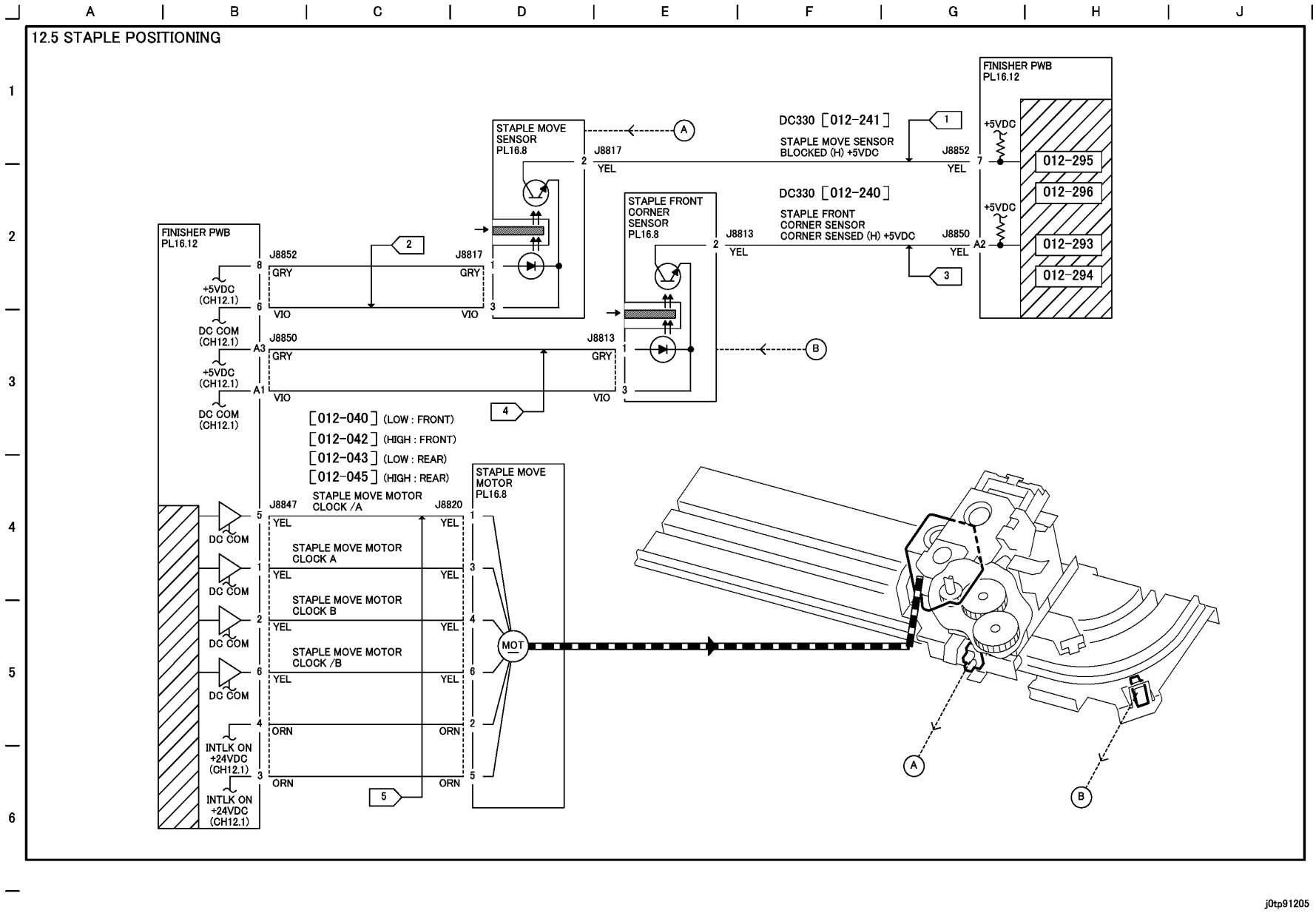


Figure 4 TAMPING AND OFFSET (j0st91204)



j0tp91205

Figure 5 STAPLE POSITIONING (j0tp91205)

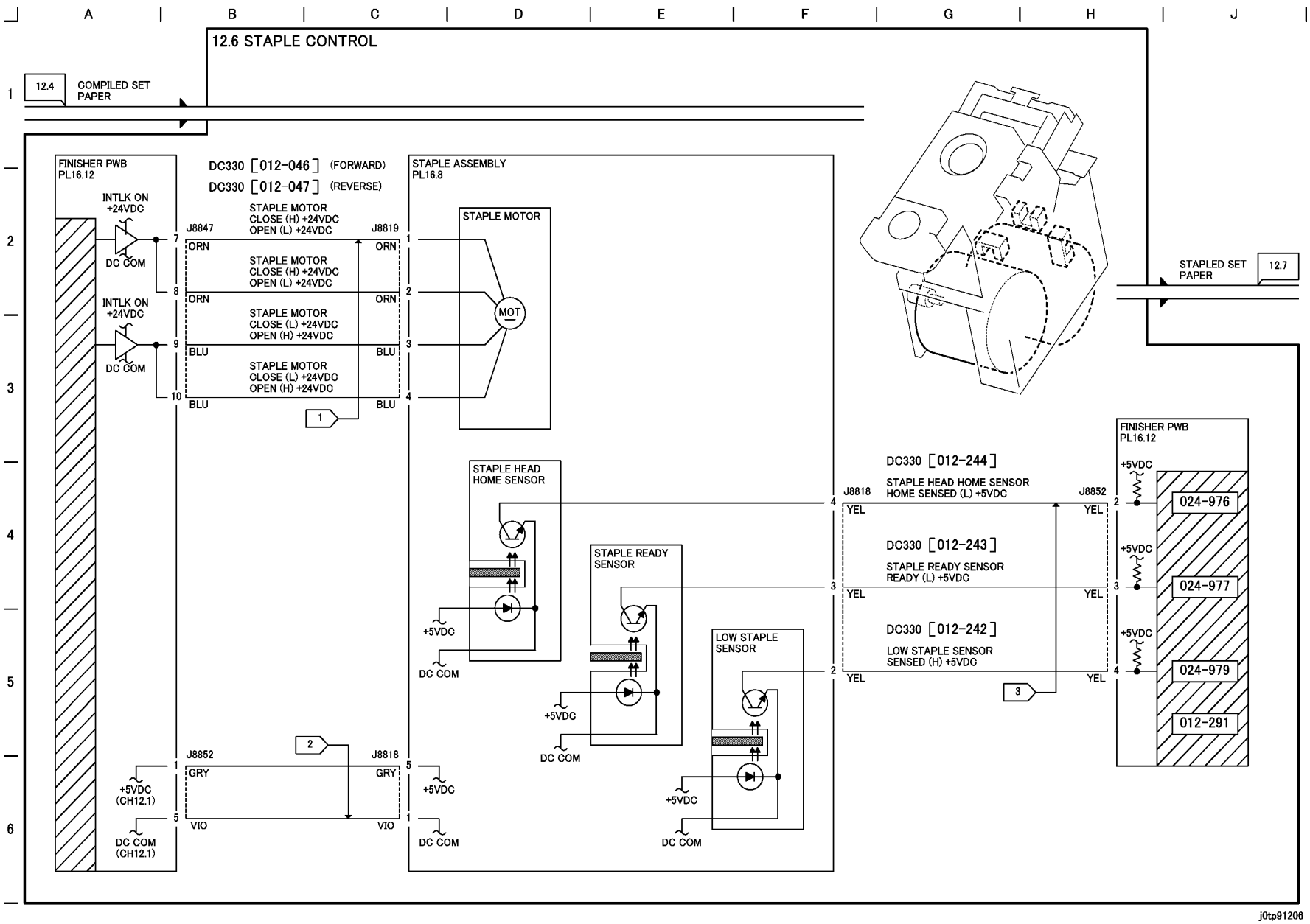


Figure 6 STAPLE CONTROL (j0tp91206)

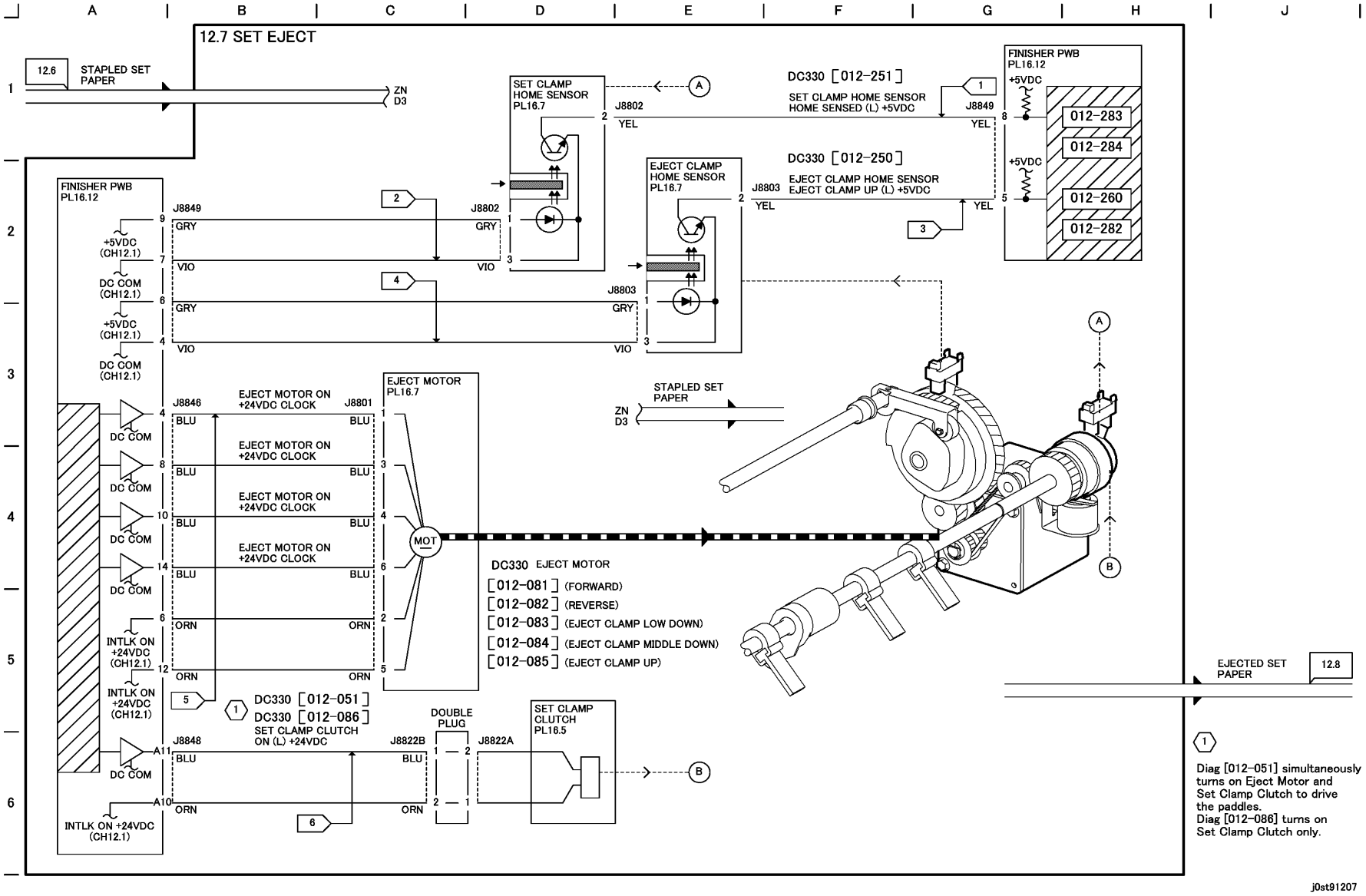


Figure 7 SET EJECT (j0st91207)

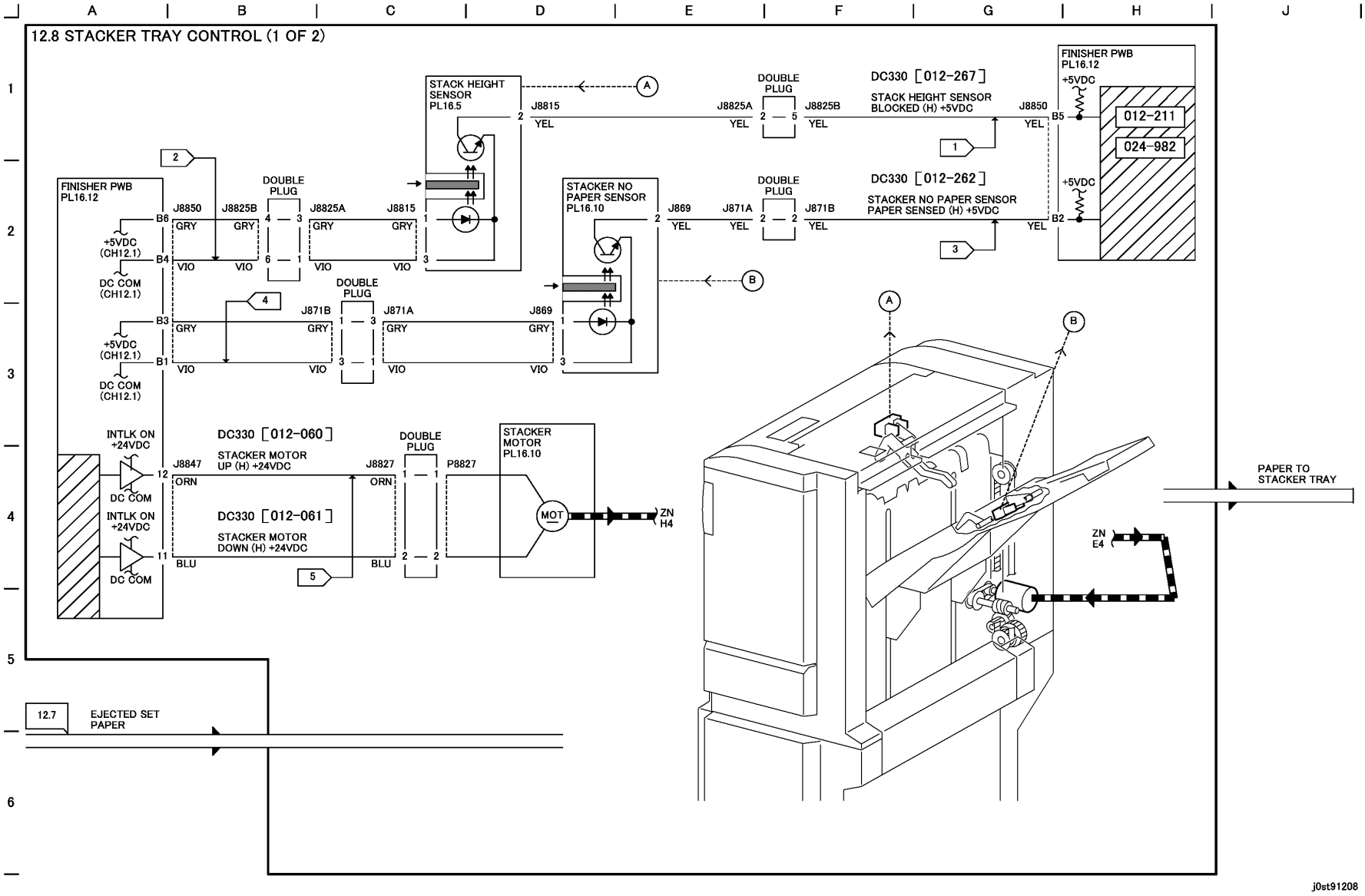


Figure 8 STACKER TRAY CONTROL (1 OF 2) (j0st91208)

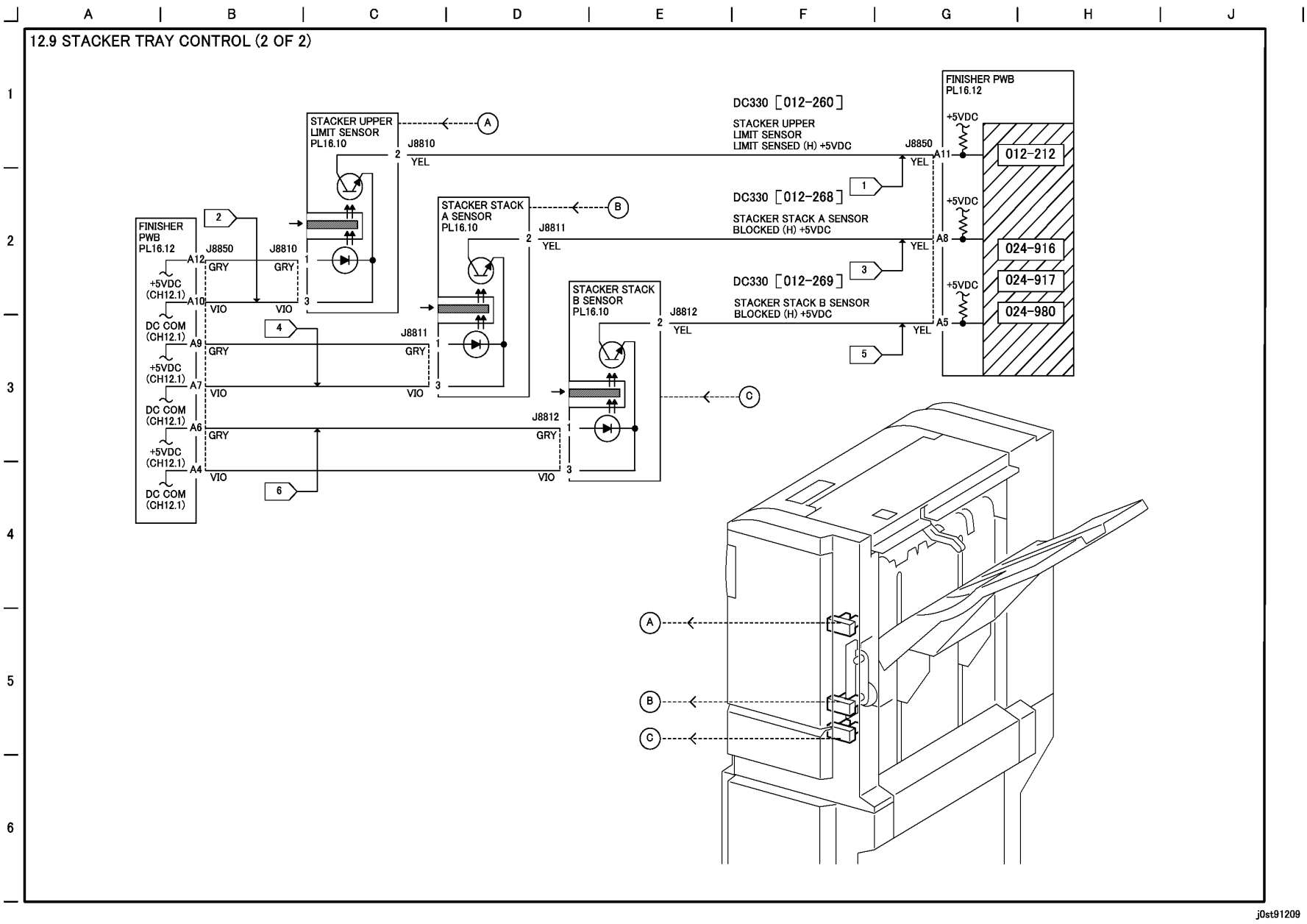


Figure 9 STACKER TRAY CONTROL (2 OF 2) (j0st91209)

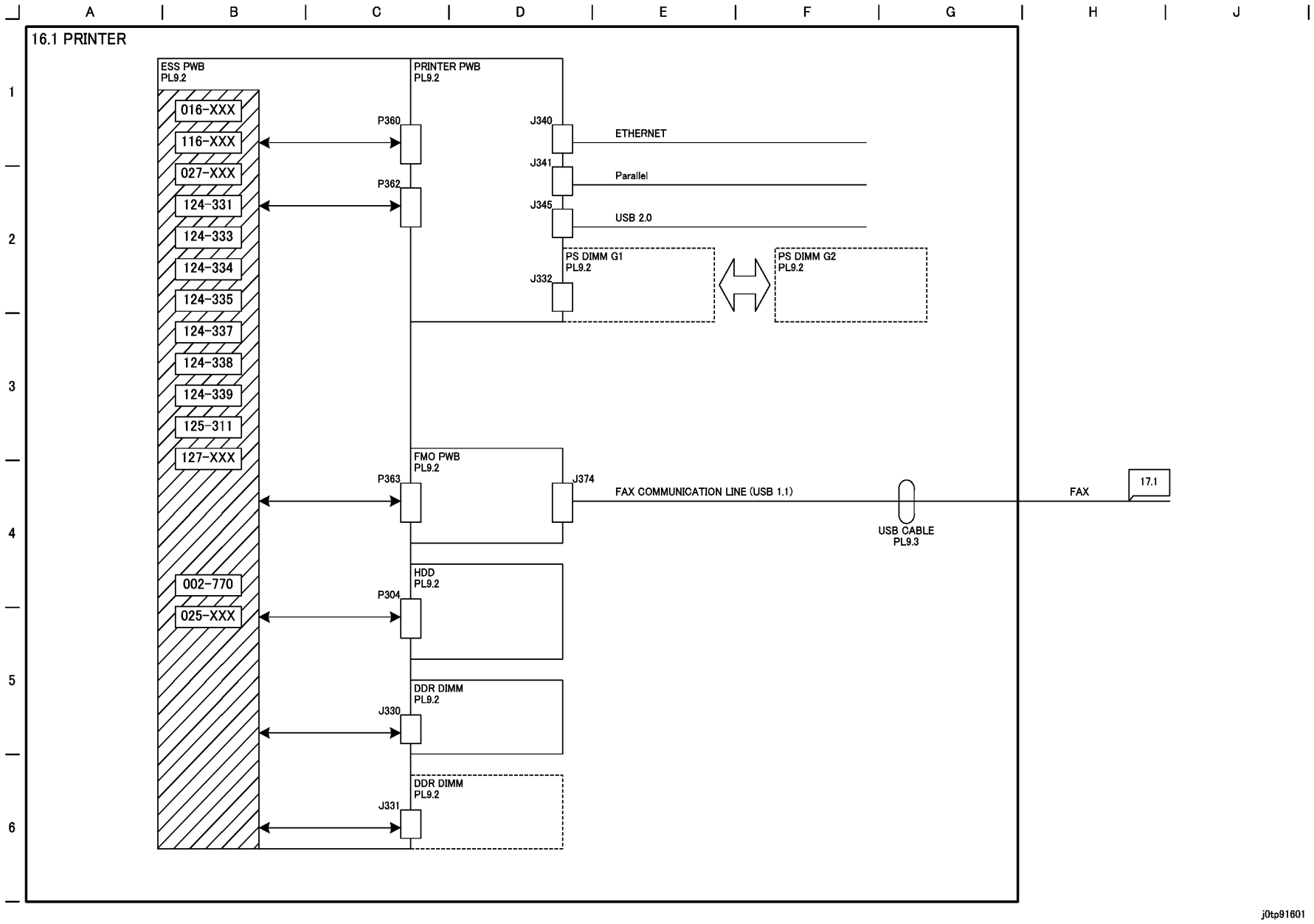


Figure 1 PRINTER (j0tp91601)

Chain 17 FAX

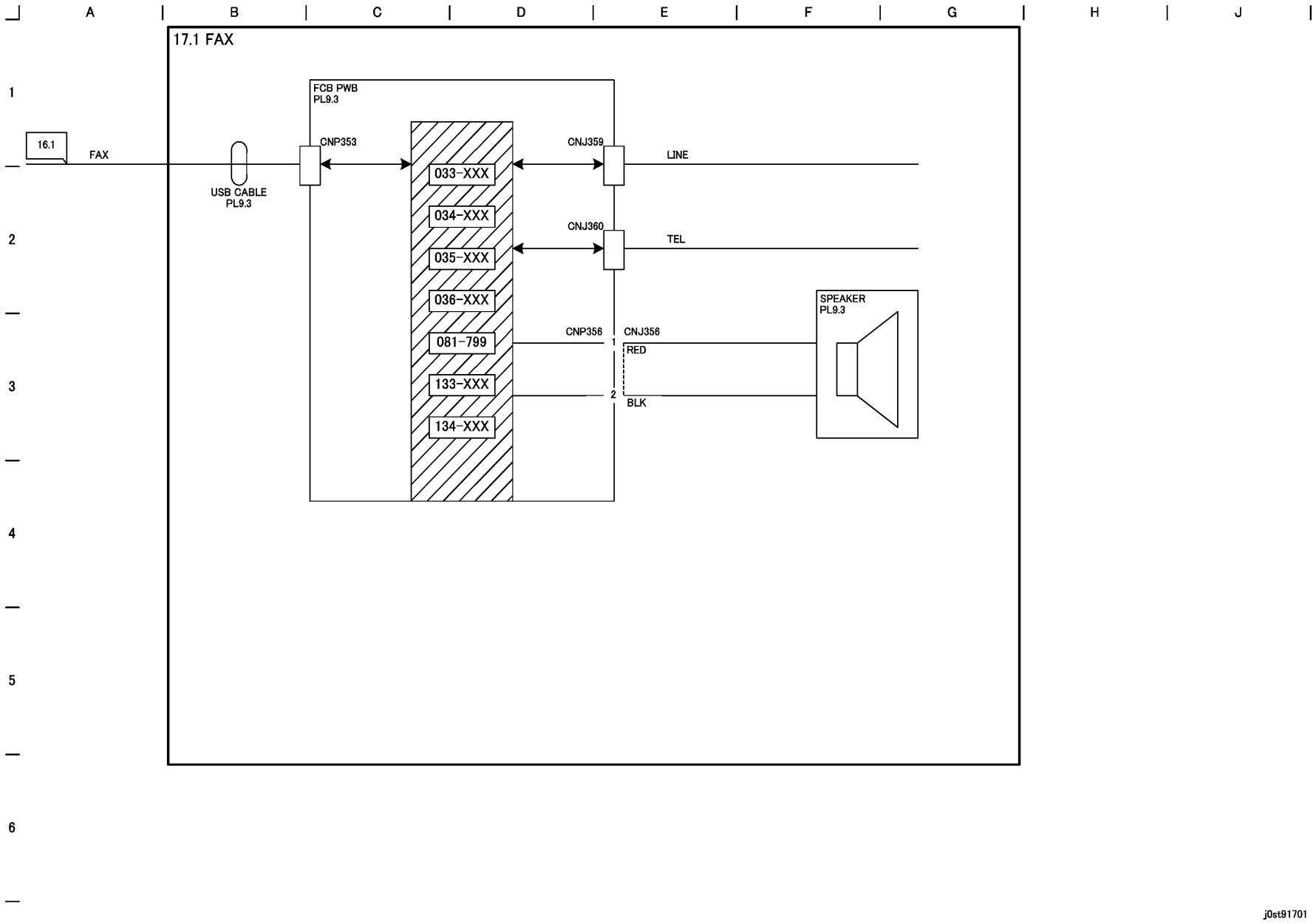


Figure 1 FAX (j0st91701)

8 Accessories

8.1 Fax Kit

Product Code

- XC: EL200333
- EU: EL200334

Packaged Accessories (Figure 1)

1. Fax Box Assembly: 1
2. FMO PWB: 1
3. Screws (FMO PWB): 2
4. Screws (Fax Box): 4
5. Data Cable: 1
6. Line Cable (XC Only): 1
7. Clamps: 3
8. Wire Harness: 1

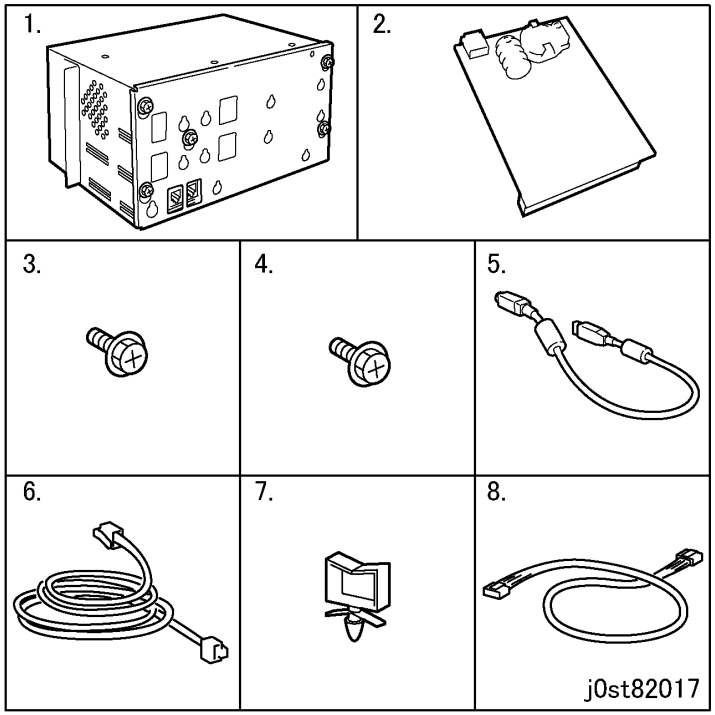


Figure 1 Packaged Accessories (j0st82017)

WARNING

Switch off the machine and disconnect the power cord.

CAUTION

To prevent data loss when the power switch is turned off, please note the following.

FAX Models

Check that the "Stored Documents" lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that "Ready to Print/Send" is displayed on the Control Panel display.

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.

Installation Procedure

1. For the DADF machine, disconnect the IIT-DADF Cable. (Figure 2)
   1. Disconnect the IIT-DADF Cable.

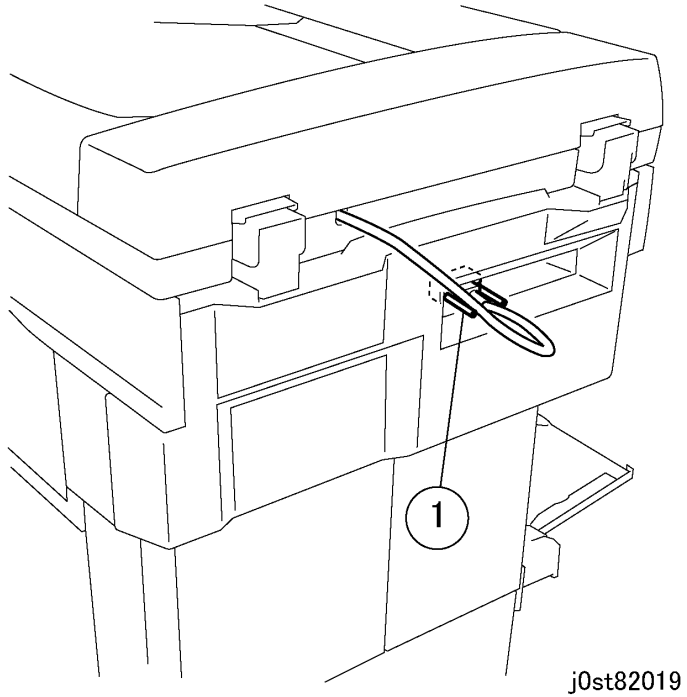


Figure 2 Disconnecting the cable (j0st82019)

2. Remove the Rear Upper Cover. (Figure 3)
    1. Remove the screws (x4).
    2. Remove the Rear Upper Cover.

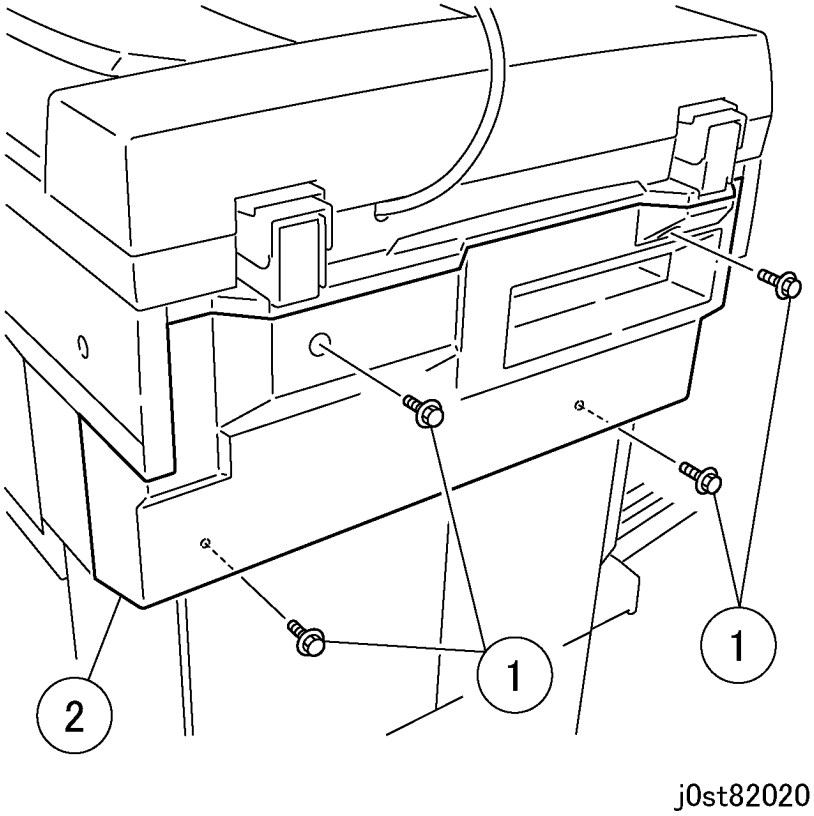


Figure 3 Removing the Rear Upper Cover (j0st82020)

3. Remove the ESS Cover Assembly. (Figure 4)
    1. Loosen the screws (x2).
    2. Remove the ESS Cover Assembly.

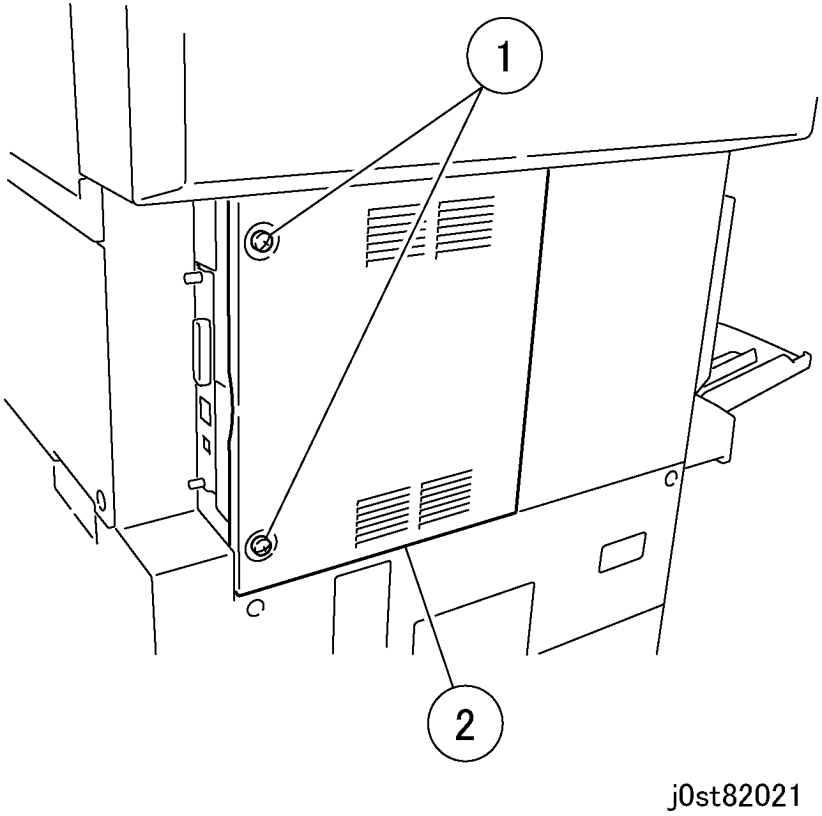


Figure 4 Removing the ESS Cover Assembly (j0st82021)

4. Install the FMO PWB. (Figure 5)
    1. Install the FMO PWB.
    2. Tighten the screws (x2).

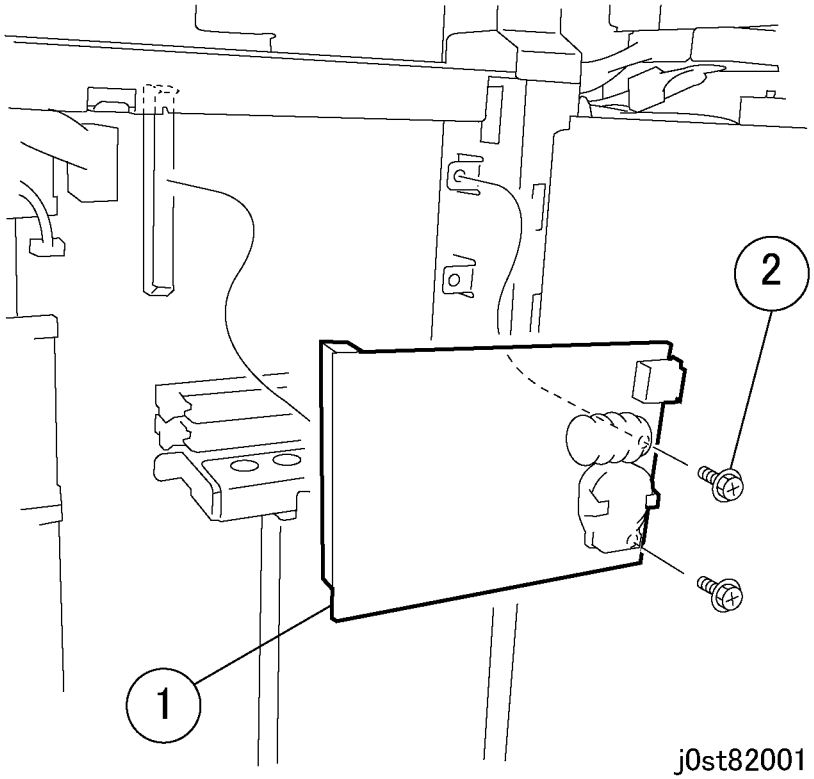


Figure 5 Installing the FMO PWB (j0st82001)

5. Install the Fax Box. (Figure 6)
    1. Install the Fax Box Assembly.
    2. Tighten the screws (x4).

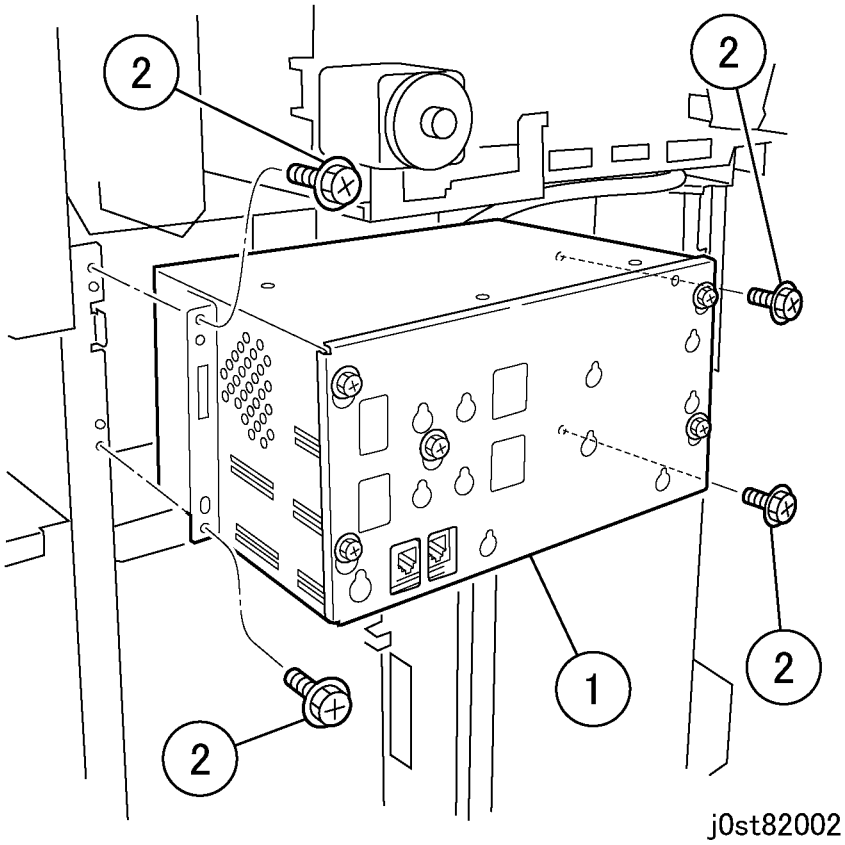


Figure 6 Installing the Fax Box (j0st82002)

6. Remove the Rear Upper Cover Blind Board. (Figure 7)
   1. Remove the Blind Board.

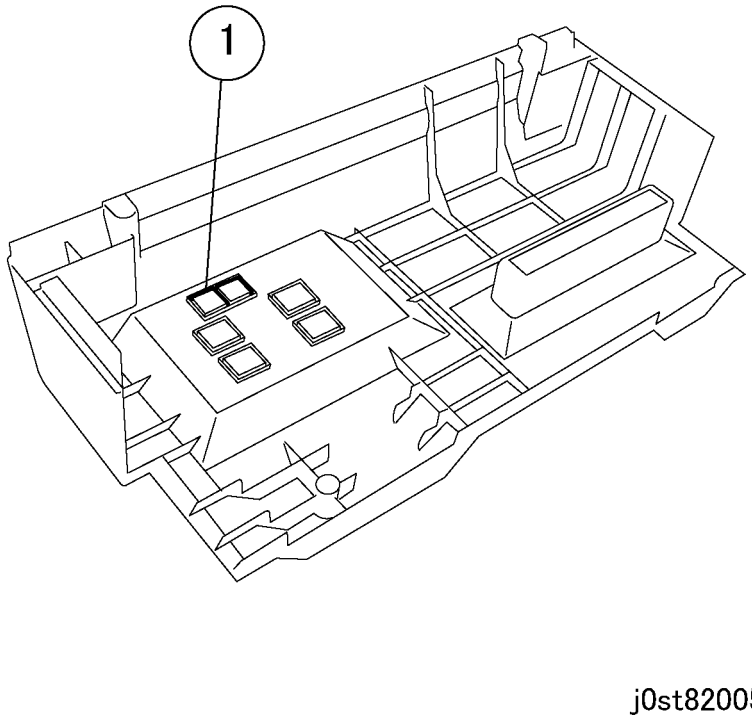


Figure 7 Removing the Blind Board (j0st82005)

7. Remove the Right Upper Cover. (Figure 8)
   1. Remove the screws (x2).
   2. Remove the Right Upper Cover.

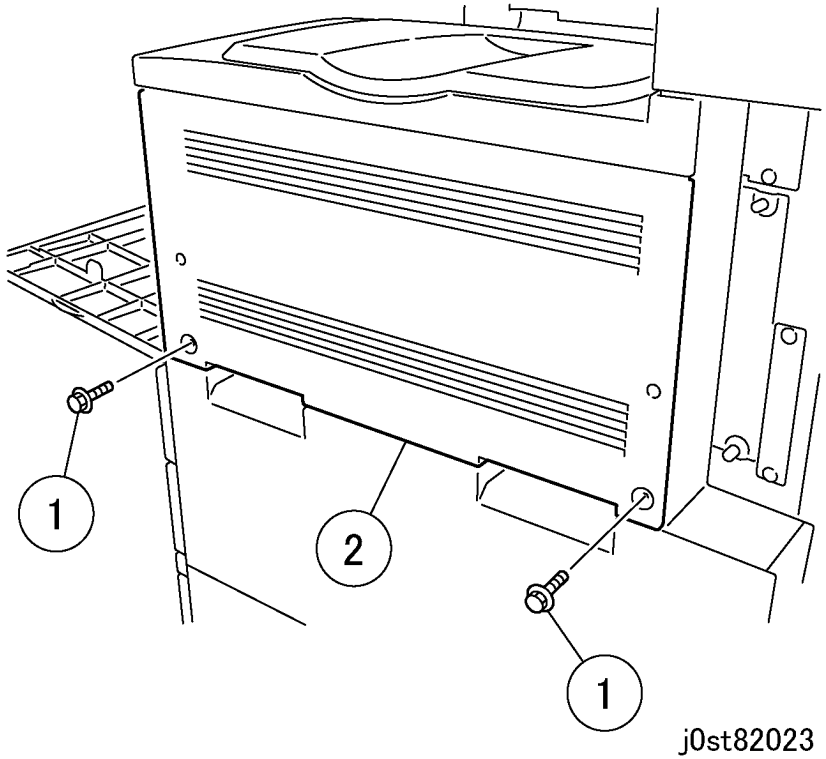


Figure 8 Removing the Right Upper Cover (j0st82023)

8. Remove the ESS Right Cover. (Figure 9)
    1. Remove the ESS Right Cover.

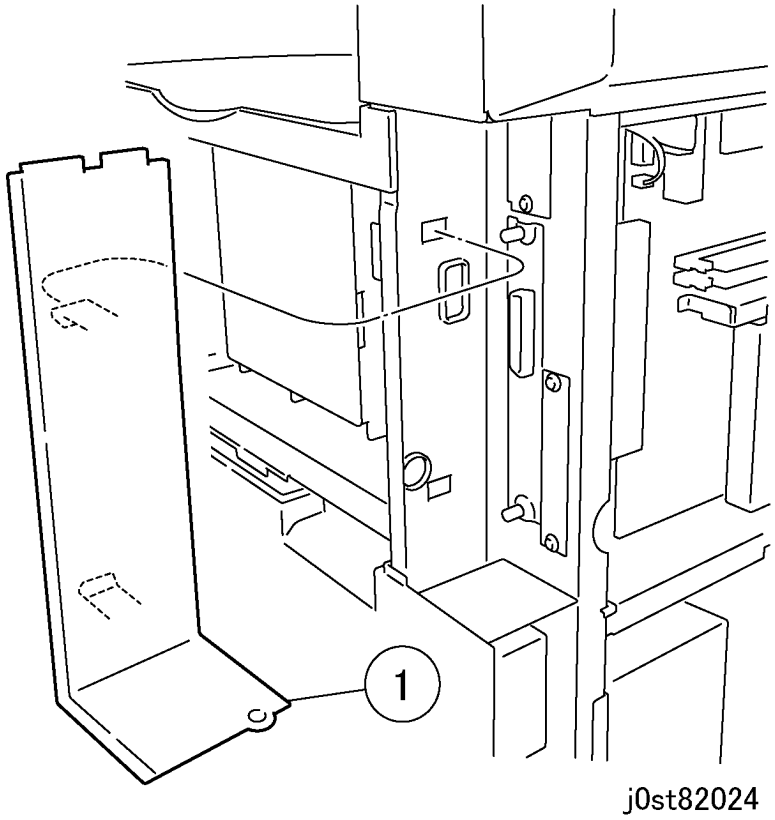


Figure 9 Removing the ESS Right Cover (j0st82024)

9. Connect the Wire Harness. (Figure 10)
    1. Attach the clamps (x3).
    2. Install the Wire Harness.
    3. Connect the connector.
    4. Connect the connector.

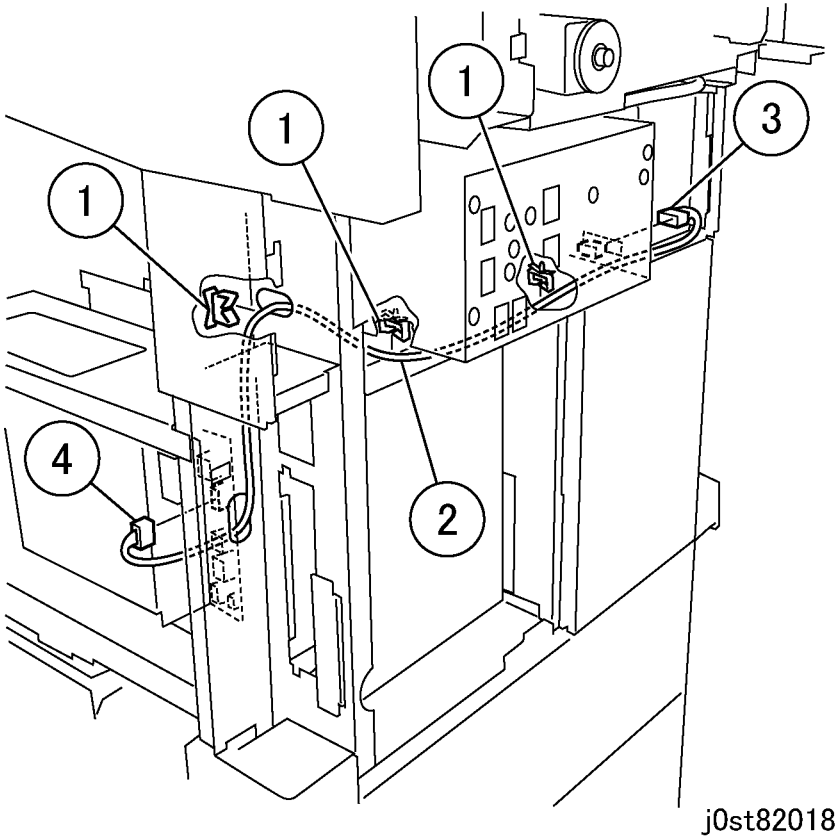


Figure 10 Connecting the Wire Harness (j0st82018)

10. Connect the Data Cable. (Figure 11)
    1. Connect the Data Cable.

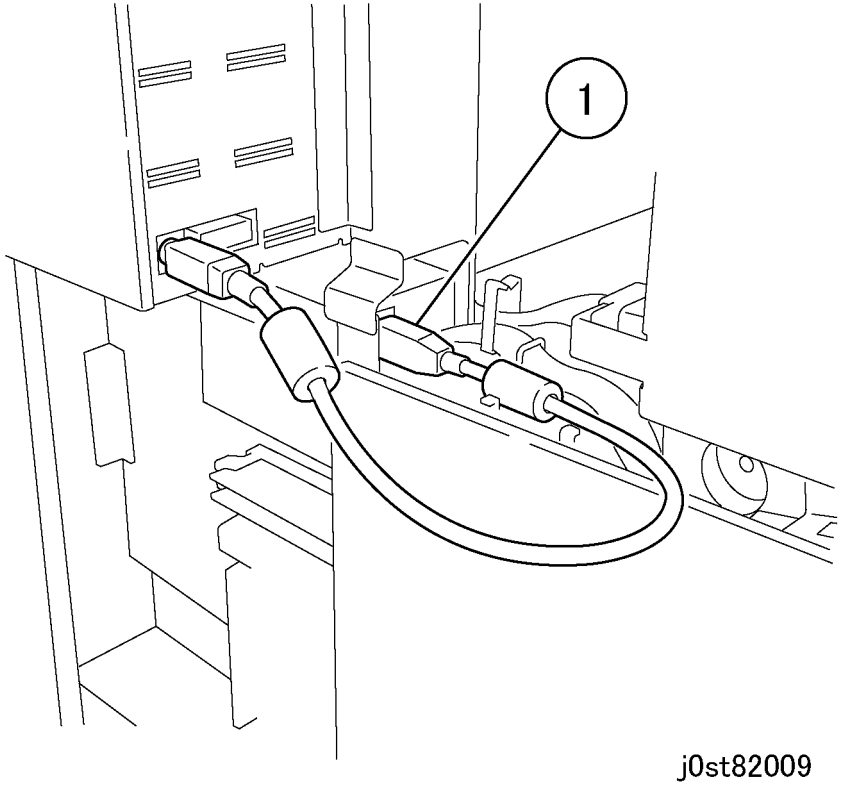


Figure 11 Connecting the Data Cable (j0st80209)

11. Restore the machine to the original state.

12. Connect the Line Cable. (Figure 12)
    1. Connect the Line Cable.

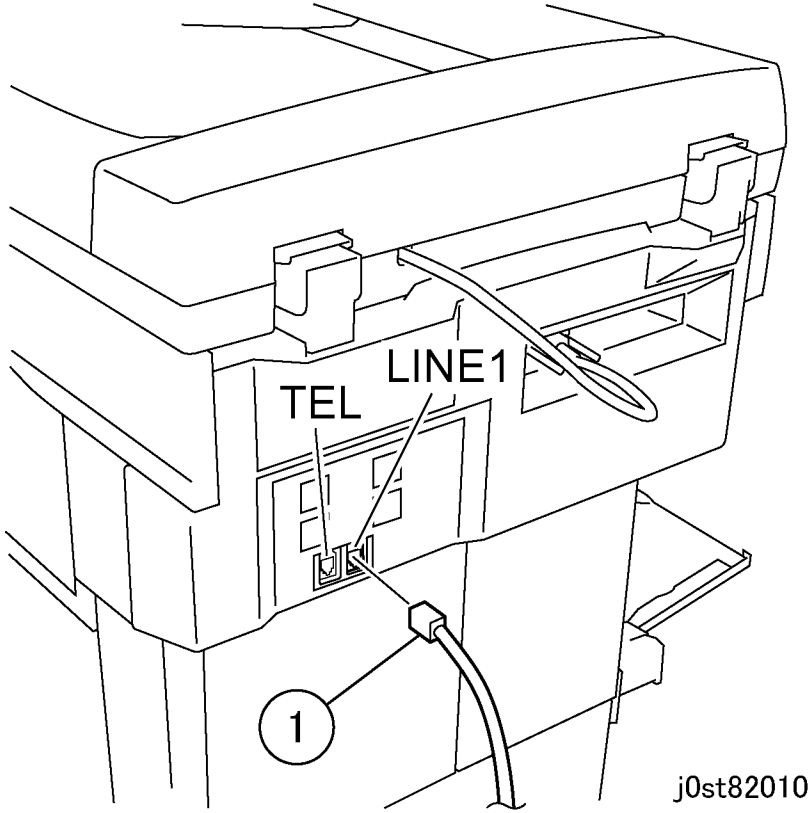


Figure 12 Connecting the Line Cable (j0st82010)

13. Plug in the machine and turn on the power.
14. Perform the communication system settings

    Set the Date/Time

    Set the Local Name, Company Logo, ID, Dial Type, Line Type

    - Set each of the above item.

      Please do not include spaces and pauses when registering the remote Fax No. Sending cannot be done if the Telephone No. information cannot be recognized.
    - Set up the Date/Time.

      1. Date, 2. Time
    - Set the Local Name, Company Logo, ID, Dial Type, Line Type

      1. Local Name, 2. Company Logo, 3. ID, 4, Dial Type, 5. Line Type
    - Set according to the line connection.
15. Check that no errors are displayed.

    [Function Check]
16. Paper Feed Check

    1.Make a note of the figures on the Copy Meter (Count reading).

    Select Meter Check on the Menu screen.

    2.Make 3 copies of an A3 original from each tray.

    3.Check that there is no jammed, folded, wrinkled, or multi-fed paper.

    4.Check the functions of the Auto Paper/Reduce/Enlarge Auto %.
17. Copy Quality Check

    Check the following items:

    1.The Copy density is appropriate.

    2.The characters can be read clearly and are not deleted or distorted.

    3.The blank areas have no background.

    4.There are no black spots and streaks on the copy.
18. Check the Communication Mode (Fax)

    Load A3 or B4 original in the DADF.

    Perform communication tests with other Fax M/C and check the following:

    Auto Receive

    The machine automatically receives the data sent from other Fax M/C.

    [Others]
19. Printing of various reports/lists

    Printing of various reports/lists

    Print Report Job → Settings List → Address Book
20. Other Checking

    There are no abnormalities such as strange noise or odor when the machine is running.

    Check that the copy meter is counting up correctly.

8.2 Foreign Interface

Accessory IF Kit (Product Code: EL200352)

1. Accessory IF PWB: 1

Foreign Interface (Third Vendor)

1. Foreign Interface (Third Vendor)
2. Fastener Tape: 3

WARNING

Switch off the machine and disconnect the power cord.

CAUTION

To prevent data loss when the power switch is turned off, please note the following.

FAX Models

Check that the “Stored Documents” lamp is not on, and press the Job Status button to ensure that there are no jobs in progress.

Printer Models

Check that “Ready to Print/Send” is displayed on the Control Panel display.

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.

1. Remove the Panel. (Figure 1)
   1. Remove the screws (x2).
   2. Remove the Panel.

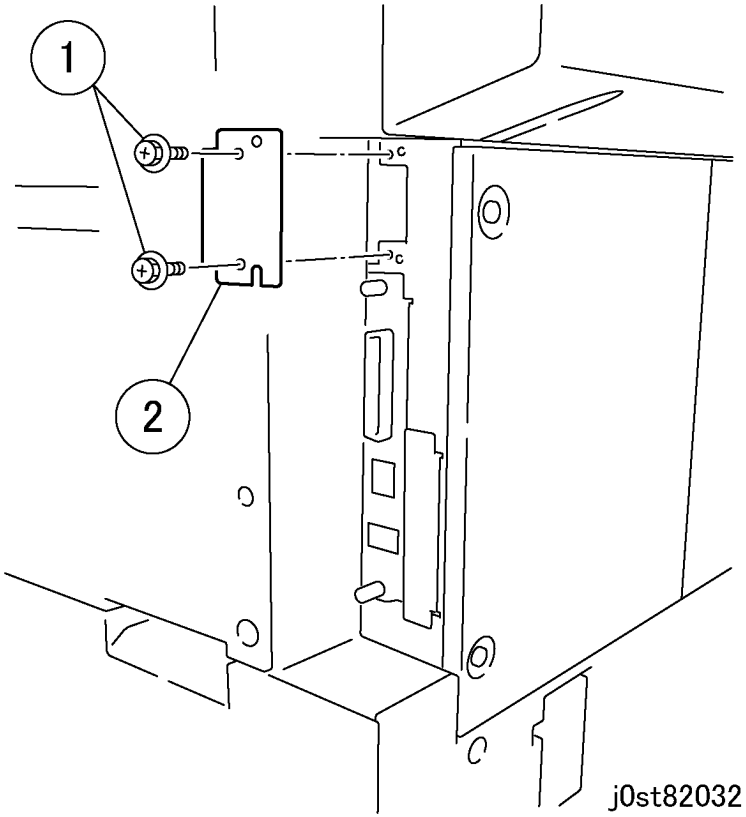


Figure 1 Removing the Panel (j0st82032)

2. Use the screws (x2) removed in Step 1 to install the Accessory IF PWB. (Figure 2)
    1. Insert the Accessory IF PWB.
    2. Secure with screws (x2).

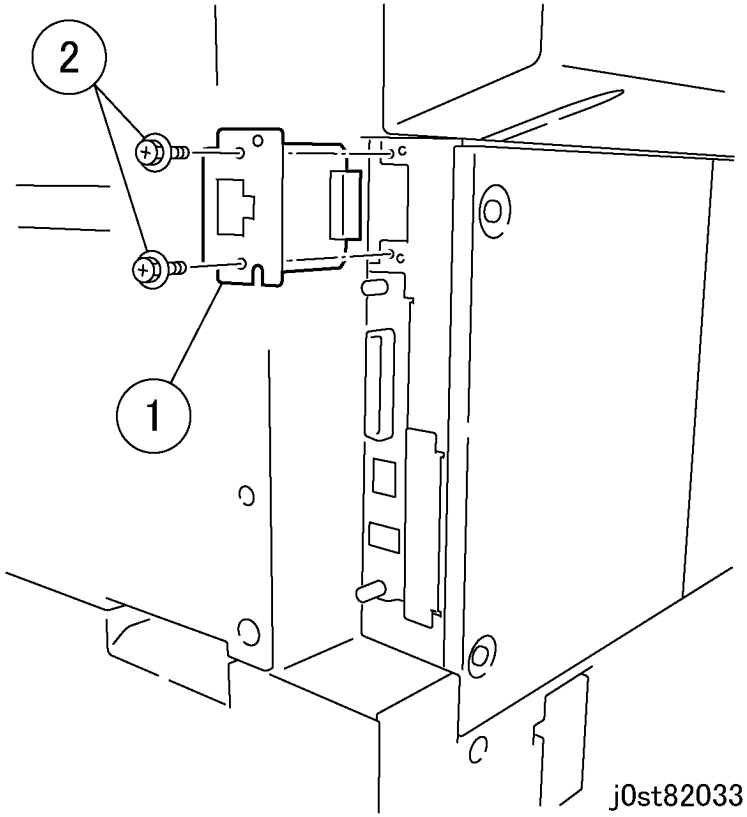


Figure 2 Installing the Accessory IF PWB (j0st82033)

3. Attach the Fasteners to the Foreign Interface. (Figure 3)
    1. Attach the Fasteners (x3).

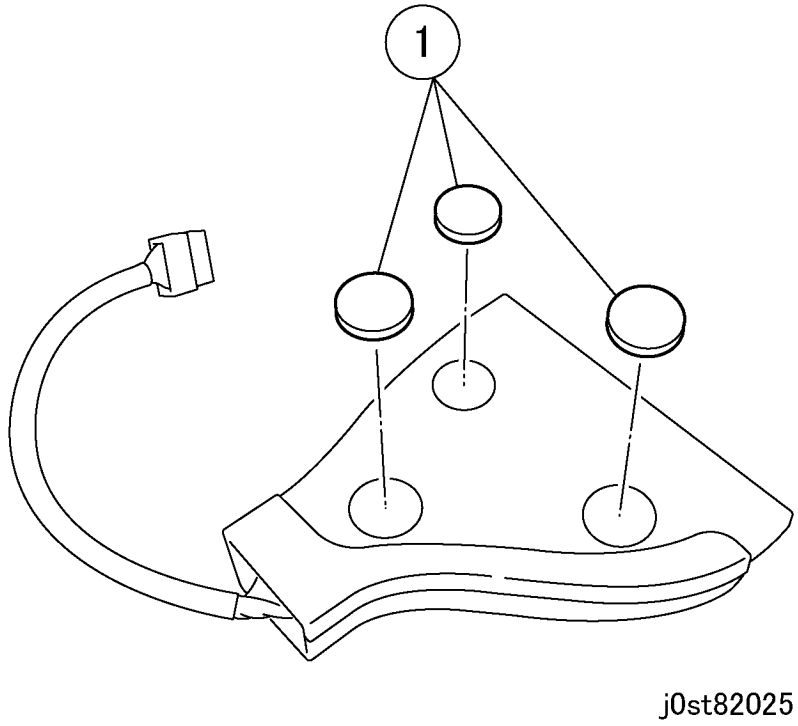


Figure 3 Attaching the Fasteners (j0st82025)

4. Connect the Foreign Interface to the Accessory IF PWB. (Figure 4)
    1. Attach the Foreign Interface.
    2. Connect the Foreign Interface.

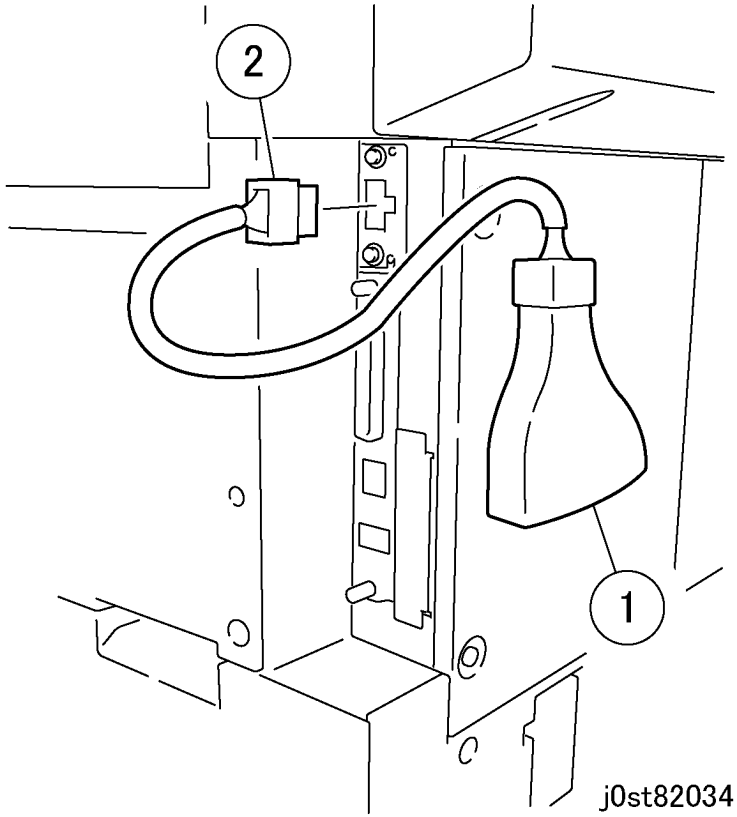


Figure 4 Connecting the Foreign Interface (j0st82034)

5. Enter Diag. mode. Change the value of 850-001 from 0 to 1.